



# Administrative Package Cover Page

**This file contains the following documents:**

1. Summary of application (in plain language)
    - English
    - Alternative Language (Spanish)
  2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
    - English
    - Alternative Language (Spanish)
  3. Application materials
- 



# Portada de Paquete Administrativo

**Este archivo contiene los siguientes documentos:**

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
  - Inglés
  - Idioma alternativo (español)
2. Primer aviso (NORI, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
  - Inglés
  - Idioma alternativo (español)
3. Solicitud original

## N. Plain Language Summary

Complete the plain language summary template below.

### Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) Phase I MS4 Permit Applications

#### English Template for TPDES New/Renewal/Amendment Applications

##### Phase I MS4 Stormwater

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.*

The City of Irving (CN 600243471) owns and operates a Municipal Separate Storm Sewer System (MS4). The City of Irving MS4 conveys stormwater from the City of Irving to surface water in the state. The City of Irving MS4 is located within the corporate boundary of the City Irving, in Dallas County, Texas 75014, 75015, 75016, 75017, 75038, 75039, 75060, 75061, 75062, 75063 (RN104011846).

The City of Irving MS4 discharges stormwater and certain non-stormwater discharges on a variable and intermittent basis. Discharges from the MS4 are expected to contain bacteria, sediments, nutrients, hazardous metals, oil, and grease. Stormwater discharges from the MS4 are managed with best management practices through the implementation of a Stormwater Management Program (SWMP). Examples of best management practices implemented by the City of Irving include but are not limited to: wet weather screening, dry weather screening, public outreach, construction site inspections, street sweeping, inflow and infiltration studies of sanitary sewer system, video inspection of sanitary sewer system, and MS4 maintenance.

**PLANTILLA EN ESPAÑOL PARA SOLICITUDES  
NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES FASE I MS4 AGUAS PLUVIALES**

*El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales exigibles de la solicitud de permiso.*

El MS4 de la Ciudad de Irving vierte aguas pluviales y ciertas descargas de aguas no pluviales de forma variable e esporádicamente. Se espera que las descargas de la MS4 contengan bacterias, sedimentos, nutrientes, metales peligrosos, aceite y grasa. Las descargas de aguas pluviales de MS4 se manejan con las mejores prácticas de manejo a través de la implementación de un Programa de Manejo de Aguas Pluviales (por sus siglas en inglés, SWMP). Ejemplos de las mejores prácticas de gestión implementadas por la Ciudad de Irving incluyen, pero no se limitan a: detección de clima húmedo, detección de clima seco, difusión pública, inspecciones de lugares de construcción, barrido de calles, estudios de entrada e infiltración del sistema de alcantarillado y saneamiento, inspección por video del sistema de alcantarillado y saneamiento, y mantenimiento del MS4.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



## NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT RENEWAL

**PERMIT NO. WQ0004691000**

**APPLICATION.** City of Irving, 825 West Irving Boulevard, Irving, Texas 75060; Dallas County Flood Control District 1, 210 Highland Park Drive, Irving, Texas 75061; Dallas County Utility & Reclamation District, 850 Las Colinas Boulevard East, Irving, Texas 75039; Irving Flood Control District Section 1, P.O. Box 140035, Irving, Texas 75014; Irving Flood Control District Section 3, 850 Las Colinas Boulevard East, Irving, Texas 75039; have applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004691000 (EPA I.D. No. TXS001301) to authorize discharges from the municipal separate storm sewer system located within the corporate boundary of the City of Irving, except agricultural lands, in Dallas County, Texas 75038, 75039, 75050, and 75060-75063. The discharge route is from the municipal separate storm sewer system to the surface water in the State. TCEQ received this application on June 4, 2024. The permit application will be available for viewing and copying at Irving City Hall, 825 West Irving Boulevard, Irving, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**ALTERNATIVE LANGUAGE NOTICE.** Alternative language notice in Spanish is available at: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**ADDITIONAL NOTICE.** TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

**PUBLIC COMMENT / PUBLIC MEETING.** You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public



interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

**OPPORTUNITY FOR A CONTESTED CASE HEARING.** After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application.** If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

**TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST:** your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

**MAILING LIST.** If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at [www.tceq.texas.gov/goto/cid](http://www.tceq.texas.gov/goto/cid). Search the database using the permit number for this application, which is provided at the top of this notice.

**AGENCY CONTACTS AND INFORMATION.** All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at [www.tceq.texas.gov/goto/pep](http://www.tceq.texas.gov/goto/pep). Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Irving, Dallas County Flood Control District 1, Dallas County Utility & Reclamation District, Irving Flood Control District Section 1, and Irving Flood Control District Section 3 at the address stated above or by calling Mr. Cody Cash, GIT, CFM, MDU Programs Supervisor, City of Irving, at 972-721-4760.

Issuance Date: July 16, 2024

# Comisión de Calidad Ambiental del Estado de Texas



## AVISO DE RECIBO DE LA SOLICITUD E INTENCION DE OBTENER UN PERMISO PARA EL SISTEMA SEPARADO MUNICIPAL DE AGUAS PLUVIALES (MS4) RENOVACION

**PERMISO NO. WQ0004691000**

**SOLICITUD.** Ciudad de Irving, 825 West Irving Boulevard, Irving, Texas 75060; Distrito 1 de Control de Inundaciones del Condado de Dallas, 210 Highland Park Drive, Irving, Texas 75061; Distrito de Utilidades y Recuperación del Condado de Dallas, 850 Las Colinas Boulevard East, Irving, Texas 75039; Sección 1 del Distrito de Control de Inundaciones de Irving, P.O. Box 140035, Irving, Texas 75014; Sección 3 del Distrito de Control de Inundaciones de Irving, 850 Las Colinas Boulevard East, Irving, Texas 75039; han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas in inglés) para renovar el Permiso No. WQ0004691000 del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) (EPA I.D. No. TXS001301) para autorizar las descargas del sistema separado municipal de aguas pluviales ubicada dentro de los límites corporativos de la Ciudad de Irving, a excepción de los terrenos de agricultura, en el Condado de Dallas, Texas 75038, 75039, 75050, y 75060-75063. La ruta de descarga es del sistema individual municipal de aguas pluviales a las aguas superficiales del Estado. TCEQ recibió esta solicitud el día 4 de junio del 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Irving City Hall, 825 West Irving Boulevard, Irving, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**AVISO DE IDIOMA ALTERNATIVO.** El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

**COMENTARIO PUBLICO / REUNION PUBLICA.** Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todos los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos

siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en [www.tceq.texas.gov/goto/cid](http://www.tceq.texas.gov/goto/cid). Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

**CONTACTOS E INFORMACIÓN A LA AGENCIA.** Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <https://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional a la Ciudad de Irving, Distrito 1 de Control de Inundaciones del Condado de Dallas, Distrito de Utilidades y Recuperación del Condado de Dallas, Sección 1 del Distrito de Control de Inundaciones de Irving, y Sección 3 del Distrito de Control de Inundaciones de Irving a la dirección indicada arriba o llamando a Sr. Cody Cash, GIT, CFM, Ciudad de Irving, al 972-721-4760.

Fecha de emisión el 16 de julio de 2024

**APPLICATION FOR PERMIT TO DISCHARGE  
FROM A LARGE OR MEDIUM (PHASE 1)  
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)  
INTO SURFACE WATER IN THE STATE**



**A. Application fee payment**

Did you know you can pay the application fee online?

- (a) Go to <https://www3.tceq.texas.gov/epay/>
- (b) Select Fee Type: Individual Permit, MS4 Permit - Phase I
- (c) Select Application Type: New, Major Amendment, Minor Amendment (without renewal) or Renewal

The application fee for new, major amendment and renewal applications of the TPDES permit for this activity is \$2,000.00.

The application fee for minor amendment (without renewal of the permit term) of the TPDES permit for this activity is \$100.00

For new and major applications an additional fee of \$50.00 is required to be applied toward the cost of providing public notice. For renewal applications the fee is \$15.00.

You can also send the application fee by regular mail. A check or money order should then be made payable to the Texas Commission on Environmental Quality and must be sent under separate cover to:

Texas Commission on Environmental Quality  
Cashier's Office (MC 214)  
P.O. Box 13088  
Austin, Texas 78711-3088

**B. Permittee (applicant)**

- (a) If the applicant is currently a customer with TCEQ, provide the Customer Number (CN)? Search for your CN at:  
<http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: CN600243471

- (b) Provide the Legal Name of the entity (applicant) applying for this permit:

The City of Irving

- (c) Provide the name and title of the person signing the application:

(The person must be an executive official meeting signatory requirements in TAC §305.44(a).)

Prefix: Mr.  
(e.g, Mr., Ms., Miss)

First/Last Name: Chris Hillman

Suffix: \_\_\_\_\_

Title: City Manager

Credential: \_\_\_\_\_





- (d) Provide the applicant's mailing address as recognized by the US Postal Service: You may verify the address at:  
<http://zip4.usps.com/zip4/welcome.jsp>

Street Address or P.O. Box: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ Irving \_\_\_\_\_  
State: \_\_\_\_\_ Texas \_\_\_\_\_  
ZIP Code: \_\_\_\_\_ 75060 \_\_\_\_\_

Electronic Contact Information:  
Phone No.: \_\_\_\_\_ 972-721-2577 \_\_\_\_\_  
Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_  
E-mail Address: \_\_\_\_\_ chillman@cityofirving.org \_\_\_\_\_

- (e) Indicate the type of Customer:

City Government

- (f) Number of Employees:

0-20;          21-100;          101-250;          251-500; or **501 or higher**

**C. Co-applicants(s) – Please See Attachment**

**Note: This section may be copied and attached to the application if there are additional co-applicants. Indicate if there are additional co-applicants:**

**D. Billing Address**

The operator is responsible for paying the annual 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.

- (a) Is the billing address the same for the permittee or co-permittee(s)?

Yes

**No**

If the answer is No, please indicate the billing address for each party responsible to receive billing. – **Please See attachment for co-permittees**

Prefix: \_\_\_\_\_  
(e.g., Mr., Ms., Miss)  
First/Last Name: Suffix: \_\_\_\_\_ Capital Improvement Program Att: MDU  
Title: \_\_\_\_\_  
Credential: \_\_\_\_\_  
Organization Name: \_\_\_\_\_ Capital Improvement Program \_\_\_\_\_

Street Address or P.O. Box: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ Irving \_\_\_\_\_  
State: \_\_\_\_\_ Tx \_\_\_\_\_



ZIP: \_\_\_\_\_ 75060 \_\_\_\_\_

Electronic Contact Information:

Phone No.: \_\_\_\_\_ 972-721-2611 \_\_\_\_\_

Extension: \_\_\_\_\_

Fax No: \_\_\_\_\_

Email address: \_\_\_\_\_ drainage@cityofirving.org \_\_\_\_\_

**E. Regulated Entity (RE) information on project or site**

- (a) Has TCEQ issued a Regulated Entity Reference Number (RN) for the regulated MS4?

☒ Yes

No

Provide the RN?

RN: \_\_\_\_\_ 106048747 \_\_\_\_\_

TCEQ will assign the RN number after the application is submitted

- (b) Provide the name that is used to identify the MS4 (Regulated Entity):

\_\_\_\_\_ City of Irving MS4 \_\_\_\_\_

(Example: City of xxx MS4)

- (c) Provide the name of the county where the largest residential population exists within the regulated MS4 boundaries? \_\_\_\_\_ Dallas \_\_\_\_\_

- (d) Provide the latitude and longitude of the approximate center of the regulated MS4?

Latitude: N \_\_\_\_\_ 32 48 50.88019 \_\_\_\_\_

Longitude: W \_\_\_\_\_ 96 57 19.94572 \_\_\_\_\_

- (e) In your own words, briefly describe the primary business of the Regulated Entity (Do not write the SIC and NAICS code description.):  
\_\_\_\_\_ Municipality \_\_\_\_\_

**F. Application contact**

- (a) If TCEQ needs additional information regarding this application, who should be contacted?

Prefix: \_\_\_\_\_ Mr. \_\_\_\_\_ (e.g., Mr., Ms., Miss)

First/Last Name: \_\_\_\_\_ Cody Cash \_\_\_\_\_

Suffix: \_\_\_\_\_

Title: \_\_\_\_\_ MDU Programs Supervisor \_\_\_\_\_

Credential: \_\_\_\_\_ GIT, CFM \_\_\_\_\_

Organization Name: \_\_\_\_\_ City of Irving \_\_\_\_\_

Street Address or P.O. Box: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_

Internal Routing (Mail Code, Etc.): \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

State: \_\_\_\_\_ Tx \_\_\_\_\_

ZIP: \_\_\_\_\_ 75060 \_\_\_\_\_

Electronic Contact Information:

Phone No.: \_\_\_\_\_ 972-721-4760 \_\_\_\_\_



Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_  
Email address: \_\_\_\_\_ ccash@cityofirving.org \_\_\_\_\_

**G. Application contact (technical)**

- (a) If TCEQ needs additional technical information to this application, who should be contacted? The person must be familiar with the MS4 and the requirements of any previously issued storm water discharge permit.

Prefix: \_\_\_\_\_ Mr. \_\_\_\_\_ (e.g., Mr., Ms., Miss)  
First/Last Name: \_\_\_\_\_ Cody Cash \_\_\_\_\_  
Suffix: \_\_\_\_\_  
Title: \_\_\_\_\_ MDU Programs Supervisor \_\_\_\_\_  
Credential: \_\_\_\_\_ GIT, CFM \_\_\_\_\_  
Organization Name: \_\_\_\_\_ City of Irving \_\_\_\_\_  
Street Address or P.O. Box: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_ Irving \_\_\_\_\_  
State: \_\_\_\_\_ Tx \_\_\_\_\_  
ZIP: \_\_\_\_\_ 75060 \_\_\_\_\_

Electronic Contact Information:  
Phone No.: \_\_\_\_\_ 972-721-4760 \_\_\_\_\_  
Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_  
Email address: \_\_\_\_\_ ccash@cityofirving.org \_\_\_\_\_

**H. DMR contact -**

- (a) Contact Responsible for Discharge Monitoring Report (DMR) forms (EPA 3320-1). Provide the name of the person and their complete mailing address delegated to receive and submit DMR Forms.

Prefix : \_\_\_\_\_ N/A \_\_\_\_\_  
(e.g., Mr., Ms., Miss)  
First/Last Name: \_\_\_\_\_  
Suffix: \_\_\_\_\_  
Title: \_\_\_\_\_  
Credential: \_\_\_\_\_  
Organization Name: \_\_\_\_\_  
Street Address or P.O. Box: \_\_\_\_\_  
Internal Routing (Mail Code, Etc.): \_\_\_\_\_  
City: \_\_\_\_\_  
State: \_\_\_\_\_  
ZIP: \_\_\_\_\_

Electronic Contact Information:  
Phone No.: \_\_\_\_\_  
Extension: \_\_\_\_\_  
Fax No.: \_\_\_\_\_  
Email address: \_\_\_\_\_



## I. Public participation

### (a) Public notice contact:

Provide the name of the person that will be identified as the notice contact in the two notices that are mailed out and published as part of the permitting process? The person may be contacted by the public to answer general and specific questions about all aspects of the permit application. If the mailing address is a P.O. Box, insert the P.O. Box number within the space provided for the address.

Prefix: \_\_\_\_\_ Mr. \_\_\_\_\_ (e.g., Mr., Ms., Miss)

First/Last Name: \_\_\_\_\_ Cody Cash \_\_\_\_\_

Suffix: \_\_\_\_\_

Title: \_\_\_\_\_ MDU Programs Supervisor \_\_\_\_\_

Credential: \_\_\_\_\_ GIT, CFM \_\_\_\_\_

Organization Name: \_\_\_\_\_ City of Irving \_\_\_\_\_

Street Address or P.O. Box: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_

Internal Routing (Mail Code, Etc.): \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

State: \_\_\_\_\_ Tx \_\_\_\_\_

ZIP: \_\_\_\_\_ 75060 \_\_\_\_\_

Electronic Contact Information: \_\_\_\_\_

Phone No.: \_\_\_\_\_ 972-721-4760 \_\_\_\_\_

Extension: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Email address: \_\_\_\_\_ ccash@cityofirving.org \_\_\_\_\_

### (b) Application Viewing Information:

Provide the name and location of the public location where copies of the application and storm water management program (SWMP), as well as the draft permit and fact sheet, may be viewed?

Name of Public Place: \_\_\_\_\_ Irving City Hall - 2nd Floor Capital Improvement Program Department \_\_\_\_\_

Street Address: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

County: \_\_\_\_\_ Dallas \_\_\_\_\_

State: \_\_\_\_\_ Texas \_\_\_\_\_

ZIP code: \_\_\_\_\_ 75060 \_\_\_\_\_

Preferred method for receiving public notice package(s) and instructions to publish:

E-mail: E-mail address \_\_\_\_\_ ccash@cityofirving.org \_\_\_\_\_

Fax: Fax number: \_\_\_\_\_

Overnight/Priority mail: (self addressed, prepaid envelope required)

Regular Mail:

Street Address: \_\_\_\_\_ 825 W Irving Blvd \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

County: \_\_\_\_\_ Dallas \_\_\_\_\_

State: \_\_\_\_\_ Texas \_\_\_\_\_

ZIP code: \_\_\_\_\_ 75060 \_\_\_\_\_





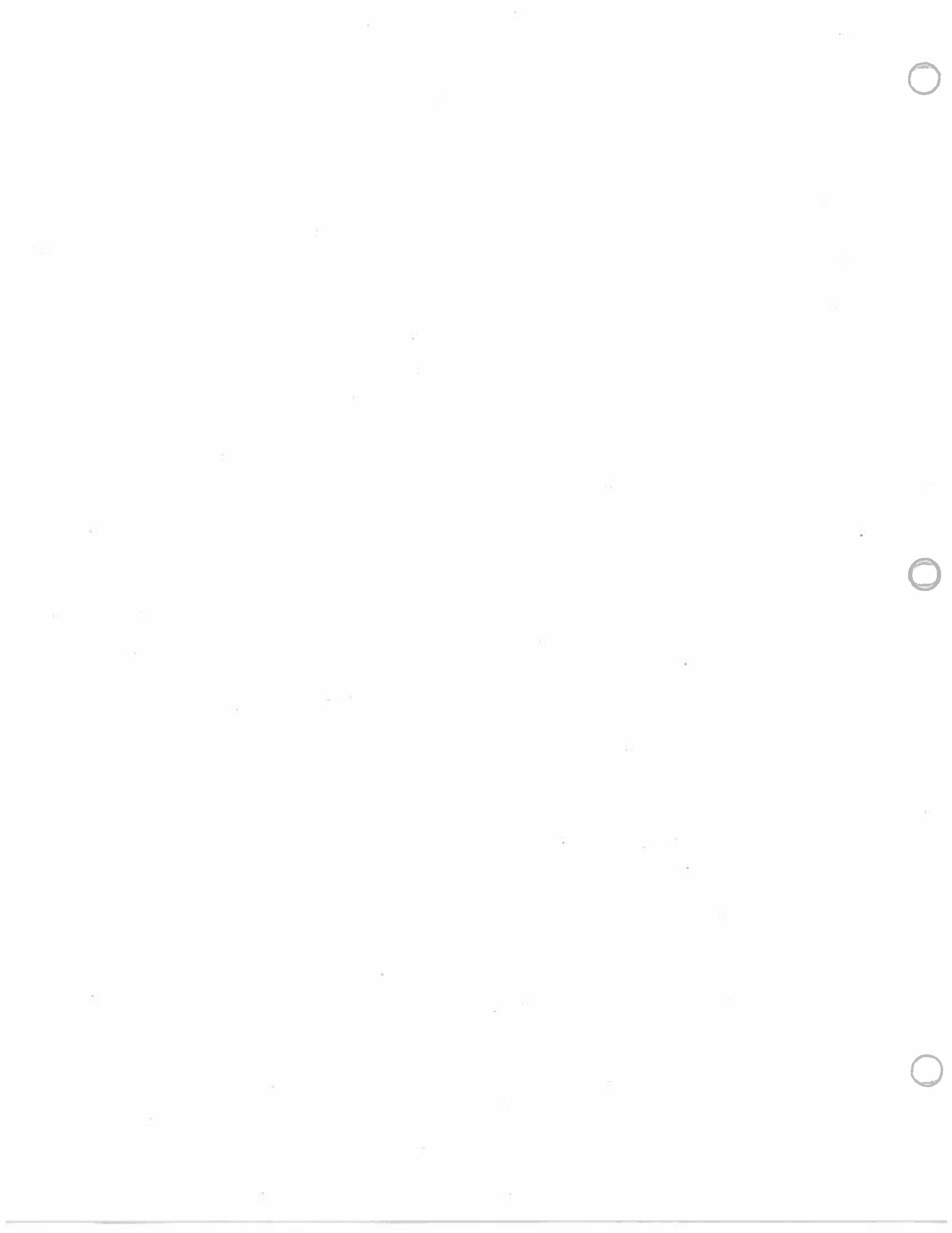
(c) Bilingual Notice Requirements:

Bilingual notice may be required for new permit applications, major amendment applications and renewal applications, (not applicable for minor amendment or minor modification applications). If an elementary school or middle school within the regulated area of the MS4 offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, triggers a bilingual education program to apply to an entire school district should the requisite alternative language speaking student population exist. However, there may not be any bilingual-speaking students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if any elementary or middle school within the MS4 area, as a part of a larger school district, is required to make a bilingual education program available to qualifying students and the school either has students enrolled at such a program on-site, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program as a member of a triggered district.

If it is determined that a bilingual notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language.

**FOR NEW PERMIT APPLICATIONS, MAJOR AMENDMENT AND RENEWAL APPLICATIONS (Not applicable for minor amendment or minor modification applications.):**

1. Is a bilingual program required by the Texas Education Code in any school district where the MS4 is located?  
**Yes**            No            (If No, alternative language notice publication is not required; skip to item 4.)
2. If Yes to question 1, are students enrolled in a bilingual education program at any elementary school or the middle school within the regulated area of the MS4?  
**Yes**            No            (If Yes to questions 1 and 2, alternative language publication is required; If No to question 2, then consider the next question.)
3. If Yes to question 1, are there students enrolled at either the elementary school or the middle school located within the regulated area of the MS4 who attend a bilingual education program at another location?  
**Yes**            No            (If Yes to questions 1 and 3, alternative language publication is required; If No to question 3, then consider the next question.)
4. If Yes to question 1, would either the elementary school or the middle school located within the regulated area of the MS4 be required to provide a bilingual education program but for the fact that it secured



a waiver from this requirement, as available under 19 TAC §89.1205(g)?

**Yes** No (If Yes to questions 1 and 4, alternative language publication is required; If No to question 4, alternative language notice publication not required.)

5. If a bilingual education program(s) is provided by either the elementary school or the middle school located within the regulated area of the MS4, which language(s) is required by the bilingual program? Spanish

(d) Public Involvement Plan

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a new permit or major amendment to a permit and include as an attachment – not required

- (e) List each person employed by the State of Texas who represented you and was paid for services regarding this application. NOTE: Any violation of §382.0591 of the Health and Safety Code, §26.0283 of the Water Code, or §572.054 of the Government Code, relating to conflict of interest, may result in denial of the application or filing of charges with the appropriate office. N/A

J. MS4 System Information

- (a) Application is for the following MS4(s): \_\_\_\_\_ The City of Irving\_

- (b) The MS4(s) is located in the following county/counties:

\_\_\_\_\_ Dallas \_\_\_\_\_

If the MS4 is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde or Williamson County, is the MS4, or a portion of the MS4, located in an area that is subject to TCEQ rules at 30 TAC Chapter 213, related to the Edwards Aquifer?

Yes

**No**

- (c) ZIP codes located within the MS4: 75014, 75015, 75016, 75017, 75038, 75039, 75060, 75061, 75062, 75063

- (d) The MS4(s) is located in or is nearest to the following city: \_\_\_\_\_ Irving \_\_\_\_\_

- (e) For an existing MS4: Is the location described on page one (1) of the existing TPDES permit correct?

**Yes**

No

N/A

If No, provide a more accurate description in item (f) below.

- (f) For a new permit: Give a written location description of the MS4 (plant) with respect to known or easily identifiable landmarks which can be found on the map provided with the application.

Is the MS4 located on Indian Land?



Yes

No

- (g) If the State of Texas is a landowner adjacent to the MS4, your application may affect lands dedicated to the permanent school fund. Refer to Texas Water Code §5.115. To determine whether lands dedicated to the permanent school fund are affected, you may submit a request which includes the property location to the General Land Office at the following address:

GENERAL LAND OFFICE  
DEPUTY COMMISSIONER OF ASSET MANAGEMENT  
STEPHEN F AUSTIN BLDG, RM 840  
1700 N CONGRESS  
AUSTIN TX 78701- 1495

If it is determined that your application may affect lands dedicated to the permanent school fund, your application must include the following information:

1. State the location of the permanent school fund land to be affected.  
\_\_\_\_\_
2. Describe any foreseeable impact or effect of the proposed permitted action on permanent school fund land.  
\_\_\_\_\_

#### K. Permit Information

- (a) Existing TPDES MS4 permit number: WQ0004691000
- (b) TPDES permit expiration date: 12/10/2024
- (c) Type of permit for which application is submitted (check one):
- ☐ New TPDES Individual Permit (Original, unpermitted)
- ☐ Major Amendment of a TPDES MS4 permit (Renewing the permit term.)
- ☒ Renewal of existing TPDES MS4 permit (With no changes or with minor changes.)
- ☐ Minor Modification of a TPDES Permit (Retain current expiration date.)
- ☐ Minor Amendment to a TPDES Permit (Retain current expiration date. Application requirements are limited to those items that relate to the proposed modification. See application instructions to determine if proposed changes can be made through a minor amendment.)
- (d) Are there any modifications or changes from conditions of the current permit that are requested for consideration during the processing of this application for a TPDES MS4 permit?

Yes

No

If the application is for a major amendment (with or without renewal) or minor amendment without renewal, a minor modification, or a renewal



with minor changes, briefly list the proposed changes requested in the amendment. A major amendment includes, but is not limited to, any change that makes a monitoring requirement less stringent, removal of a monitoring requirement, major changes in sampling protocol related to outfalls monitored in the permit, etc.

Applicants are encouraged to consider modifications or changes to the existing Storm Water Management Program (SWMP), during application for a TPDES permit, that would either more effectively control the discharge of pollution or more accurately monitor the effectiveness of the plan. Modifications and changes may be based on new data, water quality impacts from storm water discharges, past monitoring of discharges, and other similar considerations. Elements of the current plan may be strengthened, updated, replaced by new elements, or de-emphasized and even deleted, when appropriate. Provide a brief outline or list of any proposed changes (an in-depth discussion of proposed changes is required as a part of ATTACHMENT 1 to this application). Attach additional pages if necessary. \_\_\_ Our 2019 SWMP was never approved, we have been operating off our 10 year old SWMP. TCEQ never provided any updates or notes on that unfortunately...

- (e) List any other permits, existing or pending, that are held by the applicant and/or co-applicant(s) and that pertain to pollution control. Provide the permit/registration number and a short description of the activity (ex. #01234 City of Hope Municipal Solid Waste Landfill). If the applicant or co-applicants hold a significant number of permits, it would be appropriate to list only the water quality permits. If needed, attach a separate page(s) with additional permit numbers.

Permit Number	Permittee Name	Permit type
TXR05M662	City of Irving	Municipal Solid Waste Landfill

If the above list includes only water quality permits, please provide a general description below of the number of additional permits held by permit type (e.g., the number of water rights permits):

Permit Number	Permittee Name	Permit type





**L. Implementation and Compliance with the Current TPDES Permit**

Have all schedules of the current permit, relating to implementation and compliance with the Storm Water Management Program (SWMP), been met?

Yes

No

If the answer is no, provide a summary description of the current permit requirement/schedule that has not been met, cause for non-attainment, compliance schedule, and current efforts to complete this activity

---

**M. Discharge Information and Receiving Water Bodies**

- (a) For a currently permitted discharge into a watercourse:

Are the point(s) of discharge and discharge route description the same as described on page one (1) of the current permit?

Yes

No

If no, provide a more accurate description below. If the point(s) of discharge has (have) changed or a new outfall is proposed that would change the discharge route description, an application for a major amendment may be required.

---

- (b) Item b. is required for NEW permit applications:

For a proposed discharge into a watercourse: Provide a written description of the discharge route from each MS4 outfall to the nearest major watercourse. (For example: "From the MS4 through a weir to an unnamed tributary to Doe Creek, to Doe Creek, then to the Bravos River.").

---

- (c) Item c. is required for ALL permit applications.

List any water bodies that will receive storm water discharges during the term of the requested TPDES permit that were not previously identified in the application for the current TPDES MS4 permit. Also, provide a description of any known water quality problems for these additional receiving waters. Known water quality problems include both measured and unmeasured (or simply observed) problems.

Water bodies receiving storm water discharges: West Fork of the Trinity River 0841\_01 (impaired by bacteria, dioxins, PCBs) and Elm Fork of the Trinity River 0822\_01

---



## N. Plain Language Summary

Complete the plain language summary template below.

### Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) Phase I MS4 Permit Applications

This template is a guide to assist applicant's in developing a plain language summary as required by [30 Texas Administrative Code Chapter 39 Subchapter H](#). Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the blanks below to describe your facility and application. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package. Note: You identified your alternative language requirements above in section I.(c) of this application. For your convenience, a Spanish template has been provided below. Attach additional pages if necessary.

### English Template for TPDES New/Renewal/Amendment Applications

#### Phase I MS4 Stormwater

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.*

The City of Irving (CN 600243471) owns and operates a Municipal Separate Storm Sewer System (MS4). The City of Irving MS4 conveys stormwater from the City of Irving to surface water in the state. The City of Irving MS4 is located within the corporate boundary of the City Irving, in Dallas County, Texas 75014, 75015, 75016, 75017, 75038, 75039, 75060, 75061, 75062, 75063 (RN104011846).

The City of Irving MS4 discharges stormwater and certain non-stormwater discharges on a variable and intermittent basis. Discharges from the MS4 are expected to contain bacteria, sediments, nutrients, hazardous metals, oil, and grease. Stormwater discharges from the MS4 are managed with best management practices through the implementation of a Stormwater Management Program (SWMP). Examples of best management practices implemented by the City of Irving include but are not limited to: wet weather screening, dry weather screening, public outreach, construction site inspections, street sweeping, inflow



and infiltration studies of sanitary sewer system, video inspection of sanitary sewer system, and MS4 maintenance.



**PLANTILLA EN ESPAÑOL PARA SOLICITUDES  
NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES FASE I MS4 AGUAS PLUVIALES**

*El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no son representaciones federales exigibles de la solicitud de permiso.*

El MS4 de la Ciudad de Irving vierte aguas pluviales y ciertas descargas de aguas no pluviales de forma variable e esporádicamente. Se espera que las descargas de la MS4 contengan bacterias, sedimentos, nutrientes, metales peligrosos, aceite y grasa. Las descargas de aguas pluviales de MS4 se manejan con las mejores prácticas de manejo a través de la implementación de un Programa de Manejo de Aguas Pluviales (por sus siglas en inglés, SWMP). Ejemplos de las mejores prácticas de gestión implementadas por la Ciudad de Irving incluyen, pero no se limitan a: detección de clima húmedo, detección de clima seco, difusión pública, inspecciones de lugares de construcción, barrido de calles, estudios de entrada e infiltración del sistema de alcantarillado y saneamiento, inspección por video del sistema de alcantarillado y saneamiento, y mantenimiento del MS4.

**O. Required Attachments**

Provide the following attachments to the application:

**(a) Attachment 1**

Provide an in-depth description of all proposed modifications to the Storm Water Management Program (SWMP) or existing TPDES permit requirements for both the permittee and co-permittees. Provide rationale, based on findings collected during the previous TPDES permit term or from other sources, to support the proposed modifications.

**(b) Attachment 2 -**

Provide an original USGS topographic quadrangle map, or a similar topographic map with a scale between 1:10,000 and 1:24,000, which clearly delineates the following information. If the regulated area is too large to include on only one map, the applicant may use a different scale as appropriate.

- (1) The location and boundaries of the MS4, including an area extending at least one (1) mile beyond the service boundaries of the MS4;
- (2) all point(s) of discharge from the MS4;
- (3) a delineation of the discharge route that begins at the MS4 outfalls that are part of the Wet Weather Characterization Program (001, 002, etc.) and traced with a highlighter for a distance of three (3) stream miles or to the point that the discharge reaches a classified segment listed in 30 TAC, Chapter 307, Appendix A, (Note: Do not





mark with dark ink over the discharge route. A new original map will be required if the discharge route is not visible.);

- (4) a description of the land use activities, including estimations of population density and projected growth for a ten (10)-year period within the MS4 drainage area;
- (5) the location and a description of the activities of each currently operating or closed municipal landfill or the treatment, storage or disposal facility for municipal waste;
- (6) the location of major structural controls for storm water discharge, including detention/retention ponds, major infiltration devices, etc.; and
- (7) the identification of publicly owned parks, recreational areas, and other open lands.

For very large MS4 areas, these map requirements may be revised upon approval of the TCEQ Wastewater Permitting Section.

**(c) Attachment 3**

Provide a copy of the current SWMP, a description of monitoring and screening programs, and a summary of monitoring results for the previous year.

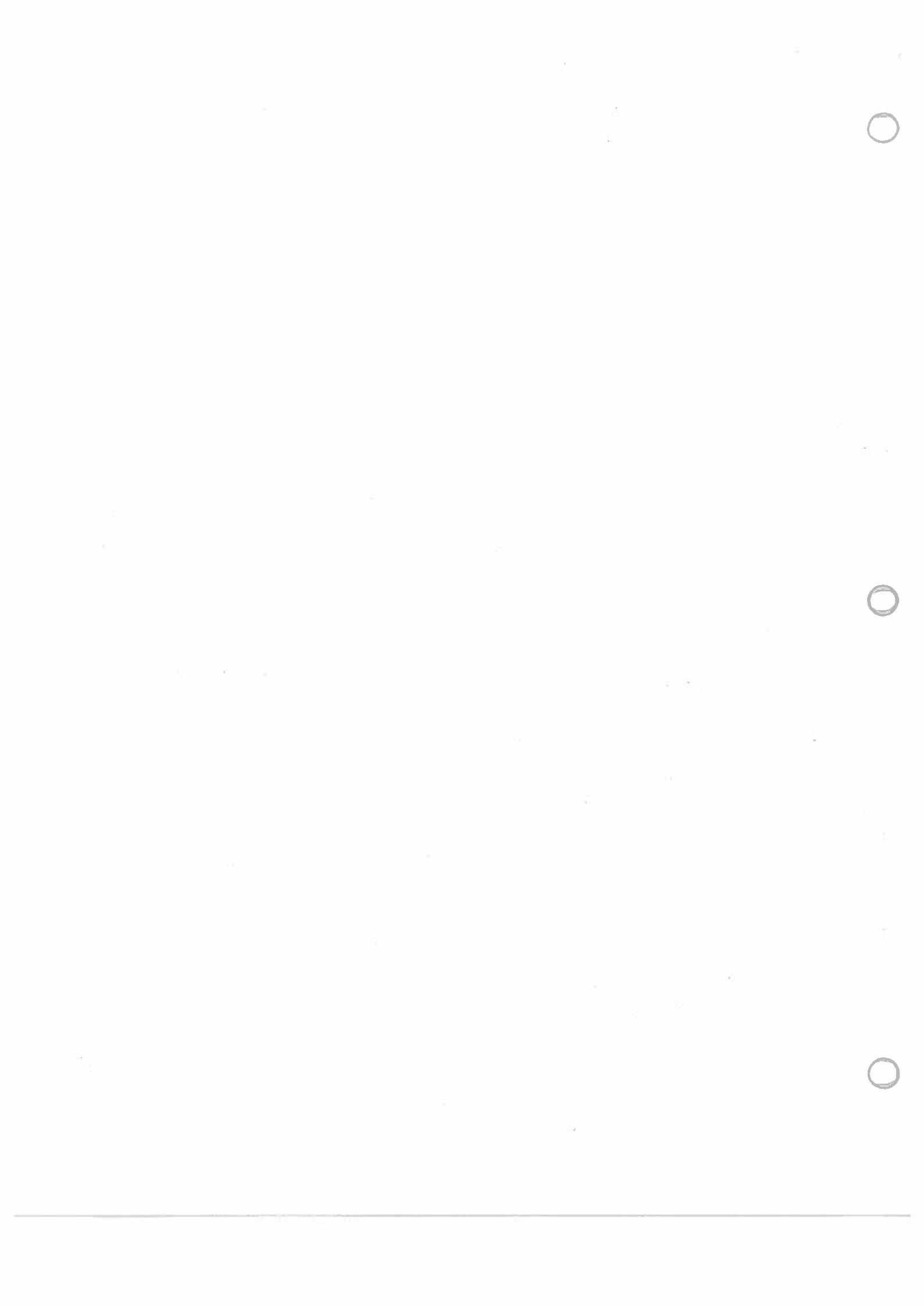
**(d) Attachment 4**

Review the most recent annual report and the SWMP and provide a brief description (1 to 2 paragraphs) of how all program elements have been implemented to meet the requirements in the existing permit. If the permit has several permittees, please provide a description of how each permittee meets the program requirements.

Address the program elements listed below:

**(1) MCM 1, MS4 Maintenance Activities.**

- a. Structural Controls. The existing permit requires that the permittee(s) operate the MS4 and any stormwater structural controls associated with the MS4 in a manner to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP).
- b. Floatables. The existing permit requires the permittee(s) to reduce the discharge of floatables, such as litter and other human generated solid refuse, into the MS4.
- c. Roadways. The existing permit requires the permittee(s) operate and maintain public streets, roads, and highways in a manner to minimize discharge of pollutants, including pollutants related to deicing or sanding activities.



(2) MCM 2, Post-Construction Stormwater Control Measures.

- a. The existing permit requires the permittee(s) to continue implementation and enforcement of the controls to minimize the discharge of pollutants from areas of new development and significant redevelopment after construction is completed.
- b. The existing permit requires that the comprehensive master planning process (or equivalent) must be expanded to include all new development and redevelopment projects that disturb one acre or more of land, including projects less than one acre that are part of a larger common plan of development or sale that will result in the disturbance of one acre or more.
- c. The existing permit requires the permittee(s) to evaluate the existing SWMP(s) as necessary to ensure that this MCM includes a regulatory mechanism, such as an ordinance, to implement and enforce the new requirements of this program and shall ensure that the SWMP includes strategies for structural and non-structural controls (i.e., BMPs) appropriate for the community. In addition, the permittee(s) shall provide for adequate long-term operation and maintenance of BMPs.
- d. The existing permit requires the permittee(s) to assess the impacts on the receiving water(s) for all flood control projects. Where feasible, new flood control structures must be designed, constructed, and maintained to provide erosion prevention and pollutant removal from stormwater. If applicable, the retrofitting of existing structural flood control devices to provide additional pollutant removal from stormwater shall be implemented to the MEP.

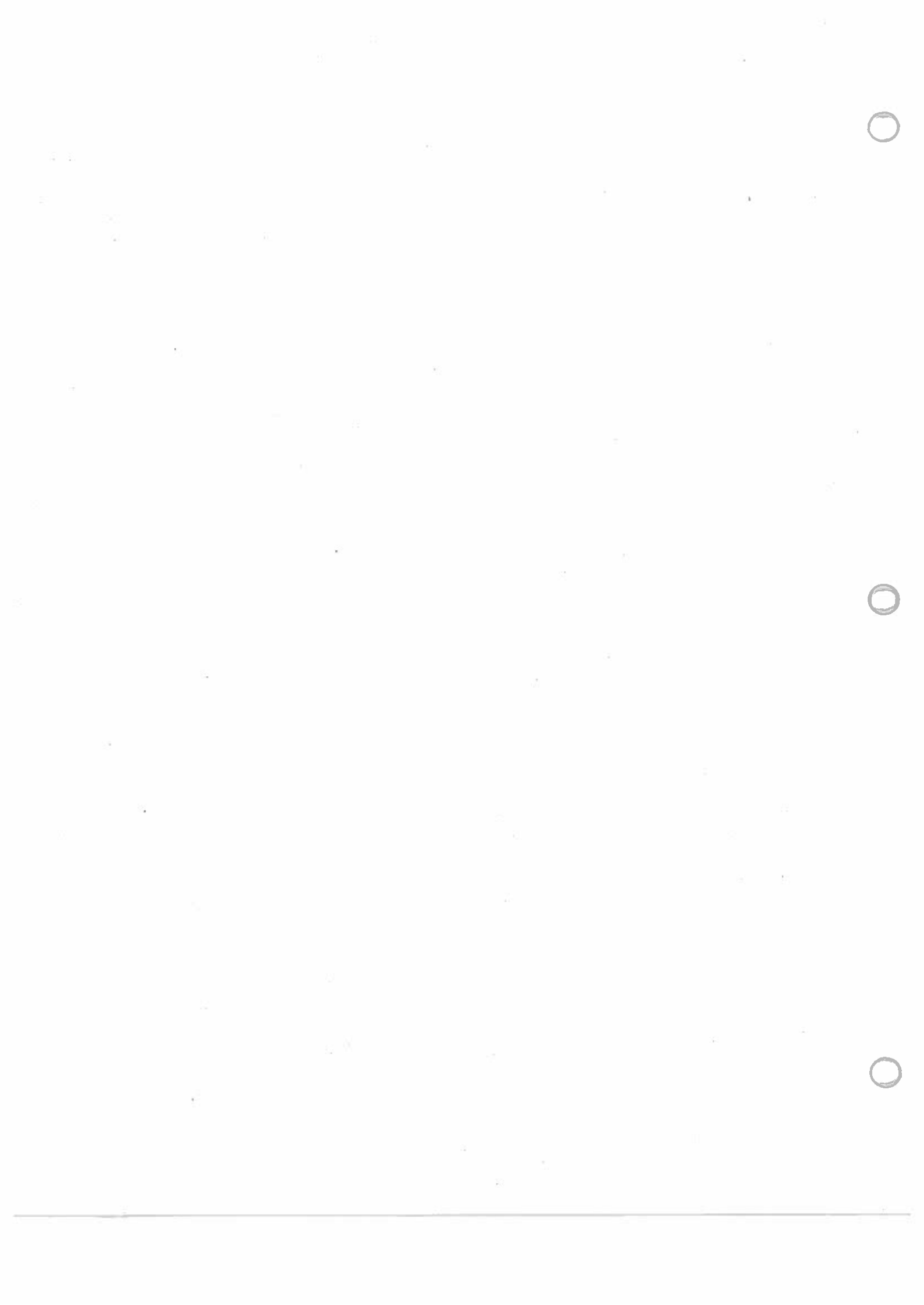
(3) MCM 3, Illicit Discharge Detection and Elimination.

- a. The existing permit requires the permittee(s) implement an ongoing program to detect and eliminate illicit discharges and improper disposal into the MS4.
- b. The existing permit requires the permittee(s) to identify all categories of miscellaneous, non-stormwater discharges that may be discharged into the MS4, and include a description of any local controls or conditions placed on discharges exempted from the prohibition on non-stormwater.
- c. The existing permit requires the permittee(s) to address discharges or flows from firefighting only where such discharges or flows are identified as significant sources of pollutants.
- d. The existing permit requires the permittee(s) to prohibit any individual non-stormwater discharge otherwise exempted under this paragraph from the prohibition on non-stormwater that is determined by the permittee(s) to be contributing significant amounts of pollutants to the MS4.
- e. Elimination of Illicit Discharges and Improper Disposal. The existing permit requires the operator of an illicit discharge or improper disposal practice to eliminate the illicit discharge or stop the improper disposal practice as quickly as reasonably possible. If the elimination of an illicit



discharge within 30 days is not possible, the permittee(s) shall require the operator of the illicit discharge to remove the discharge according to an expeditious schedule. Until the illicit discharge or improper disposal is eliminated the permittee(s) shall require the operator of the illicit discharge to take all reasonable measures to minimize the discharge of pollutants to the MS4.

- f. **Overflows and Infiltration.** The existing permit requires the permittee(s) to implement controls where necessary and feasible to prevent dry weather and wet weather overflows from sanitary sewers into the MS4. The permittee(s) shall continue to limit the infiltration of seepage from municipal sanitary sewers into the MS4.
  - g. **Household Hazardous Waste and Used Motor Vehicle Fluids.** The existing permit prohibits the discharge or disposal of used motor vehicle fluids and household hazardous wastes, and the intentional disposal of collected quantities of grass clippings, leaf litter, and animal wastes into the MS4.
  - h. **MS4 Screening and Illicit Discharge Inspections.** The existing permit requires the permittee(s) to continue implementation of the Dry Weather Screening Program described in Part III, Section B.2.h.i. of the permit. Follow-up activities to eliminate illicit discharges and improper disposals may be prioritized on the basis of magnitude and the nature of the suspected discharge, sensitivity of the receiving water, or other relevant factors. The entire MS4, but not necessarily each individual outfall, shall continue to be screened at least once per five years.
  - i. **Priority Areas.** The existing permit requires the permittee(s) to develop a list of priority areas likely to have illicit discharges. The permittee(s) shall continue to evaluate and update this list each year and report the results in the annual report.
  - j. **NPDES and TPDES Permittee List.** The existing permit requires the permittee(s) to maintain an updated list of dischargers that discharge directly to the MS4 and that have been issued an NPDES or a TPDES permit. The list shall include the name, location, and permit number (if known) of the discharger.
  - k. **MS4 Map.** The existing permit requires the permittee(s) to maintain a current, accurate MS4 map of the location of all MS4 outfalls; the names and locations of all waters of the U.S. that receive discharges from the outfalls; and any additional information needed by the permittee(s) to implement its(their) SWMP. Where possible, the permittee(s) shall use the Global Positioning System (GPS) to locate outfalls and photographs for documenting baseline conditions. The permittee(s) shall document the source information used to develop the MS4 map, including how the outfalls are verified and how the map will be regularly updated.
  - l. **Spill Prevention and Response.** The existing permit requires the permittee(s) to implement existing programs which prevent, contain, and respond to spills that may discharge into the MS4.
- (4) **MCM 4, Pollution Prevention and Good Housekeeping for Municipal Operations.**



- a. **Pollution Prevention and Good Housekeeping program.** The existing permit requires the permittee(s) to implement a pollution prevention and good housekeeping program for municipal operations.
- b. **Waste Handling.** The existing permit requires the permittee(s) to ensure that waste removed from the MS4 or other municipal operations is properly disposed of.
- c. **Pesticide, Herbicide, and Fertilizer Application.** The existing permit requires the permittee(s) to continue to implement controls to reduce the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers, by the (permittee's/permittees') employees or contractors, to public rights-of-way, parks, or other municipal property. The permittee(s), if it/they have jurisdiction over lands it/they do not directly own (e.g. incorporated city), shall implement programs to reduce the discharge of pollutants related to the commercial application and distribution of pesticides, herbicides, and fertilizers on those lands.
- d. **List of Municipal Facilities.** The existing permit requires that the SWMP must include a list of all municipal operations subject to the municipal operation, maintenance, and training programs listed under this MCM and all municipally owned and operated industrial activities subject to TPDES or NPDES industrial stormwater regulations.

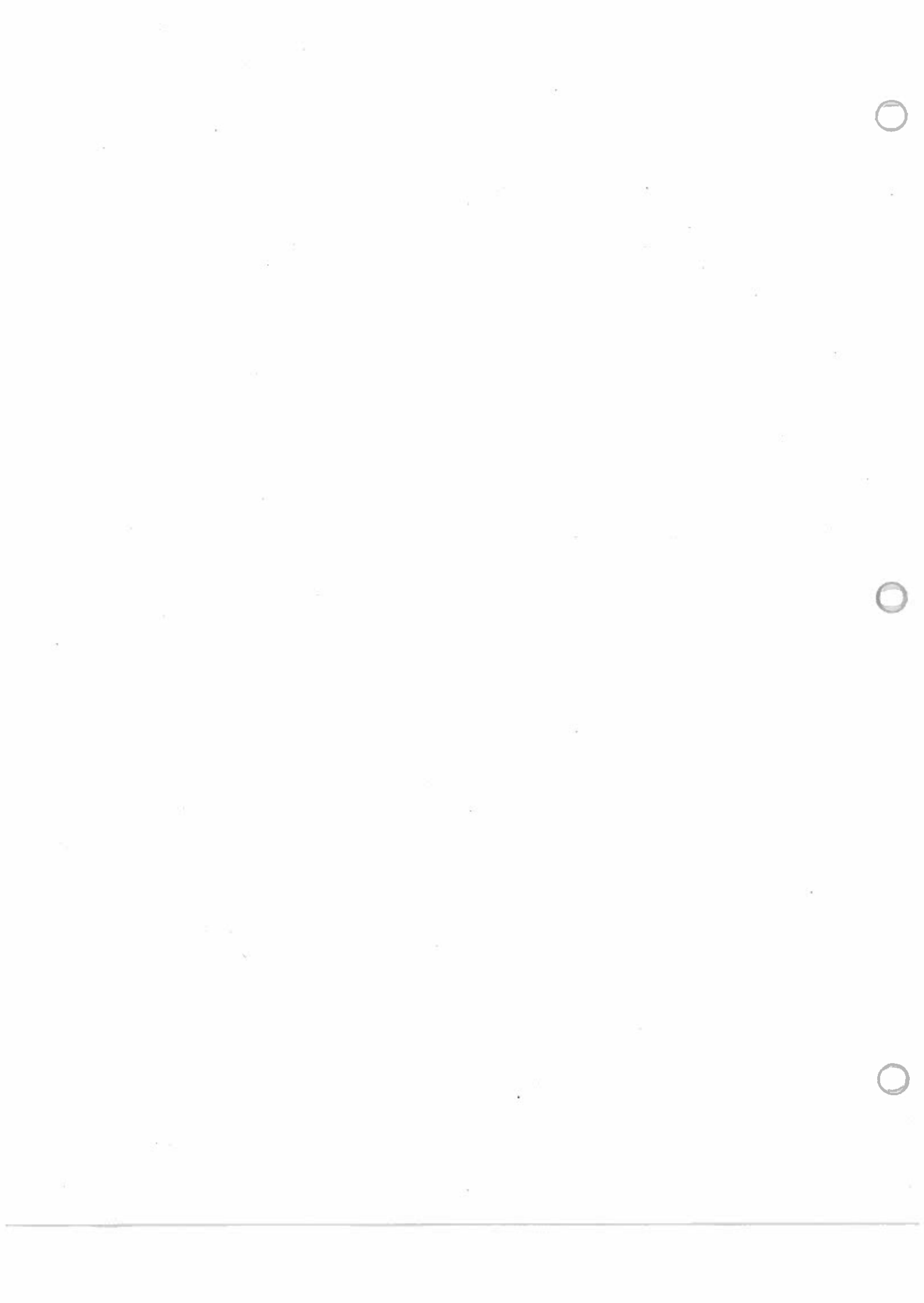
**(5) MCM 5, Industrial and High Risk Runoff.**

- a. The existing permit requires the permittee(s) to continue to improve (its/their) existing programs to identify and control pollutants in stormwater discharges to the MS4 from: municipal landfills; other treatment, storage, or disposal facilities for municipal waste (e.g., transfer stations, incinerators, etc.); hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to Emergency Planning and Community Right-to-Know Act (EPCRA) Title III, Section 313; and any other industrial or commercial discharge the permittee(s) determine(s) is/are contributing a substantial pollutant loading to the MS4.
- b. The program must include: priorities and procedures for inspections and for establishing and implementing control measures for such discharges; and an Industrial and High Risk Monitoring Program as described in Part III, Section B.2.h.iii. of the permit.

**(6) MCM 6, Construction Site Stormwater Runoff.**

- a. The existing permit requires the permittee(s) to continue to implement a program to reduce the discharge of pollutants into the MS4 from construction sites. This MCM must include an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law. The permittee(s) shall ensure that the existing program is revised as necessary to address construction projects that result in a land disturbance of one acre or more, including activities disturbing less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more.





b. The program must include the following:

- requirements to use and maintain appropriate erosion and sediment control BMPs to reduce pollutants discharged to the MS4 from construction sites;
- requirements for construction site operators to address the control of site waste, such as discarded building materials, concrete truck washout water, chemicals, litter, and sanitary waste;
- requirements for inspections of construction sites and enforcement of control measure requirements;
- requirements for the permittee(s) to provide appropriate education and training measures to construction site operators;
- notifications to construction site operators of their potential responsibilities under the NPDES or TPDES permitting regulations and permits for construction site runoff;
- procedures for site plan review that incorporate consideration of potential water quality impacts;
- procedures for receiving and considering input received from the public.
- a description of a program to implement and maintain structural and non-structural BMPs to reduce pollutants in stormwater runoff from construction sites to the MS4, which must include a description of the following:
  - procedures for site planning which incorporate consideration of potential water quality impacts;
  - requirements for nonstructural and structural best management practices;
  - procedures for identifying priorities for inspecting sites and enforcing control measures that consider the nature of the construction activity, topography, and the characteristics of soils and receiving water quality; and
  - appropriate educational and training measures for construction site operators.

- c. Lists of Sites. The existing permit requires the permittee(s) to maintain a current list of construction sites that discharge directly to the MS4 and that have been issued an NPDES or TPDES permit. The list must include the name, location and permit number of the discharges that have been authorized under an NPDES or TPDES stormwater discharges permit for construction activities (if known).



d. The existing permit requires the permittee(s) to ensure and demonstrate that the program includes the following elements, in addition to those listed above:

- The permittee(s) shall require construction site contractors to implement appropriate erosion and sediment control BMPs and control waste (for example, discarded building materials, concrete truck washout water, chemicals, litter, and sanitary waste) at the construction site that may cause adverse impacts to water quality.
- The permittee(s) shall develop procedures for site plan reviews that incorporate consideration of potential water quality impacts, receipt and consideration of information submitted by the public, and site inspections and enforcement of control measures to the extent allowable under state and local law.

(7) MCM 7, Public Education, Outreach, Involvement and Participation.

a. Public Education and Outreach

- The existing permit requires that the permittee(s) shall document and ensure that the SWMP promotes, publicizes, and facilitates public education and outreach to residents, visitors, public service employees, businesses, commercial and industrial facilities, and construction site personnel and provide justification for any group that is not addressed by the program. The permittee(s) shall document the activities conducted and materials used to fulfill this program element and provide enough detail to demonstrate the amount of educational and outreach resources and materials used to address each group.
- The existing permit requires the permittee(s) to continue to implement a public education and outreach program component to promote, publicize, and facilitate:
- public reporting of illicit discharges or improper disposal of materials, including floatables, into the MS4;
- the proper management and disposal of used oil and household hazardous wastes; and
- the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors.

b. Public Involvement and Participation. The existing permit requires the permittee(s) to develop and implement a public involvement and participation program which complies with State, Tribal, and local public notice requirements. This program element must include opportunities for a wide variety of constituents within the MS4 area to participate in the SWMP development and implementation.



(8) MCM 8, Monitoring, Evaluating and Reporting. The existing permit requires the permittee(s) to continue to implement, and modify as necessary, the following monitoring or screening programs for dry weather, wet weather, and industrial and high-risk runoff:

- a. Dry Weather Screening Program. This program shall continue the permittee(s)' efforts to detect the presence of illicit connections and improper discharges to the MS4. All areas of the MS4 must be screened at least once during the permit term. The permittee(s) may utilize modified screening methods based on experience gained during previous field screening activities; the screening methods are not required to conform to the protocol in 40 CFR § 122.26(d)(1)(iv)(D). Sample collection and analysis is not required to conform to the requirements of Part V, Section B.2. of the permit, "Test Procedures;" however, samples taken to confirm (e.g., in support of possible legal action) a particular illicit connection or improper disposal practice must conform to the requirements of Part V, Section B.2. of the permit, "Test Procedures."
- b. Wet Weather Screening Program: The existing permit requires the permittee(s) to identify, investigate, and address areas within their jurisdiction that may be contributing excessive levels of pollutants to the MS4.

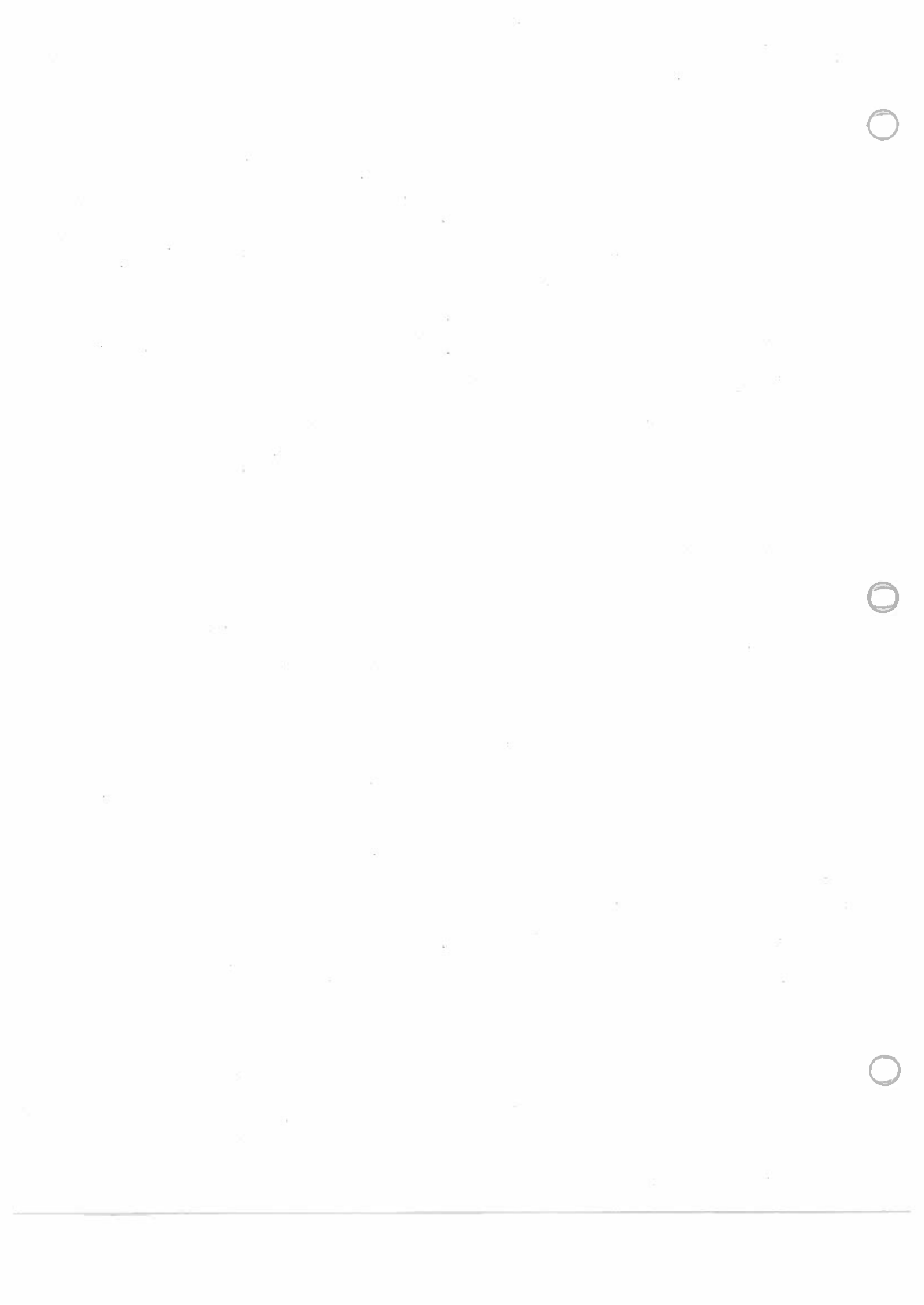
The wet weather screening program shall:

- screen the MS4, as specified in the SWMP; and
- specify the sampling and non-sampling techniques to be used for current screening and also for follow-up screening.

Sample collection and analysis for the Wet Weather Screening Program is not required to conform to the requirements of Part V, Section B.2. of the permit, "Test Procedures;" however, samples taken to confirm (e.g., in support of possible legal action) a particular illicit connection or improper disposal practice must conform to the requirements of Part V.B.2. of the permit, "Test Procedures."

c. Industrial and High Risk Runoff Monitoring Program.

- The existing permit states that this program must include monitoring for pollutants in stormwater discharges to the MS4 from municipal landfills; other treatment, storage, or disposal facilities for municipal waste (e.g., transfer stations, incinerators, etc.); hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313; and any other industrial or commercial discharge the permittee(s) determine(s) is/are contributing a substantial pollutant loading to the MS4.
- The Industrial and High-Risk Runoff Monitoring Program must include the collection of quantitative data on parameters which have been identified by the permittee(s) as a pollutant of concern for that facility and shall:



- coincide with the corresponding industrial sector-specific requirements of the TPDES Multi-Sector General Permit No. TXR050000 or any applicable general permit issued after September 29, 1995, and is not contingent on whether a particular facility is actually covered by the general permit;
    - coincide with the monitoring requirements of any individual permit for the stormwater discharges from that facility; and
    - include pollutants of concern for the stormwater discharge from that facility as identified by the permittee(s).
  - To avoid the duplication of efforts, the permittee(s) may review data collected by a facility as required by any individual or general permit for that facility rather than performing additional sample collection and analysis.
  - In lieu of the monitoring discussed above, the permittee(s) may accept a certification from a facility that raw and waste materials, final and intermediate products, by-products, material handling equipment or activities, industrial machinery or operations, or significant materials from past industrial activity are not presently exposed to stormwater and are not expected to be exposed to stormwater for the certification period. Where a permittee accepts a "no exposure" certification, the permittee shall conduct site inspections of the facility not less than once per permit term to verify the "no exposure" exemption
  - The permittee(s) may also waive monitoring requirements under this permit for facilities that it/they determine(s) are in compliance with the TPDES Multi-Sector General Permit No. TXR050000.
- d. Wet Weather Characterization Sampling Program (if applicable): The permittee(s) participate(s) in a Wet Weather Characterization Program through a regional effort coordinated by the North Central Texas Council of Governments (NCTCOG). From 1997-2001 the permittee(s) conducted land use monitoring of stormwater outfalls within the MS4. For the current permit term, as well as the upcoming permit term, the permittee(s) is/are working in conjunction with other regional participants on an instream monitoring program to more accurately assess the effects of urban runoff on city streams and establish baseline data on the receiving streams to use in determining the long term trends associated with stormwater runoff. The TCEQ, by letter of April 15, 2003, approved the original NCTCOG monitoring program.

In this application, the permittee(s) has/have requested approval to conduct sampling in accordance with a revised Regional Wet Weather Characterization Program (RWWCP). Specific changes to the original approved RWWCP were proposed by the NCTCOG by letter dated





December 13, 2010. TCEQ approved this updated plan by letter dated February 11, 2011. The approved RWWCP includes certain revisions, and is described in Part VII.B.1.a of this fact sheet.

TCEQ supports the participation of the permittee(s) in the RWWCP. However, if the permittee(s) choose(s) instead to perform Wet Weather Characterization Sampling according to the Representative Storm Event Monitoring option in lieu of the Regional Wet Weather Characterization Program (RWWCP) option then the permittee(s) must conduct outfall monitoring at the \_\_\_\_ (insert number of outfalls) specified in the permit.

- e. Storm Event Discharge Monitoring. The existing permit requires the permittee(s) to comply with the monitoring requirements in Part IV of the permit to characterize the discharge from the MS4.
- f. Floatables Monitoring. The existing permit requires the permittee(s) to implement a floatables program as described in Part IV, Section B of the permit.

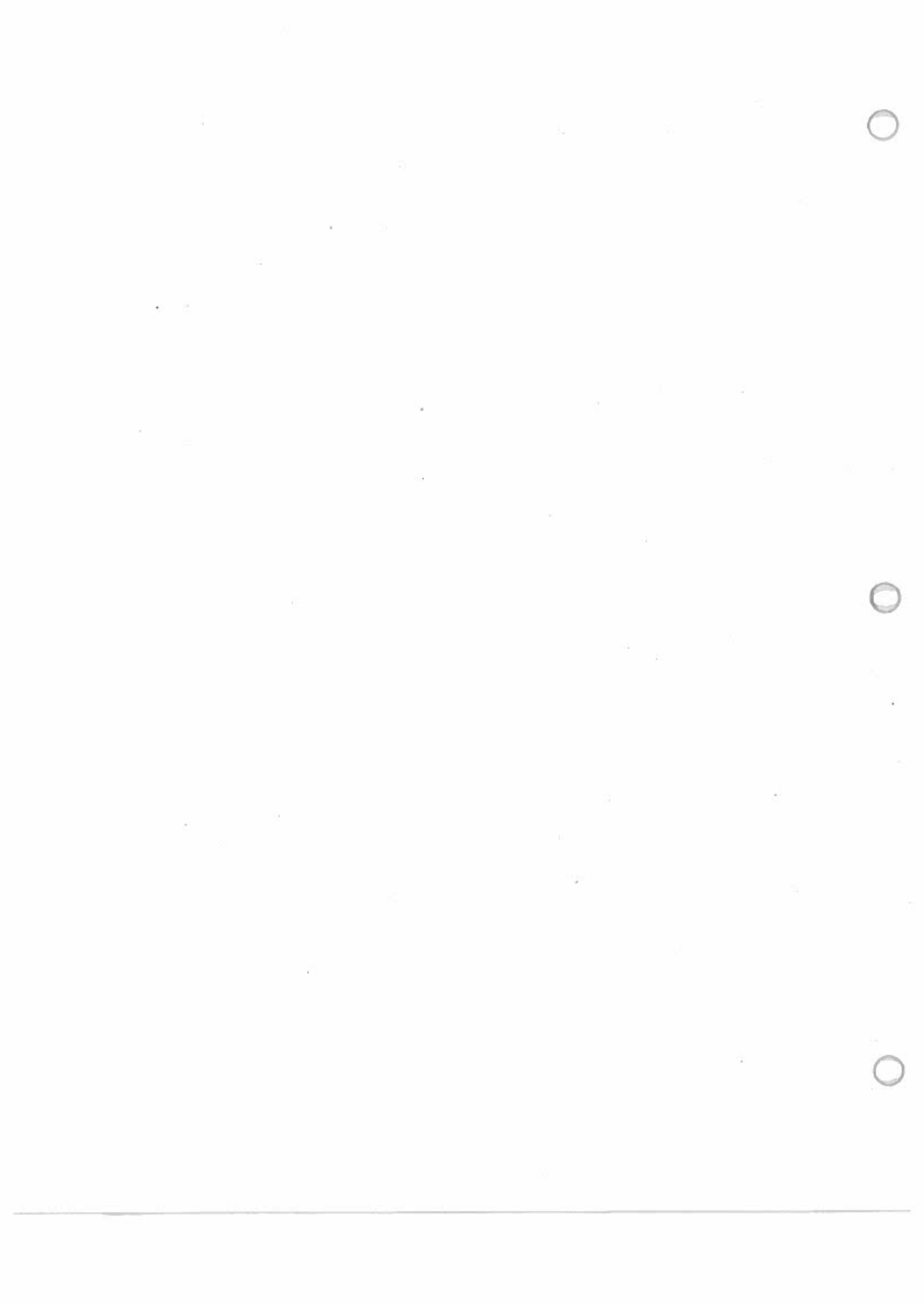
**P. Mailing Addresses for Submittal of the Application.**

Submit the original application, along with two (2) complete copies, to the appropriate address below:

For Standard U.S. Mail Service: Executive Director  
Texas Commission on Environmental  
Quality  
Attn: Water Quality Division  
Business and Program Services Section  
Applications Review and Processing  
Team (MC-148) P.O. Box 13087  
Austin, Texas 78711-3087

For Express Mail: Applications Review and Processing  
Team (MC-148)  
Texas Commission on Environmental  
Quality  
12100 Park 35 Circle  
Austin, Texas 78753

For Hand Delivery: Applications Review and Processing  
Team (MC-148)  
Texas Commission on Environmental  
Quality  
Building F, Room 2101  
12100 Park 35 Circle  
Austin, Texas 78753



## Q. Telephone Inquiries

Administrative Information:	(512) 239-4671 Water Quality Applications Review and Processing Team
Technical Information:	(512) 239-4671 Storm Water and Pretreatment Team, Water Quality Standards Implementation Team
Legal Information:	(512) 239-0600 Environmental Law Division

## R. Signatory Requirements

The application form shall be signed by the applicant and, if applicable, the co-applicant(s), in accordance with TCEQ rules at 30 TAC § 305.44. The application must be signed by the official indicated below, according to the type of entity:

- municipality - a principal executive officer or a ranking elected official
- independent school district - at least the level of assistant superintendent
- state, federal or other public facility - a principal executive officer or a ranking elected official

If a co-permittee is required, a signature page from both entities must be submitted. Make a copy of the blank signature page if a co-permittee signature page must be submitted.

The signature page must bear the seal of the notary public and other requested notary information. The signature date and the notary date must be the same date. If the dates differ, the signature page will not be accepted. If the signature page is not notarized, the signature page will not be accepted.



**SIGNATURE PAGE**

Chris Hillman

City Manager

I, \_\_\_\_\_ Title: \_\_\_\_\_  
Typed or printed name

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.


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

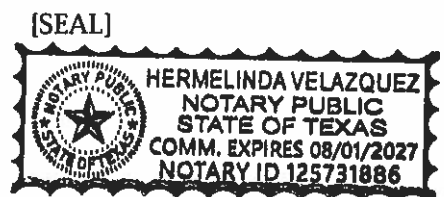
**NOTE: ALL APPLICATIONS MUST BEAR THE SIGNATURE AND SEAL OF NOTARY PUBLIC.**

Subscribed and Sworn to before me by the said \_\_\_\_\_

on this 30<sup>th</sup> day of MAY, 2024

My commission expires on the 1<sup>st</sup> day of 08, 2024.

  
Notary Public  
Dallas  
County, Texas



**NOTE: If co-permittees are necessary, all entities must submit separate Signature Pages.**



# Dallas County Flood Control District#1





Co-applicant:

SIGNATURE PAGE

I, ROBERT NELSON, JR. Title: PRESIDENT  
Typed or printed name

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Signature: [Signature] Date: 5-10-24

NOTE: ALL APPLICATIONS MUST BEAR THE SIGNATURE AND SEAL OF NOTARY PUBLIC.

Subscribed and Sworn to before me by the said Robert M Nelson, JR

on this 10th day of MAY, 2024

My commission expires on the 19th day of MAY, 2026.

[Signature]  
Notary Public  
Dallas  
County, Texas



NOTE: If co-permittees are necessary, all entities must submit separate Signature Pages.



**Dallas County Utility and Reclamation District  
(DCURD)**



Co-applicant:

SIGNATURE PAGE

I, Tim Benefiel Title: Operations Manager  
Typed or printed name

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

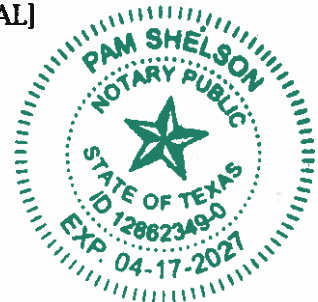
Signature: *Tim Benefiel* Date: 5/20/2024

NOTE: ALL APPLICATIONS MUST BEAR THE SIGNATURE AND SEAL OF NOTARY PUBLIC.

Subscribed and Sworn to before me by the said *Operations Manager, Tim Benefiel*  
on this 20 day of May, 2024  
My commission expires on the 17 day of April, 2027

*Pam Shelson*  
Notary Public  
Dallas  
County, Texas

[SEAL]



NOTE: If co-permittees are necessary, all entities must submit separate Signature Pages.



## Irving Flood Control District#1





Co-applicant:

SIGNATURE PAGE

I, Tim Benefiel Title: Operations Manager  
Typed or printed name

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Signature: [Signature] Date: 5/20/2024

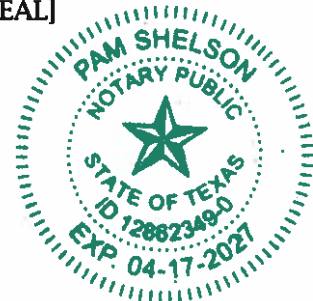
NOTE: ALL APPLICATIONS MUST BEAR THE SIGNATURE AND SEAL OF NOTARY PUBLIC.

Subscribed and Sworn to before me by the said Operations Manager, Tim Benefiel  
on this 20 day of May, 2024

My commission expires on the 17 day of April, 2027

Pam Shelton  
Notary Public  
Dallas  
County, Texas

[SEAL]



NOTE: If co-permittees are necessary, all entities must submit separate Signature Pages.



## Irving Flood Control District#3



Co-applicant:

SIGNATURE PAGE

I, Tim Benefiel Title: Operations Manager  
Typed or printed name

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Signature: *Tim Benefiel* Date: 5/20/2024

NOTE: ALL APPLICATIONS MUST BEAR THE SIGNATURE AND SEAL OF NOTARY PUBLIC.

Subscribed and Sworn to before me by the said Operations Manager, Tim Benefiel  
on this 20 day of May, 2024  
My commission expires on the 17 day of April, 2027.

Pam Shelson  
Notary Public  
Dallas  
County, Texas

[SEAL]



NOTE: If co-permittees are necessary, all entities must submit separate Signature Pages.



---

**For TCEQ staff use only:**

Application Type:      Renewal  
                                 Major Amendment  
                                 Minor Amendment  
                                 New

Agency Receiving      Texas Historical Commission  
SPIF:                      Texas Parks & Wildlife  
                                 US Fish & Wildlife  
                                 Army Corps of Engineers

County: \_\_\_\_\_

Segment: \_\_\_\_\_

Admin Complete Date: \_\_\_\_\_

---

**SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)**

**This form applies to TPDES applications**

The SPIF must be completed as a separate document. We will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed and/or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed. **DO NOT REFER TO A RESPONSE OF AN ITEM IN THE PERMIT APPLICATION FORM.** Each attachment must be provided with this form, separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

**The following applies to all applications:**

1. Permittee(s): \_\_\_\_\_
2. TPDES Permit No.: \_\_\_\_\_
3. (EPA ID No. ): \_\_\_\_\_
4. Address of the project (description of the MS4 boundaries):  
\_\_\_\_\_
5. Provide the name, address, telephone and fax number of an individual that can be contacted to answer specific questions about the property.  
\_\_\_\_\_
6. List the county in which the MS4 is located: \_\_\_\_\_





7. If the property is publicly owned and the owner is different than the permittee/applicant, please identify the owner: \_\_\_\_\_
8. Identify the name of the water body (receiving waters) or TCEQ segment number that will receive the discharge:  
\_\_\_\_\_
9. Provide a 7.5 minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. (This map is required in addition to the map requested in the application administrative report.)
10. Provide original photographs of any structures 50 years or older on the property.
11. Does your project involve any of the following?  
Proposed access roads, utility lines, and construction easements  
Visual effects that could damage or detract from a historic property's integrity  
Vibration effects during construction or as a result of project design  
Additional phases of development that are planned for the future  
Sealing of caves, fractures, sinkholes, or other karst features  
Disturbance of vegetation or wetlands
12. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves or other karst features):  
\_\_\_\_\_
13. Describe existing disturbances, vegetation & land use (plowing, other ground disturbances): \_\_\_\_\_
- The following applies only to applications for New TPDES permits and Major Amendments to TPDES Permits:**
14. List construction dates of any buildings or structures on the property:  
\_\_\_\_\_
15. Provide a brief history of the property, and name of the architect/builder, if known:  
\_\_\_\_\_



## **S. General Information**

### **Permit Application Forms**

The new, major amendment, minor amendment, and renewal applications with instructions are available in Adobe Acrobat PDF format on the TCEQ web site:

[http://www.tceq.state.tx.us/comm\\_exec/forms\\_pubs/search\\_forms.html](http://www.tceq.state.tx.us/comm_exec/forms_pubs/search_forms.html)

### **TCEQ Central Registry Core Data Form**

The Core Data Form has been incorporated into this form. Do not send a core data form to TCEQ.

You can search by the RN, CN, name (permittee), or permit number under the search field Additional ID.

The customer (permittee) is responsible for providing current information to the TCEQ, and for updating all CN and RN data for all authorizations as changes occur.

### **Fees are associated with a MS4 Permit**

Payment of the fees may be made by check or money order payable to TCEQ, or through EPAY (electronic payment through the web). The permit requires two different fees.

#### **(a) Application Fee:**

This fee is required to be paid at the time the application is submitted. Failure to submit payment at the time the application is filed will cause delays in acknowledgment or denial of coverage under the general permit.

#### **(2) Mailed Payments**

Payment must be mailed in a separate envelope to one of the addresses below. Include the attached Application Fee submittal form. (Send only the application fee submittal form. Do not send a copy of the application.) <fee submittal form only applies to GP's for now>

#### **(3) BY REGULAR U.S. MAIL**

Texas Commission on Environmental Quality  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

#### **(4) BY OVERNIGHT/EXPRESS MAIL**

Texas Commission on Environmental Quality  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

#### **(5) ePAY Electronic Payment**



Go to: [www.tceq.state.tx.us/epay](http://www.tceq.state.tx.us/epay)

When making the payment you must select Water, and then select the fee under the category MS4. You must include a copy of the payment voucher with your application, which will not be considered complete without the payment voucher.

**(6) Annual Water Quality Fee:**

This fee is assessed to permittees with an active authorization on September 1 of each year. The permittee will receive an invoice for payment of the annual fee in November. The payment will be due 30 days from the invoice date. A 5% penalty will be assessed if the payment is not received by TCEQ by the due date. Annual fee assessments cannot be waived as long as the permit is active on September 1.

**(7) Mailed Payments**

Return your payment with the billing coupon provided with the billing statement.

**(8) BY REGULAR U.S. MAIL**

Texas Commission on Environmental Quality  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, TX 78711-3088

**(9) BY OVERNIGHT/EXPRESS MAIL**

Texas Commission on Environmental Quality  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, TX 78753

**(10) ePAY Electronic Payment**

Go to: [www.tceq.state.tx.us/epay](http://www.tceq.state.tx.us/epay)

Enter your account number provided at the top portion of your billing statement. Payment methods include MasterCard, Visa, and electronic check payment (ACH). A transaction over \$500 can only be made by ACH.

**T. Instructions for filling out the application form**

**Important Note:**

**More than one entity may be required to apply for the permit as Co-Permittees.**

The selected entity type indicates the name that must be provided as an applicant for a permit, registration or authorization. It also identifies when a co-applicant/co-permittee on an application for a permit, registration or authorization is required.

**Permittee (Applicant)**

**Enter assigned Customer Number (CN)**



TCEQ's Central Registry will assign each customer a number that begins with "CN," followed by nine digits. This is not a permit number, registration number, or license number.

- If this customer has not been assigned a CN, leave the space for the CN blank.
- If this customer has already been assigned this number, enter the permittee's CN.

**Mailing Address**

Provide a complete mailing address for receiving mail from the TCEQ. The address must be verifiable with the US Postal Service at <http://www.usps.com> for regular mail delivery (not overnight express mail). If you find that the address is not verifiable using the USPS web search, please indicate the address is used by the USPS for regular mail delivery.

**Phone Number**

This number should correspond to this customer's mailing address given earlier. Enter the area code and phone number here. Leave Extension blank if this customer's phone system lacks this feature.

**Fax Number and E-mail Address**

This number and E-mail address should correspond to applicant's mailing address provided earlier. (Optional Information)

**Type of Customer**

Check only one box that identifies the type of entity. Use the descriptions below to identify the appropriate entity type.

Note that the selected entity type also indicates the name that must be provided as an applicant for a permit, registration or authorization. It also identifies when a co-applicant/co-permittee on an application for a permit, registration or authorization is required.

**Government - Federal, state, county, or city government (as appropriate)**

The customer is either an agency of one of these levels of government or the governmental body itself. The government agency's 'legal name' must be provided as the applicant. A department name or other description of the organization should not be included as a part the 'legal name' as applicant.

**Other**

The customer does not fit any of the above descriptions. Enter a short description of the type of customer in the blank provided.

**Number of Employees**

Check one box to show the number of employees for this customer's entire company, at all locations. This is not necessarily the number of employees at the site named in the APPLICATION.

**Billing Address**

An annual fee is assessed to each permittee on September 1 of each year. Provide the complete mailing address where the annual fee invoice should be mailed. Verify the address with the USPS. It must be an





address for delivery of regular mail, not overnight express mail. Also, provide a phone number of the permittee's representative responsible for payment of the invoice.

#### **Country Mailing Information**

If this address is outside the United States, enter the territory name, country code, and any non-ZIP mailing codes or other nonBU.S. Postal Service features here. If this address is inside the United States, leave these spaces blank.

#### **Regulated Entity (RE) Information on Project or Site**

##### **Regulated Entity Reference Number (RN)**

This is a number issued by TCEQ's Central Registry to sites (a location where a regulated activity occurs) regulated by TCEQ. This is not a permit number, registration number, or license number.

- If this regulated entity has not been assigned an RN, leave this space blank.
- If this customer has been assigned this number, enter the permittee's RN.

A new regulated entity number is assigned by Central Registry for each new MS4 permit application since the area under control of the applicant may overlap with other regulated entities. This RN will be assigned during administrative review of the permit application.

##### **Site Name/Regulated Entity**

Provide the name of the MS4 operation as known by the public in the area where the MS4 is located. The name you provide on this application will be used in the TCEQ Central Registry as the Regulated Entity.

##### **Mailing Address for the Regulated Entity**

Provide a complete mailing address to be used by TCEQ for receiving mail. In most cases, the address is the same as the permittee.

Name the county, where the largest residential population exists within the MS4's regulated boundaries. If the regulated area falls within additional counties, provide the county names as secondary.

##### **Latitude and Longitude**

The Latitude and Longitude must be the approximate center of the regulated portion of the small MS4. Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. For help obtaining the latitude and longitude, go to:

[www.tceq.state.tx.us/gis/drgview.html](http://www.tceq.state.tx.us/gis/drgview.html) or

<http://msrmaps.com/advfind.aspx>

##### **Description of Activity Regulated**

In your own words, briefly describe the primary business that you are doing that requires this authorization. Do not repeat the SIC Code description.

#### **Application Contacts**



Provide the name, title and communication information of the person that TCEQ can contact for additional information regarding this application.

**DMR Contact**

Provide the name and mailing address of the person responsible for receiving and submitting DMRs as indicated in the permit. The preprinted DMRs will be provided by the TCEQ Enforcement Division unless you chose to submit electronically.

**Submit data Online.....**

Submit online through eDMR system. Go to Sign up now at:  
<http://www.tceq.state.tx.us/permitting/steers/steers.html>

Establish an electronic reporting account when you get your permit number.

**Plain Language Summary**

1. Enter the name of applicant(s) in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number(s) in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: a municipal separate storm sewer system (MS4) which conveys stormwater from the City of Texas City to surface water in the state
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code(s) for the MS4 in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge stormwater from the MS4 into surface water in the state.



14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants being monitored by the MS4 in the existing permit.
15. Enter the discharge types from your facility in this section (e.g., stormwater, allowable non-stormwater discharges, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of how discharges are treated or managed. Use additional lines for individual discharge types or outfalls if necessary.



**Example - Phase I Municipal Separate Storm Sewer System (MS4)  
Individual Permit Renewal Application**

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.*

The City of Texas City (CN000000001) owns and operates a Municipal Separate Storm Sewer System (MS4). The City of Texas City MS4 conveys stormwater from the City of Texas City to surface water in the state. The City of Texas City MS4 is located within the corporate boundary of the City of Texas City, in McLennan (County), Texas 76701, 76702, 76703, 76704, 76705, 76706, 76707, 76708, 76710, 76711, 76712, 76714, 76715, 76716, 78797, 78798, and 78799 (RN100000001).

The City of Texas City MS4 discharges stormwater and certain non-stormwater discharges on a variable and intermittent basis. Discharges from the MS4 are expected to contain bacteria, sediments, nutrients, hazardous metals, and oil and grease. Stormwater discharges from the MS4 are managed with best management practices through the implementation of a Stormwater Management Program (SWMP). Examples of best management practices implemented by the City of Texas City include but are not limited to: wet weather screening, dry weather screening, radio announcements to advertise a pollution hotline, construction site inspections, volunteer clean-up events, street sweeping, inflow and infiltration studies of sanitary sewer system, video inspection of sanitary sewer system, and public education material distribution.

**Certification**

Each entity applying for the permit is required to sign the certification statement. The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code (TAC) §305.44.

The regulation that controls who may sign an application or similar form is 30 Texas Administrative Code §305.44(a)(3) (see below). According to this code provision, only a ranking elected official or principal executive officer may sign an application or similar form. Persons such as the city mayor or county commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statute(s) under which your government entity was formed. An application or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The





signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the application or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the TCEQ's Environmental Law Division at 512/239-0600.

30 Texas Administrative Code §305.44. Signatories to Applications.

(a) All applications shall be signed as follows:

For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).





## Co-applicants

### A. Co-applicants(s)

**Note: This section may be copied and attached to the application if there are additional co-applicants. Indicate if there are additional co-applicants:**

☒ Yes

☐ No

- (a) If the co- applicant is currently a customer with TCEQ, provide the Customer Number (CN)? Search for your CN at <http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: 600696306

- (a) Provide the Legal Name of the entity (applicant) applying for this permit:  
Dallas County Flood Control District No. 1
- (b) Provide the name and title of the person signing the application:  
(The person must be an executive official meeting signatory requirements in TAC §305.44(a).)

Prefix: Mr.

(e.g, Mr., Ms., Miss)

First/Last Name: Robert Nelson

Suffix:

Title:

Credential:

- (c) Provide the applicant's mailing address as recognized by the US Postal Service:

You may verify the address at: <http://zip4.usps.com/zip4/welcome.jsp>

Street Address or P.O. Box: 210 Highland Park Dr.

Internal Routing (Mail Code, Etc.):

City: Irving

State: Tx

ZIP Code: 75061

Electronic Contact Information:

Phone No.: 972-399-0026

Extension:

Fax No.:

E-mail Address: robertnelson@ebby.com

(d) Indicate the type of Customer:

Federal Government

State Government

**County Government**

City Government

Other Government, Explain \_\_\_\_\_

(e) Number of Employees:

**0-20;** 21-100; 101-250; 251-500; or 501 or higher

**B. Co-applicants(s)**

**Note: This section may be copied and attached to the application if there are additional co-applicants. Indicate if there are additional co-applicants:**

☒ Yes

No

(f) If the co-applicant is currently a customer with TCEQ, provide the

Customer Number (CN)? Search for your CN at

<http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: \_\_\_ 600687693 \_\_\_

(g) Provide the Legal Name of the entity (applicant) applying for this permit:

\_\_\_\_\_ **Dallas County Utility and Reclamation District (DCURD)** \_\_

(h) Provide the name and title of the person signing the application:

(The person must be an executive official meeting signatory requirements in

TAC §305.44(a).)

Prefix \_\_\_\_\_ Mr. \_\_\_\_\_

(e.g., Mr., Ms., Miss)

First/Last Name: \_\_\_\_\_ Tim Benefiel \_\_\_\_\_

Suffix \_\_\_\_\_

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

Credential \_\_\_\_\_

(i) Provide the applicant's mailing address as recognized by the US Postal Service:

You may verify the address at: <http://zip4.usps.com/zip4/welcome.jsp>

Street Address or P.O. Box: \_\_\_ 850 East Las Colinas Blvd \_\_\_\_\_

Internal Routing (Mail Code, Etc.): \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

State: \_\_\_\_\_ Tx \_\_\_\_\_  
ZIP Code: \_\_\_\_\_ 75039 \_\_\_\_\_

Electronic Contact Information:

Phone No.: \_\_\_\_\_ 972-556-0625 \_\_\_\_\_

Extension: \_\_\_\_\_

Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ tbenefiel@dcurd.org \_\_\_\_\_

(j) Indicate the type of Customer:

Federal Government

State Government

**County Government**

City Government

Other Government, Explain \_\_\_\_\_

(k) Number of Employees:

0-20; **21-100**; 101-250; 251-500; or 501 or higher

C. Co-applicants(s)

**Note: This section may be copied and attached to the application if there are additional co-applicants. Indicate if there are additional co-applicants:**

☒ Yes

No

- (l) If the co- applicant is currently a customer with TCEQ, provide the Customer Number (CN)? Search for your CN at <http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: \_\_\_\_\_ 602498826 \_\_\_\_\_

- (m) Provide the Legal Name of the entity (applicant) applying for this permit:  
\_\_\_\_\_ Irving Flood Control District, Section I \_\_\_\_\_

- (n) Provide the name and title of the person signing the application:  
(The person must be an executive official meeting signatory requirements in TAC §305.44(a).)

Prefix: \_\_\_\_\_ Mr. \_\_\_\_\_

(e.g. Mr., Ms., Miss)

First/Last Name: \_\_\_\_\_ Tim Benefiel \_\_\_\_\_

Suffix: \_\_\_\_\_

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

Credential: \_\_\_\_\_

- (o) Provide the applicant's mailing address as recognized by the US Postal Service:

You may verify the address at: <http://zip4.usps.com/zip4/welcome.jsp>

Street Address or P.O. Box: \_\_\_\_P.O. Box 140035\_\_\_\_

Internal Routing (Mail Code, Etc.): \_\_\_\_\_

City: \_\_\_\_\_Irving\_\_\_\_\_

State: \_\_\_\_\_Tx\_\_\_\_\_

ZIP Code: \_\_\_\_\_75014\_\_\_\_\_

**Electronic Contact Information:**

Phone No.: \_\_\_\_\_972-556-0625\_\_\_\_\_

Extension: \_\_\_\_\_

Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_tbenefiel@dcurd.org\_\_\_\_\_

- (p) Indicate the type of Customer:

Federal Government

State Government

County Government

City Government

**Other Government**, Explain \_\_\_Flood Control District\_\_\_\_\_

- (q) Number of Employees:

0-20; **21-100**; 101-250; 251-500; or 501 or higher

**D. Co-applicants(s)**

**Note: This section may be copied and attached to the application if there are additional co-applicants. Indicate if there are additional co-applicants:**

☒ **Yes**

No

- (r) If the co- applicant is currently a customer with TCEQ, provide the Customer Number (CN)? Search for your CN at <http://www12.tceq.state.tx.us/crpub/index.cfm?fuseaction=cust.CustSearch>

CN: \_\_\_\_\_602498834\_\_\_\_\_

- (s) Provide the Legal Name of the entity (applicant) applying for this permit: \_\_\_\_\_Irving Flood Control District, Section III\_\_\_\_\_
- (t) Provide the name and title of the person signing the application:

(The person must be an executive official meeting signatory requirements in TAC §305.44(a).)

Prefix: \_\_\_\_\_ Mr. \_\_\_\_\_

(e.g. Mr., Ms., Miss)

First/Last Name: \_\_\_\_\_ TinBenefiel \_\_\_\_\_

Suffix: \_\_\_\_\_

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

Credential: \_\_\_\_\_

- (u) Provide the applicant's mailing address as recognized by the US Postal Service:

You may verify the address at: <http://zip4.usps.com/zip4/welcome.js p>

Street Address or P.O. Box: \_\_\_\_\_ 850 E Las Colinas Blvd \_\_\_\_\_

Internal Routing (Mail Code, Etc.): \_\_\_\_\_

City: \_\_\_\_\_ Irving \_\_\_\_\_

State: \_\_\_\_\_ Tx \_\_\_\_\_

ZIP Code: \_\_\_\_\_ 75039 \_\_\_\_\_ Electronic

Contact Information:

Phone No.: \_\_\_\_\_ 972-556-0625 \_\_\_\_\_

Extension: \_\_\_\_\_

Fax No.: \_\_\_\_\_

E-mail Address: \_\_\_\_\_ tbenefiel@dcurd.org \_\_\_\_\_

- (v) Indicate the type of Customer:

Federal Government

State Government

County Government

City Government

**Other Government**, Explain: \_\_\_\_\_ Flood Control District \_\_\_\_\_

- (w) Number of Employees:

0-20; **21-100**; 101-250; 251-500; or 501 or higher





# ATTACHMENT 1



## **Required Attachments**

Provide the following attachments to the application:

(a) **Attachment 1**

Provide an in-dept description of all proposed modifications to the Storm Water Management Program (SWMP) or existing TPDES permit requirements for both the permittee and co-permittees. Provide rationale, based on findings collected during the previous TPDES permit term or from other sources, to support the proposed modifications.

The City of Irving proposed and submitted a new SWMP to TCEQ in 2020, and a revised draft in January of 2021. We never received comments, approval, or denial of any sort after the revised draft was submitted. There was a major lack of communication on how Phase I MS4s should be conducting their programs and providing annual reports to TCEQ based on the confusion surrounding the status of submitted/resubmitted SWMPs. I think we are pretty happy with the resubmitted 2021 SWMP as a guidance document for the next permit term, but I'm still in the dark with regards to the state regulator's position.





# **CITY OF IRVING STORMWATER MANAGEMENT PROGRAM**

TPDES Permit No. WQ0004691000

Renewed: December 10, 2019

Permit Term: 2019 – 2024

**Co-Permittees:**

Dallas County Flood Control District No.1  
Dallas County Utility and Reclamation District  
Irving Flood Control District, Section I  
Irving Flood Control District, Section III

## COMMONLY USED ACRONYMS

BMP	Best Management Practice	NCTCOG	North Central Texas Council of Governments
CFR	Code of Federal Regulations	NOC	Notice of Change
CGP	Construction General Permit, TXR150000	NOI	Notice of Intent
CIP	Capital Improvement Program	NOT	Notice of Termination
COG	Council of Governments	NOV	Notice of Violation
CWA	Clean Water Act	NPDES	National Pollutant Discharge Elimination System
DART	Dallas Area Rapid Transit	NTTA	North Texas Tollway Authority
DCFCD1	Dallas County Flood Control District No. I	O&M	Operations and Maintenance
DCURD	Dallas County Utility and Reclamation District	OSSF	On-Site Sewage Facilities
DMC	Daily Maximum Concentration	PS	Point Source
DWFS	Dry Weather Screening Program	POTW	Publicly Owned Treatment Works
ECP	Erosion Control Plan	PPE	Personal Protective Equipment
EPA	Environmental Protection Agency	PTMP	Parks Turf Maintenance Program
EPCRA	Emergency Planning and Community Right-to-Know Act	ROW	Right-Of-Way
FCD	Flood Control District	RWWCP	Regional Wet Weather Characterization Program
FOG	Fats, Oil, Grease	SCADA	Supervisory Control and Data Acquisition
FR	Federal Register	SOP	Standard Operating Practices
GPS	Global Positioning System	SSES	Sanitary Sewer Evaluation Survey
HAZMAT	Hazardous Materials	SSO	Sanitary Sewer Overflows
HHW	Household Hazardous Waste	SWMP	Stormwater Management Program
IDDE	Illicit Discharge Detection and Elimination	SWP3/ SWPPP	Stormwater Pollution Prevention Plan
IFCD1	Irving Flood Control District Section I	TAC	Texas Administrative Code
IFCD3	Irving Flood Control District Section III	TCEQ	Texas Commission on Environmental Quality
KIB	Keep Irving Beautiful	TMDL	Total Maximum Daily Load
LCMP	Litter Control Management Program	TPDES	Texas Pollutant Discharge Elimination System
LEPC	Local Emergency Planning Committee	TRE	Trinity Railway Express
MAL	Minimum Analytical Level	TSWQS	Texas Surface Water Quality Standards
MCM	Minimum Control Measure	TWC	Texas Water Code
MDU	Municipal Drainage Utility	USACE	United States Army Corp of Engineers
MEP	Maximum Extent Practicable	WLA	Waste Load Allocations
MS4	Municipal Separate Storm Sewer System	WWSP	Wet Weather Screening Programs
MSGP	Multi-Sector General Permit, TXR050000		

# Table of Contents

## COMMONLY USED ACRONYMS

## TABLE OF CONTENTS

<b>I. INTRODUCTION.....</b>	<b>1</b>
I. INTRODUCTION .....	1
II. PERMIT BACKGROUND .....	1
III. LEGAL AUTHORITY .....	1
IV. STORMWATER MANAGEMENT PROGRAM DEVELOPMENT .....	2
V. PERMIT AREA .....	2
VI. IMPLEMENTATION PLAN.....	2
VII. ANNUAL REPORTING .....	3
VIII. RECORD KEEPING .....	3
<b>II. MCM 1: MS4 MAINTENANCE ACTIVITIES .....</b>	<b>4</b>
I. STRUCTURAL CONTROLS.....	4
II. FLOATABLES .....	4
III. ROADWAYS .....	4
<b>III. MCM 2: POST-CONSTRUCTION STORMWATER CONTROL .....</b>	<b>5</b>
I. IMPLEMENTATION AND ENFORCEMENT .....	5
A. New Development .....	5
B. Redevelopment.....	5
II. COMPREHENSIVE MASTER PLANNING.....	5
III. POST-CONSTRUCTION INSPECTION AND MAINTENANCE .....	5
IV. FLOOD CONTROL PROJECTS .....	6
<b>IV. MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION .....</b>	<b>6</b>
I. PROHIBITED DISCHARGES .....	7
A. Description of Program .....	7
B. Ongoing Field Screening Activities and Target Areas .....	7
C. Procedures to Investigate Illicit Discharges .....	7
D. Procedures to Prevent, Contain, and Respond to Spills .....	7
E. Promotion of Public Reporting of Illicit Discharges .....	7
F. Education and Public Information Activities .....	8
G. Control of Infiltration from Sanitary Sewers to MS4 .....	8
II. DISCHARGES NOT CONSIDERED ILLICIT – ALLOWABLE .....	8
III. ALLOWABLE DISCHARGES – ALL CATEGORIES.....	8
IV. ALLOWABLE DISCHARGES – MISCELLANEOUS NONSTORMWATER DISCHARGES .....	8
V. DISCHARGES FROM FIRE FIGHTING ACTIVITIES.....	8
VI. PROHIBITION OF ILLICIT NON-STORMWATER DISCHARGES .....	9
VII. ELIMINATION OF ILLICIT DISCHARGES AND IMPROPER DISPOSAL .....	9
A. Enforcement Process .....	9
B. Maintenance of Techniques and Enforcement Actions.....	9
VIII. OVERFLOWS AND INFILTRATION .....	9
IX. HOUSEHOLD HAZARDOUS WASTE, USED MOTOR VEHICLE FLUIDS, AND OTHER WASTES .....	10
X. MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS .....	10
XI. ILLICIT DISCHARGE INSPECTION PRIORITY AREAS .....	10
XII. NPDES AND TPDES PERMITTEE LIST.....	10
XIII. MS4 MAP .....	11
XIV. SPILL PREVENTION AND RESPONSE .....	11
<b>V. MCM 4: POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS .....</b>	<b>11</b>
I. POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM .....	11



A. Identify and Implement.....	11
B. Training for Municipal Employees .....	12
C. Structural Control Maintenance .....	12
II. WASTE HANDLING .....	12
III. PESTICIDE, HERBICIDE, AND FERTILIZER APPLICATION .....	12
IV. LIST OF MUNICIPAL FACILITIES .....	13
<b>VI. MCM 5: INDUSTRIAL AND HIGH-RISK RUNOFF.....</b>	<b>13</b>
I. IDENTIFICATION OF HIGH-RISK RUNOFF SITE .....	13
II. MCM 5 PROVISIONS .....	14
A. Inspection and Control Measures .....	14
B. Industrial and High-Risk Monitoring .....	14
<b>VII. MCM 6: CONSTRUCTION SITE STORMWATER RUNOFF .....</b>	<b>15</b>
I. CONSTRUCTION SITE RUNOFF ORDINANCE .....	15
II. MCM 6 PROVISIONS .....	15
A. Erosion and Sediment Control .....	15
B. Construction Site Operator Requirements .....	15
C. Inspection and Enforcement Control .....	15
D. Education and Training .....	16
E. NPDES or TPDES Responsibility Notifications to Construction Site Operators .....	16
F. Site Plan Review Procedures.....	16
G. Public Input Procedures .....	16
H. Erosion Control Plan Review.....	17
I. Inspection Frequency and Follow up Procedures .....	17
J. Implementation and Maintenance of Structural and Non-Structural BMPs .....	17
III. LISTS OF SITES.....	18
IV. OTHER ELEMENTS OF MCM 6 .....	18
A. Construction Contractor Requirements .....	18
B. Site Plan Reviews .....	18
C. City Staff Assignments and Training .....	18
<b>VIII. MCM7: PUBLIC EDUCATION, OUTREACH, INVOLVEMENT, AND PARTICIPATION .....</b>	<b>19</b>
I. PUBLIC EDUCATION AND OUTREACH .....	19
A. Documentation and Assurance of SWMP Public Awareness .....	19
B. Implementation of Public Education and Outreach.....	19
II. PUBLIC INVOLVEMENT AND PARTICIPATION .....	20
<b>IX. MCM 8: MONITORING, EVALUATING, AND REPORTING .....</b>	<b>20</b>
I. DRY WEATHER SCREENING PROGRAM .....	20
A. Description of DWFS Procedures .....	20
II. WET WEATHER SCREENING PROGRAM .....	21
III. INDUSTRIAL AND HIGH-RISK RUNOFF MONITORING PROGRAM .....	23
IV. STORM EVENT DISCHARGE MONITORING .....	23
V. FLOATABLES MONITORING .....	24
<b>X. IMPAIRED WATERBODIES AND TOTAL MAXIMUM DAILY LOAD (TMDL) REQUIREMENTS .....</b>	<b>24</b>
<b>XI. MCM BMP IMPLEMENTATION SCHEDULE</b>	

## APPENDICES

- A. CITY MS4 BOUNDARY MAP
- B. TMDL TABLE
- C. TMDL MAP
- D. IMPLEMENTATION PLAN (I-PLAN)

## INTRODUCTION

The City of Irving (the City) is subject to the requirements of the Texas Pollutant Discharge Elimination System (TPDES) as administered by the Texas Commission of Environmental Quality (TCEQ). The City's TPDES stormwater permit ("The Permit") subsequently renewed on December 10, 2019. The renewal of the stormwater permit requires the City of Irving to review and assess their existing Stormwater Management Program (SWMP) and develop a new program implementing best management practices which comply with the permit requirements. A copy of the TCEQ Municipal Separate Storm Sewer System (MS4) General Permit #WQ0004691000 can be found at [www.cityofirving.org/2934/Stormwater-Management](http://www.cityofirving.org/2934/Stormwater-Management).

As required by the Permit, the program must be developed to meet the requirements set forth by TCEQ. The program documents the best management practices chosen by the City of Irving to address community-wide stormwater quality issues, and a schedule for implementation over the five-year permit term. The goal of the SWMP is to assist in the effort to reduce pollutants in stormwater runoff to the "maximum extent practicable" and ultimately to reduce the discharge of pollutants into the Municipal Separate Storm Sewer System (MS4) which includes all stormwater conveyance systems; streets, storm drain systems, road side ditches, streams, rivers and other water bodies.

## II. PERMIT BACKGROUND

In 1948, Congress adopted the Federal Water Pollution Control Act. In 1972, that law was significantly amended, and its subsequent amendment is commonly known as the Clean Water Act (CWA). The objective of the CWA is to restore and maintain the chemical, physical, and biological integrity of the Nation's waters. Under the CWA, the National Pollutant Discharge Elimination System (NPDES) was established to protect the waters of the United States. The U.S. Environmental Protection Agency (EPA) was appointed to govern the rules on how the program would be implemented.

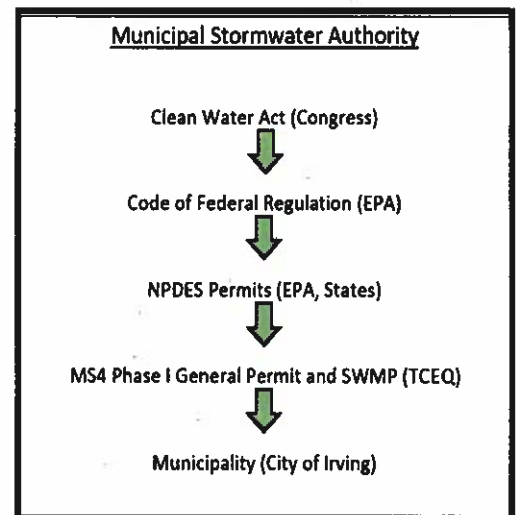
The NPDES program then established the MS4 program into two phases. Phase I, issued in 1990, requires medium and large cities or certain counties with populations of 100,000 or more to acquire the NPDES permit by submitting a Stormwater Management Program (SWMP) that addresses how the municipality would reduce pollutant discharges, protect water quality, and satisfy the water quality requirements of the CWA. In 1998, the EPA and Texas Commission on Environmental Quality (TCEQ) signed an agreement for the EPA to transfer the regulatory authority over to TCEQ as the law applies in the State of Texas. Thus, the NPDES became Texas Pollutant Discharge Elimination System (TPDES) under TCEQ's authority. Phase II, issued in 1999, requires regulated small municipalities serving a population of less than 100,000 to obtain NPDES permit coverage for their stormwater discharges.

**The City of Irving's Phase I Permit (#WQ0004691000) was originally issued on September 11, 1998. The City's SWMP was revised to replace the existing SWMP (last revised on Oct. 27, 2017). The SWMP details the Best Management Practices (BMPs) that the city currently uses, as well as the new requirements set forth in the renewed permit that went into effect Dec. 10, 2020. These ongoing activities, best management practices, measurable goals and schedules are presented in the body of this SWMP.**

## III. LEGAL AUTHORITY

The City of Irving is operated as a council-manager form of government. Elected officials include the mayor and eight city council members. The city regulates activities within its boundaries through ordinances designed to protect the health, safety, and welfare of its citizens and the environment.

Several ordinances support the various aspects of the SWMP including but not limited to the Stormwater Pollution Control Ordinance, Flood Damage Prevention Ordinance, Nuisance Ordinance, Emergency Management Ordinance, Backflow Prevention Ordinance, Animal Control Ordinance, Construction Ordinance, and the Industrial Waste and Water Pollution Control Ordinance.



Listed as co-permittees since 1993 associated with the City of Irving's MS4 permit, are Dallas County Flood Control District No. 1 (DCFCD1), Dallas County Utility and Reclamation District (DCURD), Irving Flood Control District Section I (IFCD1), and, Irving Flood Control District Section III (IFCD3). The flood control districts are only responsible for the development, maintenance and repair of stormwater infrastructure in areas they have legal control over. Activities also include removal of sedimentation, silt, and debris including floatables from all their designated areas of stormwater conveyance.

#### **IV. STORMWATER MANAGEMENT PROGRAM DEVELOPMENT**

The Permit establishes eight minimum control measures (MCMs). Each MCM contains components that must reduce the discharge of pollutants to the maximum extent practicable. The City of Irving is required to address all the following MCMs in the SWMP:

The MCMs are as follows:

MCM 1: MS4 Maintenance Activities

MCM 2: Post-Construction Stormwater Control Measures

MCM 3: Illicit Discharge Detection and Elimination

MCM 4: Pollution Prevention & Good Housekeeping for Municipal Operations

MCM 5: Industrial & High-Risk Runoff

MCM 6: Construction Site Stormwater Runoff

MCM 7: Public Education, Outreach, Involvement & Participation

MCM 8: Monitoring, Evaluating, & Reporting

Various BMPs have been developed for each of the eight MCMs. BMPs are expected to minimize or eliminate the discharge of pollutants to the MS4 and provide water quality protection for receiving water bodies. As described in Part III.A.2 of the Permit:

New and existing elements of the SWMP must be modified or revised as needed to include measurable goals. The measurable goals must include, as appropriate, the months and years when the permittees will undertake required actions, including interim milestones and the frequency of the action of each minimum control measure (MCM) described in Part III.B. of this permit. As such, this SWMP sets measurable goals and provides a schedule for the implementation of the BMPs. Implementation of the selected BMPs is expected to result in reductions of pollutants discharged into the MS4.

#### **V. PERMIT AREA**

The City of Irving is located in Dallas County approximately 13 miles (21 km) west of downtown Dallas, TX. The current city limit covers approximately 67.6 square miles (175.1 km<sup>2</sup>) of land, and 0.4 square miles (1.0 km<sup>2</sup>) of water. The permit area is comprised of eight (8) watersheds: Delaware Creek; Bear Creek; West Irving Creek; Brookhollow Basin; Hackberry Creek; Lake Carolyn; Grapevine Creek, and Valley Ranch. The four (4) major watersheds are Delaware Creek, Bear Creek, West Irving Creek, and Brookhollow Basin which comprise 81 percent of the assessment area. Areas not under city jurisdiction are areas controlled by flood control districts or have small drainage segments. A map of the permit area can be found in Appendix A.

#### **VI. IMPLEMENTATION PLAN**

A detailed implementation plan is included in Appendix D which identifies the year each goal will be achieved over the five- year period of the program. The plan outlines the BMPs with respective measurable goals and responsible departments, grouped by each MCM. The existing BMPs that are to be implemented annually will continue to be monitored and enforced every year during this permit term. A primary goal for the City's implementation plan is to ensure clarity so the City and TCEQ can easily keep track of the yearly activities and progress towards reducing pollutants to the MEP.

## **I. ANNUAL REPORTING**

The City of Irving will prepare and submit an annual report to the TCEQ's Stormwater Team and TCEQ Region 4 office within 90 days of the end of each permit reporting year December 31st. The city of Irving has chosen the reporting year to be the fiscal year (October 1st to September 30th).

The Annual report will address the requirements listed in the City of Irving's TPDES Phase I MS4 permit. The report will document the stormwater related activities for the previous year, evaluate the success of each BMP relative to their measurable goals. As part of new requirements, the annual report will also address the new TMDL requirements.

The annual report will be submitted to the TCEQ office address as follows:

Texas Commission of Environmental Quality  
Stormwater Team; MC – 148  
P.O. Box 13087  
Austin, Texas 78711-3087

A copy of the report must also be submitted to the TCEQ Region 4 (Dallas/ Fort Worth) office address as follows:

TCEQ Region 4 (Dallas/Fort Worth)  
2309 Gravel Dr  
Fort Worth, Texas 76118-6951

The City shall keep a copy of the annual report in house and post the report on the City's official website. The electronic version of the SWMP will be posted within 30 days of the approval date and the annual report within 30 days of the submittal date.

## **VIII. RECORD KEEPING**

The City will maintain all records including a copy of this TPDES general permit, and records of all data used to complete the application (NOI) for this general permit and satisfy the public participation requirements, for a period of at least three years, or for the remainder of the term of this general permit, whichever is longer. The documents shall be retained at:

City of Irving City Hall- Capital Improvements office 2<sup>nd</sup> floor 825 West Irving Blvd  
Irving, Texas 75060

The City will post the approved SWMP and Annual reports on the following website:

<https://www.cityofirving.org/stormwater-management>



## **MCM 1: MS4 MAINTENANCE ACTIVITIES**

The City of Irving and its four Flood Control Districts (FCDs) Co-Permittees have an extensive system of lakes, ponds, canals and channel improvements which act as structural controls. Regular maintenance and inspection to mitigate and/or reduce the negative water quality impacts and to ensure that stormwater control structures are functioning appropriately.

MS4 maintenance activities of structural controls, floatables, and roadways are implemented in accordance with this BMP as generally described on the implementation schedule presented later in this document.

### **i. STRUCTURAL CONTROLS**

The City of Irving's CIP Department oversees the stormwater structural control program to the maximum extent practicable (MEP), the city operates and maintains MS4 storm water controls in such a manner to reduce erosion and discharge of pollutants. The maintenance program structures include; detention/retention ponds, storm drain inlets, culverts, concrete channels, subsurface storm pipes, as well as debris collector systems. The program includes general maintenance, repair, erosion control, including silt and debris removal operations.

#### **Flood Control Districts**

All four Flood Control Districts (DCFCD1, DCURD, IFCD#1, IFCD#3) each have a structural control program which controls pollutants to the maximum extent practicable (MEP). The districts maintain storm water controls in such a manner to reduce erosion and discharge of pollutants. The maintenance program structures include; levees, detention/retention ponds, culverts, and concrete channels. The program includes general maintenance, repair, erosion control, including silt and debris removal operations.

### **ii. FLOATABLES**

The city continues to implement a program to reduce to the MEP the discharge of floatables which includes source controls, structural controls and other appropriate controls and mitigation activities where necessary.

The City has several departments (Parks, CIP, KIB, SWS, Streets) responsible for floatable trash and debris removal from City facilities, Parks, Right-of-Ways, medians, drainage channels, storm water structures, curb inlets, inlet trash baskets, and debris collectors in the Municipal Separate Storm Sewer System (MS4).

Most park land properties are maintained by city forces; however, the department administers several grounds maintenance contracts which provide regular litter control on medians; rights-of-way; state highways; and building grounds properties. The Hunter Ferrell Landfill collects litter, debris and trash on the access roads to the landfill, on a daily basis. The waste is collected and disposed of at the landfill. Keep Irving Beautiful (KIB) allows public volunteers to participate in litter control clean up events periodically throughout the year.

#### **Flood Control Districts**

All four flood control districts continue to implement a program to reduce to the MEP the discharge of floatables which includes source controls, structural controls and other appropriate controls and mitigation activities where necessary. The flood control districts each monitor and remediate trash and debris in each of their jurisdictions. The areas of floatable debris collection and removal consists of district levees, detention/retention ponds, culverts, and concrete channels.

### **iii. ROADWAYS**

The City of Irving maintains and operates its public streets, roads and highways in accordance with MEP the discharge of pollutants, including litter (floatables), impact related to deicing or sanding activities, and impact from oil and grease vehicle discharges. The program includes street sweeping activities and sanding/de-icing operations.

The City of Irving's street sweeping program consists of routes developed to provide a systematic method of sweeping all curb and gutter concrete streets, all surface level parking areas and other facilities under municipal jurisdiction. The current route methodology provides for four complete sweeps of the entire jurisdiction and ten complete sweeps of all major thoroughfares annually.

## **MCM 2: POST-CONSTRUCTION STORMWATER CONTROL**

### **i. IMPLEMENTATION AND ENFORCEMENT**

The city will continue implementation and enforcement with goals to minimize the discharge of pollutants from areas of new development and significant redevelopment after construction is completed. The city has adopted the enhanced development/redevelopment guide, iSWM Design Manual for Site Development, spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Storm Water Management and Drainage Ordinance Section 35, adopted Oct. 27, 2017. The city and co-permittees plan to continue a training program for staff and consultants to further implement a development and redevelopment program toward enhanced pollution prevention.

#### **A. NEW DEVELOPMENT**

---

To the MEP, the city will continue to limit erosion and the discharge of pollutants in storm water as a result of new development. All new development must comply with all applicable storm water discharge permits.

#### **B. REDEVELOPMENT**

---

To the MEP, the city will continue to limit erosion and the discharge of pollutants in storm water as a result of redevelopment. Most importantly, the city recognizes that the same focus and priorities are required to limit pollution from redevelopment as that of development. In fact, because redevelopment occurs within existing infrastructure that may be outdated in many ways, more attention may be required to address issues arising from redevelopment within and around older drainage systems which may require replacement due to the city's requirement that developers adhere to the iSWM Design Manual for Site Development.

### **ii. COMPREHENSIVE MASTER PLANNING**

The city continues to implement a comprehensive master planning process to include all new development and redevelopment projects that disturb one acre or more of land, including projects less than one acre that are part of a larger common plan of development or sale that will result in the disturbance of one acre or more.

The city has adopted the enhanced development and redevelopment guide, iSWM Design Manual for Site Development, spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Storm Water Management and Drainage Ordinance Sect. 35, adopted Oct. 27, 2017.

### **iii. POST-CONSTRUCTION INSPECTION AND MAINTENANCE**

The Permit requires the City to provide for the "adequate long-term operation and maintenance of BMPs." While BMPs associated with private development are the responsibility of the developer or subsequent property owners, in order for the City to ensure the adequate and long-term maintenance of BMPs, the City will develop and implement an inspection and maintenance program coordinated by Capital Improvement Program staff by permit term year three. Staff will develop a post-construction inspection program for all new development and construction that incorporates post-construction stormwater drainage, detention, and/or retention features.

The city has adopted the enhanced development/redevelopment guide, iSWM Design Manual for Site Development, spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Storm Water Management and Drainage Ordinance Sect.35, adopted October 27, 2017, which provides for long-term operation and maintenance of structural and non-structural (BMP) controls.

#### **iv. FLOOD CONTROL PROJECTS**

The city will assess the impact of flood control projects on receiving water(s) on an annual basis. The assessment will be presented in the annual report along with any applicable retrofitting of existing structural flood control devices to provide additional pollutant removal. The assessment will incorporate the following existing elements of flood control infrastructure:

The City of Irving will continue to study flooding and stormwater concerns in drainages of all watersheds. The Drainage Master Plan continues to analyze the cumulative impacts of stormwater in the city's watershed and intends to make improvements to these channels that will reduce flooding and erosion. Flood control and maintenance projects planned and implemented through the Capital Improvements Program are evaluated for potential water quality retrofits during scope creation. Flood control projects typically reduce overland flow which reduces surface erosion and pollutants that may be conveyed within large amounts of overland flow. When outfalls to streams are created or modified with a flood control project, the streams are stabilized, and velocity dissipation is incorporated into the project to reduce stream erosion. The Stormwater Capital Improvements Program also includes stream stabilization projects to reduce stream erosion in areas that are threatening public infrastructure. This effort potentially improves water quality by reducing erosion within streams.

**DCFCDD1** engineering consultants evaluate district appurtenances annually and report recommendations to the district. Recommendations address issues such as infrastructure repair, vegetation control and sediment removal to maintain sump capacity and provide flood control.

**DCURD** continues to administer an ongoing, aggressive, dredging program to maintain flood control capacity and water quality in district waterways. DCURD operations consist of 3.59 miles of levee, one pump station, one control gate and two sluice gates.

**IFCDI** manages, maintains and controls 3 ½ miles of levees, sump capacity, drainage channels, outfall channels, two pump stations, sluice gates, a SCADA control system and necessary, related appurtenances to prevent flooding to property in the district. Accumulated silt, debris and vegetation are removed from the sumps.

**IFCDIII** maintains sump capacity; drainage channels; a pump station; sluice gates; and a gravity outfall channel to control flooding.

#### **MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION**

An illicit discharge is any discharge to the storm drainage system that is not composed entirely of stormwater or of non-stormwater discharges allowed as specified in the City's Municipal Stormwater Permit. Illicit discharges may originate from a variety of sources, including illegal dumping, sanitary sewer overflow, and incidental spills such as oil or gas. Illicit discharges are defined by the U.S. EPA as "any discharge to the MS4 that is not composed entirely of stormwater. However, allowable discharges under a TPDES permit or waters used for firefighting operations." All other discharges to the MS4 are prohibited.

The City of Irving illicit discharge detection and elimination (IDDE) program focuses on those activities that detect and eliminate illicit discharges to the storm sewer system and addresses household hazardous waste collection, illegal dumping, yard wastes, animal wastes and sanitary sewer overflows. The IDDE program consists addresses the following: Program Descriptions and Procedures, Allowable and Prohibited Stormwater Discharges; Elimination of Illicit Discharges and Improper Disposal; Overflows and Infiltration, Household Hazardous Waste (HHW); MS4 Screening and Illicit Discharge Inspections; MS4 Mapping; and Spill Prevention and Response. The City of Irving receives complaints regarding illicit discharges from varying sources and issues enforcement actions to those that are in non-compliance.

## **I. PROHIBITED DISCHARGES**

### **A. DESCRIPTION OF PROGRAM**

The city implements inspection procedures and methods at a frequency that allows effective detection and prevention of illicit discharges. The city makes allowances for certain types of non-storm water discharges to the municipal separate storm sewer system under Irving Code of Civil and Criminal Ordinances, Chapter 41, Sec. 41-61. General Prohibition.

The city prohibits certain types of non-storm water discharges to the Municipal Separate Storm Sewer System under Irving Code of Civil and Criminal Ordinances, Chapter 41, Sec. 41-62. Specific prohibitions and requirements. The city's SWMP now incorporates many of the following elements (B through G). All will be fully implemented by the end of Permit Year one.

### **B. ONGOING FIELD SCREENING ACTIVITIES AND TARGET AREAS**

The City of Irving staff in CIP and Water Utilities Departments follow internal Standard operating procedures to conduct field screens of illicit discharges. These procedures are written SOP's that are reviewed and updated as needed on an annual basis. Some of the procedures are covered under other MCM sections within this document. The city conducts monthly monitoring of targeted areas that have a history of illicit discharges. The sites are prioritized by historical records of illicit discharges, aging wastewater collections infrastructure, heavy industrial areas, and areas that are not monitored by any other program. The city maintains a list of these locations, which is updated on an annual basis.

### **C. PROCEDURES TO INVESTIGATE ILLCIT DISCHARGES**

The City of Irving conducts investigations on illicit discharges when one is present. The procedures are written into SOP's that are reviewed and updated as needed on an annual basis. The city conducts monthly monitoring of targeted areas that have a history of illicit discharges. The city maintains a list that is update annually with these locations. The sites are prioritized by historical records of illicit discharges, aging wastewater collections infrastructure, heavy industrial areas, and areas that are not monitored by any other program.

### **D. PROCEDURES TO PREVENT, CONTAIN, AND RESPOND TO SPILLS**

The City's Capital Improvement Program and Water Utilities personnel utilize internal standard operating procedures to clean or remediate spills that have the potential to impact the MS4. If a spill identified reaches the MS4, the city will locate the appropriate responsible party to remediate the issue. In the case that a responsible party cannot be identified within a timely manner, CIP and Water Utilities staff will work with the city's Risk Management team on remediating the spill utilizing the city's designated hazardous materials contractor. Staff will also refer to the city's standard operating procedure titled: Annex Q-Hazardous Materials and Oil Spill Plan. This standard operating procedure is a city-wide protocol that outlines the city's response to these situations.

### **E. PROMOTION OF PUBLIC REPORTING OF ILLICIT DISHCARGES**

The City of Irving has instituted a robust system that encourages public reporting of potential illicit discharges and is described in MCM 7: Section II.



## **F. EDUCATION AND PUBLIC INFORMATION ACTIVITIES**

The City of Irving educates residents on the importance of preventing non-permitted stormwater discharges via the various educational resources available to the city itemized in MCM 7: Section I.

## **G. CONTROL OF INFILTRATION FROM SANITARY SEWERS TO MS4**

The City of Irving has developed programs and SOPs to detect and remove illicit discharges, and to control and prevent improper disposal into the MS4 of materials such as used oil or seepage from municipal sanitary sewers. These programs include:

- Implementation and enforcement of applicable ordinances to prevent illicit discharges to the MS4.
- Procedures to conduct ongoing field screening activities during the life of the permit.
- Periodic investigations and inspections of portions of the separate storm sewer system.
- Controls to limit infiltration of seepage from municipal sanitary sewers to the MS4.

## **ii. DISCHARGES NOT CONSIDERED ILLICIT - ALLOWABLE**

As prescribed by the permit, the following discharges are not addressed as illicit discharges or prohibited from entering the MS4:

- A. Discharges regulated by a separate NPDES or TPDES permit.
- B. Discharges for which an NPDES or TPDES permit application has been submitted or neither an NPDES nor TPDES permit is required.
- C. Miscellaneous non-storm water discharges as described under Section IV of this MCM.

## **iii. ALLOWABLE DISCHARGES – ALL CATEGORIES**

See Section IV of this MCM (follows) for identification of all categories of miscellaneous, non-storm water discharges into the MS4 that are allowable as not being significant pollutant contributors.

## **iv. ALLOWABLE DISCHARGES – MISCELLANEOUS NON-STORMWATER DISCHARGES**

Categories of non-storm water discharges that the permittees may exempt from the city's prohibition on non-storm water entering the MS4 include the following: (A) water line flushing; (B) landscape irrigation; (C) diverted stream flows; (D) rising groundwater; (E) uncontaminated groundwater infiltration; (F) uncontaminated pumped ground water; (G) discharges from potable water sources; (H) foundation drains; (I) air-conditioning condensation; (J) irrigation water; (K) springs; (L) water from crawl space pumps; (M) footing drains; (N) lawn watering; (O) street wash water; (P) individual residential vehicle washing; (Q) wash waters using only potable water and which are similar in quality and character to street wash water or individual residential vehicle washing but without the use of detergents or surfactants; (R) flows from riparian habitats and wetlands; (S) de-chlorinated swimming pool discharges; (T) other allowable non-storm water discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1); (U) other allowable non-storm water discharges as listed in the TPDES Construction General Permit No. TXR150000 and TPDES Multi-Sector General Permit No. TXR050000; as well as (V) other similar occasional incidental non-storm water discharges, unless the TCEQ develops permits or regulations addressing these discharges.

## **v. DISCHARGES FROM FIRE FIGHTING ACTIVITIES**

The City of Irving Emergency Operation Plan: Annex F - Firefighting under Section VI. Organization and Assignment of Responsibilities task Water Utilities Environmental Compliance with Responding to any discharges or flows from firefighting foams that are identified as having a significant Impact on the MS4. Classification and characterization of significant impact will be evaluated on a case by case basis. While the

permit identifies fire-fighting discharges as allowable, the City will address and track these discharges and flows.

#### **vi. PROHIBITION OF ILLICIT NON-STORMWATER DISCHARGES**

Any non-storm water discharges are prohibited if they cause significant pollution as provided in Chapter 41 Section 41-6 General Prohibition of Pollution.

#### **vii. ELIMINATION OF ILLICIT DISCHARGES AND IMPROPER DISPOSAL**

##### **A. ENFORCEMENT PROCESS**

As authorized by city code(s) prohibiting the discharge of pollution to the MS4 and general improper disposal, the city requires operators of an illicit discharge or improper disposal practice to eliminate the illicit discharge or stop the improper practices as quickly as possible. If the operator does not eliminate the illicit discharge within 24 hours, the city will continue requiring the removal of the discharge to an expeditious schedule. The city requires operators to take all reasonable measures to eliminate or minimize the discharge of pollutants to the MS4.

##### **B. MAINTENANCE OF TECHNIQUES AND ENFORCEMENT ACTIONS**

The city takes appropriate actions and enforcement procedures for removing the source of an illicit discharge and revises such actions when necessary as allowed within its Civil and Criminal Code of Ordinances. The following is a more detailed description of the city's techniques and enforcement actions related to this MCM and others throughout the SWMP.

#### **viii. OVERFLOWS AND INFILTRATION**

The city continues to address the discharge of pollutants from sanitary sewers into the MS4. The city performs a variety of activities as part of its program to eliminate spills, overflows, inflow, and infiltration. These include smoke testing, manhole inspections, dyed-water flooding, a regular program of preventive maintenance cleaning, and TV inspections followed by remedial construction. Several thousand linear feet of sanitary sewer services and mains will be cleaned as part of the Preventative Maintenance program. In addition, manhole repairs and maintenance are performed as needed.

The city has adopted a new Sanitary Sewer Overflow Response Plan, as part of the Sanitary Sewer Overflow Initiative as proposed in 2019, to prevent unpermitted chronic dry and wet weather overflows from sanitary sewer systems. The Sanitary Sewer Overflow Initiative is in association with the NCTCOG and TCEQ "Implementation Plan Twenty-two Total Maximum Daily Loads (TMDL) for Bacteria in the Greater Trinity River Region" (the "I-Plan") The full Response Plan will be completed on a 10-year schedule. The city investigates incidents to determine the cause and find a preventive solution, which may include overflows caused by deteriorated or undersized lines, excessive inflow and infiltration, and improper maintenance.

The City responds to unforeseen sanitary sewer overflows chronic dry and wet weather overflows and immediately investigates any incident to determine the cause and find a preventive solution, which may include overflows caused by power outage, line breakage or blockage, and vandalism, deteriorated or undersized lines, excessive inflow and infiltration, and improper maintenance.

The city continues its ongoing program to limit seepage from sanitary sewers into the MS4, including, but not limited to, seepage due to minor cracks in lines or line joints separating due to land subsidence. The city has Standard Operating procedures to address sewer calls and use of equipment necessary to perform these activities.

The city operates a SCADA (computerized Supervisory Control and Data Acquisition) system to manage water distribution and wastewater collection including 10 sanitary sewer lift stations. SCADA continuously monitors and reports the level of wastewater in the lift stations; the status of pumps; alerts operators to power failures; and provides an intrusion alarm. Continuous monitoring of the lift stations alerts SCADA operators to potential maintenance issues that staff can respond to before a more serious failure occurs.

Controllers and back-up float systems (in the event that the controllers fail) are installed at all lift stations. The controllers provide extensive information about how the pumps at the lift stations are operating which promotes more efficient operation and helps minimize downtime.

In addition to monitoring lift stations via the SCADA system, the city deploys two manhole covers with flow monitors to prevent sanitary sewer overflows. These devices monitor sewage in targeted parts of the system and notify the SCADA operators if levels reach a pre-determined level so that a crew can be dispatched to the location for maintenance prior to an overflow occurring.

In November 2017, the city adopted a comprehensive Wastewater Master Plan to meet regulatory obligations by providing long-term guidance and prioritization for sanitary sewer interceptor and collection system capital improvements. Projects resulting from the plan have been designed and constructed.

The city continues to evaluate the sanitary sewer system for inflow and infiltration problems.

#### **ix. HOUSEHOLD HAZARDOUS WASTE, USED MOTOR VEHICLE FLUIDS, AND OTHER WASTES**

The city prohibits the discharge or disposal of used motor vehicle fluids and household hazardous wastes, and the intentional disposal of collected quantities of grass clippings, leaf litter and animal wastes into the MS4. To facilitate the public's compliance with this prohibition, the city provides the following services.

The City of Irving provides residential curbside collection of used motor oil, antifreeze, transmission fluid and a variety of household hazardous wastes via the Special Waste Collection program. The city also provides brush and bulky waste residential collection. Animal wastes may be disposed by the public in the city's normal municipal trash collection process. The city is tracking and promoting these programs for full documentation during this permit cycle.

City participation in the Dallas Area Household Hazardous Waste Network provides all Irving residents with a convenient, efficient and environmentally friendly way to dispose of household hazardous wastes such as pesticides, herbicides, fertilizers, auto fluids, batteries, light bulbs, paint, pool chemicals and other household chemicals.

#### **x. MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS**

The City of Irving Dry Weather Field Screening program screens outfalls throughout the city a minimum of once every five years. Illicit discharge inspections are also conducted in response to citizen complaints, emergency response to spills and fish kills. Non-compliance violations found are issued enforcement actions. In the case of a violation a follow up inspection is scheduled to observe the violation was corrected.

#### **xi. ILLICIT DISCHARGE INSPECTION PRIORITY AREAS**

City staff will continue to evaluate a list of priority areas likely to have illicit discharges. Staff will review and update a as necessary.

#### **xii. NPDES AND TPDES PERMITTEE LIST**

The city maintains an updated list of discharges that discharge directly to the MS4 and that have been issued an NPDES or a TPDES permit. The list includes the name, location and permit number (if known) of the discharger. CIP maintains an updated list of Notices of Intent (NOIs). The construction database is populated with information derived from NOI and SWPPPs submitted to the City.

### **xiii. MS4 MAP**

The City of Irving has a current accurate MS4 map detailing all known publicly owned MS4 outfalls and their receiving waters. CIP staff with the assistance of the City's GIS department have documented outfalls throughout the MS4. The map includes the waters of the U.S. that receives water conveyed by these outfalls. The MS4 map will be updated annually to include new outfalls built or discovered not on original map. The City of Irving uses GPS to locate outfalls and photographs for documenting baseline conditions. The city documents the source information used to develop the MS4 map and verifies map updates. The city will ensure that the mapping requirements follow Part IIIB.2.c. xiii for any new additions to the MS4. The city will continue to evaluate all existing portions of MS4 and its mapping requirements.

### **xiv. SPILL PREVENTION AND RESPONSE**

The City's Hazardous Materials team through Irving's Fire Department is responsible for responding to hazardous material spills and discharges. Response activities include an assessment of the spill, as well as the level of health and environmental concerns. Fire personnel will evaluate the situation and provide the necessary level of support, coordination and control of overall emergency scene. Once the initial hazard has been contained and any safety issues mitigated by Fire, CIP Department personnel is contacted for monitoring and cleanup of the material from the MS4, soil, water or any other contaminated areas. If a responsible party is known, CIP staff monitor the cleanup initiated by the private entities to ensure all the material is removed and disposed of properly.

## **MCM 4: POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS**

### **i. POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM**

The Pollution Prevention and Good Housekeeping Program consists of Best Management Practices (BMP's) that focus training municipal employees on how to prevent pollutant runoff in stormwater from municipal operations into the City's MS4. The approved BMP's implemented will reduce the discharge of pollutants from road repair, equipment yards, material storage areas and maintenance facilities. The program will ensure proper disposal of removed wastes from the MS4; Implement controls to reduce pesticide, herbicide, and fertilizer discharge; train municipal employees in good housekeeping practices; and maintain a list of municipal facilities. The implementation of each BMP is described below:

#### **IDENTIFY AND IMPLEMENT**

The City has performed Municipal Operations Assessments (MOA) in past permit terms to identify activities to implement a Good Housekeeping programs with the goal of preventing and/or reducing pollutant runoff. The City will continue to implement this program which includes the following:

There have been six municipal operations and maintenance facilities identified that have the potential to discharge pollutants into the City's MS4. Two of the six already have PPGH programs in place and are inspected once per quarter for stormwater compliance. The other four locations PPGH programs are under draft and will be finalized by end of the permit term. Presently all facilities without a PPGH program are inspected with the same expectations for stormwater compliance as the other facilities. Any stormwater non-compliance concerns found are documented and corrected by on site staff. The following details each of the identified facilities:

- Current facilities with PPGH programs:

1. Briery Yard
  2. Valley View Municipal Center
- Facilities with no PPGH program, only quarterly inspections:
    1. Las Colinas Service Center
    2. Fritz Park Maintenance Facility
    3. Trinity View Park Maintenance Facility
    4. Soccer Complex Maintenance Facility
  - Other municipal facilities: All other City operated facilities do not exhibit operations or handle/store wastes that would cause them to have a PPGH program. However, stormwater inspections are performed once per year on each of these facilities to identify any potential source of pollution capable of entering the MS4. Inspections are dated and document and any non-compliance found is corrected by on site staff.

## **TRAINING FOR MUNICIPAL EMPLOYEES**

The city has a pollution prevention training program for all Field Operation employees responsible for managing BMP's during daily operations. The training is provided in person and/or online once per year to review current pollution prevention BMP's available. All training is dated and documented for each employee who attended and is maintained by CIP Department staff.

## **STRUCTURAL CONTROL MAINTENANCE**

The City has already assessed and documented all high-priority facilities for stormwater structural controls. A structural control maintenance program will be created and implemented by year one of the permit term. The program will track all documented structures, frequency of inspections, locations for possible new structures and training for municipal employees on how to maintain the structures.

## **ii. WASTE HANDLING**

The city ensures that all waste removed from the MS4 or other municipal operations is properly disposed. All high priority city facilities have waste handling and disposal BMP's in place. Each facility has a dedicated area that houses all waste and hazardous wastes materials. These sites have the required storage tanks and containers with the appropriate secondary containment systems. The City has a hazardous waste materials disposal contractor responsible for removal and disposal of all the accumulated waste material. Waste manifest for removal and disposal of all material is obtained and kept for record keeping for up to three years at the facility in which they originated.

## **iii. PESTICIDE, HERBICIDE AND FERTILIZER APPLICATION**

The city continues to implement controls to reduce the discharge of pollutants related to the storage and application of pesticides, herbicides and fertilizers.

### **The Parks and Recreation Department**

Maintains approximately 2,395.49 acres of land including parkland, public grounds, medians and public rights-of-way during the permit year. Included in this number is weed and vegetation control on drainage channels. All these areas are maintained using both in-house personnel applicators and private contractors.

The comprehensive Parks Turf Maintenance Program was developed to manage pesticide, herbicide and fertilizer requirements and use by city staff and contractors. Only nitrogen-based fertilizer is used north of SH 183 because of the high sulfur content in the soils in north Irving. Insecticides, herbicides and fungicides are used on various park properties to control specific problems. In accordance with technical contract specifications, various contractors apply chemicals for control of weeds, turf disease and insect pests in problem areas only. Specifications for all chemical application contracts require fully trained and certified applicators and all chemicals are applied in accordance with state and federal requirements. The coverage in the Chemical Weed and Pest Control Contract for parks, athletic fields and public grounds provide full season weed and fire ant control on high profile parks and public grounds areas. The Corridor Program also includes application of herbicides on selected areas to improve appearance and control the growth of obnoxious weeds.

The Parks and Recreation Department will have maintenance employees who are state licensed pesticide applicator certified. The department provides training to achieve pesticide applicator certification for key operational personnel to greatly expand the scope of existing pesticide application contracts.

#### **Code Enforcement Vector Control**

Conducts mosquito control activities year-round, but increases those efforts from April through October, the most active mosquito season in North Texas. The city's mosquito control staff works along with the Texas Department of State Health Services and the Dallas County Health and Human Services Department to conduct surveillance and testing of the mosquito population for diseases. Monitoring for mosquitoes occurs year-round.

Mosquito control efforts include public education, using larvicide along creeks and other stagnant bodies of water to prevent mosquito eggs from developing into adults, monitoring and notifying neighborhoods where potential mosquito breeding areas are discovered and mosquito spraying events.

#### **Flood Control Districts Pesticide, Herbicide & Fertilizer Program**

All four Flood Control Districts only maintain a series of lakes and waterways within their jurisdiction. They all use an established, comprehensive waterway management program which mainly uses mechanical methods for removal and abatement of vegetation. The district will on occasion use integrated pest management practices using algaecides, herbicides, non-pesticide dyes as control measures. However, districts personnel only use products that do not require a permit to apply and carry no restrictions for application.

All Districts remain a Level II Operator according to TCEQ Guidelines, has completed the Self Certification Form for Level II under the TPDES Pesticide General Permit TXG870000 and maintains that form on-site per TCEQ requirements.

### **iv. LIST OF MUNICIPAL FACILITIES**

The Capital Improvement Program Department maintains a database of all facilities that are owned and operated by the City, that have been identified to have potential to discharge pollutants into the City's MS4, and that are subject to TPDES and NPDES industrial stormwater regulations. The database is reviewed and updated per year and is available for review upon request

The only City owned, and operated facility required to obtain a Multi-Sector General Permit is the Hunter Ferrell Municipal Landfill. This facility is inspected under the City's Industrial Monitoring Program outlined in MCM 5, Section II, B.

### **MCM 5: INDUSTRIAL AND HIGH-RISK RUNOFF**

The City of Irving has developed an Industrial and High-Risk Runoff Program to identify and evaluate facilities that have a high potential to negatively impact stormwater quality. The program addresses industrial facility stormwater discharges to the MS4 through regular screening, monitoring, and inspections. To ensure compliance, the city uses ordinances, permits, contracts, orders and other similar means to control the contribution of pollutants to the municipal storm sewer system by stormwater discharges associated with industrial activity, as follows:

ARTICLE X. – Municipal Stormwater Drainage Regulations and Acts Adversely Affecting Water Quality, Sec. 41- 58-68, Land Development Code – Part IV Subdivisions – Article III Improvements, Division 5 – Storm Water Management and Drainage Sec. 35- 26-36.

#### **i. IDENTIFICATION OF HIGH-RISK RUNOFF SITE**

Industrial facilities are identified through a variety of methods and include facilities that are permitted under the TPDES Multi-Sector General Permit (MSGP) #TXR050000 whether operating under a Notice of Intent (NOI), or a No Exposure Certification (NEC). Although these facilities are governed by the monitoring, reporting, and inspection requirements of their own individual or general TPDES stormwater permits, stormwater leaving these sites may ultimately reach the City of Irving's MS4.



## **MUNICIPAL LANDFILL**

There is only one landfill in Irving City limits which is operated and maintained by the Solid Waste Services Department. The Hunter Ferrell Landfill is in the far south section of city limits on the border with the City of Grand Prairie. The City has submitted a NOI to be covered under the TPDES general permit for stormwater discharges associated with industrial activities. City staff oversees the permit, and a contracted environmental consultant manages the storm water testing and reporting per permit requirements. The municipal landfill is inspected by City staff for compliance with the TPDES MSGP on an annual basis.

### **ii. (A) INSPECTIONS AND CONTROL MEASURES**

The CIP Department is the primary responsible department for inspecting industrial and high-risk facilities with the potential to discharge pollutants into the City's MS4. For this program inspection forms with identified checklists have been developed to ensure consistency and accuracy with inspections, enforcement, reporting and record keeping. These forms are reviewed and updated as necessary to ensure permit compliance. Initial Inspections are performed to evaluate the entire internal and external areas of the facility, inspecting all BMP's as well as a review of the facilities SWPPP. If inspection has discovered any non-compliance concerns then the inspector issues an inspection form along with a Notice of Violation or citation with details of the violations, including a time frame to resolve any discrepancies. A follow up inspection will occur at a determined date to check on all the found compliance issues. If further compliance issues continue, additional enforcement actions will be used per City Ordinance Codes.

### **ii. (B) INDUSTRIAL AND HIGH-RISK MONITORING**

The City will require industries with benchmark monitoring requirements under the Multi-Sector General Permit (MSGP) for stormwater discharges related to industrial activity to submit their monitoring results to the City upon annual inspection of their facility. The City will prepare and maintain a list of those EPCRA (SARA Title III) facilities and others that are subject to the Industrial and High-Risk Monitoring Program as described in Part III, Section B.2.h.iii. The City will review data collected by these facilities and determine if any of this data requires monitoring that facility as part of the Industrial & High-Risk Runoff Monitoring Program. The City will prepare and maintain a list of facilities exempted from the Industrial and High-Risk Monitoring Program due to "No Exposure" certifications prepared by the particular industry.

<b>Facility Type</b>	<b>Minimum Inspection Frequency</b>
Municipal Landfills	Annually
Facilities operating with a TPDES MSGP Permit (NOI)	Annually
Facilities with No Exposure Certification	Once per permit term (every five years)
Non-compliant facilities, or sites with benchmark exceedances	Semi-Annually (with additional follow-up and/or sampling until the site is in compliance)
High Risk facilities subject to EPCRA Title III, Section 313; SARA 313 facilities	Annually

## **PERFORMANCE MEASURES**

The following performance measures will be tracked annually during the term of the permit:

- The number of total Industrial facilities.
- The number of new Notices of Intent received.
- The number and type of industrial facilities.
- The number of all permitted industrial inspections.
- The number of Enforcement Actions.
- Number of non-listed industrial inspections.
- Number of found facilities needing an industrial permit.

- Number of non-listed facility enforcement actions.

## **MCM 6: CONSTRUCTION SITE STORMWATER RUNOFF**

### **i. CONSTRUCTION SITE RUNOFF ORDINANCE**

The City of Irving enforces compliance with the TPDES Construction General Permit number TXR150000 for construction sites that disturb one (1) acre or more of land. All stormwater runoff from construction sites is addressed by the controls per site-specific SWPPPs, construction site inspections, and notifying construction applicants of the TPDES permit regulations. The City's Construction Site Stormwater Ordinance Section 41, establishes the legal authority to carry out all inspections, monitoring and enforcement to prevent pollution discharges into the City's MS4.

The City has established a Construction Site Stormwater monitoring and inspection program designed to reduce the discharge of pollutants in to the MS4 from construction sites that are one acre or more in size or that are smaller than one acre but part of a larger plan of development. Construction sites are monitored and inspected by Capital Improvement Program Department Construction/SWPPP inspectors per established schedules. Inspections that discover enforcement violations are issued an NOV or citation and have a required date to comply and correct the violations. If continued violations occur a "Stop Work Order" is issued on the entire project.

### **ii. MCM 6 PROVISIONS**

#### **A. EROSION AND SEDIMENT CONTROL**

The city requires erosion control measures on all construction sites to keep silt from the sites reaching city streets or the MS4 and natural waterways. The City of Irving maintains a copy of the USEPA Baseline Construction General Permit Checklist and requires contractors to follow these requirements. The city also has a copy of the North Central Texas Council of Governments Construction Activity Best Management Practices Manual and a variety of training videos for reference purposes for employees, developers and builders.

#### **B. CONSTRUCTION SITE OPERATOR REQUIREMENTS**

The city requires and enforces all construction site operators to address the control of site waste, litter (floatables), building materials, concrete truck washout water, chemicals and sanitary waste.

#### **C. INSPECTION AND ENFORCEMENT CONTROL**

The City of Irving issues warning notices and Stop Work Order letters to construction projects not using and maintaining appropriate structural and/or nonstructural pollutant reduction measures as determined by comparison to site construction plans submitted to the City of Irving, the USEPA Baseline Construction General Permit Checklist, or physical evidence that the installed measures are ineffective (i.e., mud in the public right-of-way, trash, etc.).

The Capital Improvement Program/Engineering Division performs inspections on private development projects during the permit reporting year and issues verbal warnings, stepping up to written Warning notices and Stop Work Orders construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan.

Planning Department Inspections perform erosion inspections on building projects. If a problem is noticed the inspection will be red tagged until the problem is resolved.

In addition, SWPPP inspections are conducted on capital improvement projects. Deficiencies are documented and resolved under the direction of the engineering construction inspector with oversight of the project with the deficiency. Written Warning notices and Stop Work Orders are issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan. The city requires all earth-moving operations to obtain a grading permit if they had not applied for a building permit prior to the commencement of excavation operations.



#### **D. EDUCATION AND TRAINING**

To inform and remind the development/building community of storm water requirements for construction activity, the Planning and Inspections Department provides erosion control regulations and signage to all building permit applicants, as well as copies of sample designs for erosion and sedimentation control plans for smaller construction sites. This signage, detailing their erosion control responsibilities, is always required to be posted on-site.

The city maintains a library of development assistance tools for employees, developers and builders. These educational tools and related information can be found at <https://www.cityofirving.org/131/Capital-Improvement-Program>. The site provides access to the city Storm Water Construction Ordinance, the Construction General Permit, North Central Texas Council of Governments Construction Training Center, Texas Agrilife training courses, Texas A&M Storm Water Construction Training, U.S. EPA courses and workshops, Center for Watershed Protection webcast series, as well as links to TCEQ, NPDES, NCTCOG and EPA.

The city also trains Capital Improvement Program employees in erosion control. The city regularly sends engineers to erosion and sedimentation control training offered by the North Central Texas Council of Governments. City staff also takes advantage of other opportunities such as webinars and presentations at professional organization meetings to advance their knowledge and update their skills in a variety of related topics.

#### **E. NPDES OR TPDES RESPONSIBILITY NOTIFICATIONS TO CONSTRUCTION SITE OPERATORS**

The city requires developers and engineers submitting development or building plans that may potentially fall within the scope of the TPDES Construction General Permit (CGP), TXR150000, to provide a copy of their TPDES "Notice of Intent," Storm Water Pollution Prevention Plan (SW3P) and, subsequent, TPDES "Notice of Termination" to the Capital Improvement Program/Engineering Department. The city requires copies of Construction Site Notices or Notices of Intent for all subdivisions over an acre prior to the issuance of three-way contracts to build publicly maintained streets, water, sanitary sewer and storm sewer and other drainage systems.

The city receives construction plans for privately developed projects (with city-maintained infrastructure) that requires the submittal of a Notice of Intent to the state during the reporting year. The city also receives copies of Construction Site Notices for smaller private developments during this time frame. The city prepares plans for capital improvement project (CIP) that requires the submittal of a Notice of Intent to the state and for Construction Site Notices for smaller capital improvement projects during the reporting year.

#### **F. SITE PLAN REVIEW PROCEDURES**

Construction site plans are reviewed through the development process for conformance with the City of Irving's Drainage Design Criteria. SWPPPs are initially received and reviewed by the Capital Improvements Program. After technical review the staff may meet to discuss permit and ordinance requirements for construction sites. The city's review of construction site plans incorporate review of contractor's SWPPP to address potential water quality impacts by taking note of the following elements (not an all-inclusive list):

- General conformance to TPDES or NPDES requirements.
- Proper positioning, extent and type of temporary erosion control.

#### **G. PUBLIC INPUT PROCEDURES**

The City of Irving has established several different ways to receive information submitted by the public concerning the conditions and activities conducted at construction sites located within the city limits including: The Capital Improvements complaint line at 972-721-2611 or through our online complaint form on the Stormwater Management website [www.cityofirving.org/stormwater](http://www.cityofirving.org/stormwater).

If the construction project is a Capital Improvement project the complaint is forwarded to the on-site inspector or the Capital Improvement erosion control inspector for immediate clean up. If the project is private, the call is forwarded to the Capital Improvements inspector in charge of private sites for immediate clean up.

The Stormwater Management website contains a section devoted to information for construction site operators. It contains comprehensive information that describes the TPDES permit process, inspections, tools for successful

completion of the permit, and inspection processes, and links to the TCEQ and other appropriate web sites for forms and other related content. Questions regarding stormwater compliance can be emailed to Capital Improvements through the website.

#### **H. EROSION CONTROL PLAN REVIEW**

The city's review of erosion control construction plans incorporate review of contractor's plans to determine consistency with contractor's SWPPP and to address potential water quality impacts by taking note of the following elements (not an all-inclusive list):

- Preparation of the erosion control plan by a Texas licensed professional engineer.
- General conformance to TPDES or NPDES requirements.
- Proper positioning, extent and type of temporary erosion control.
- Consistency and harmony with SWPPP.

The City of Irving reviews and requires final engineered grading plans and grading permits for all construction sites.

#### **I. INSPECTION FREQUENCY AND FOLLOW UP PROCEDURES**

It is an enforceable offense to introduce any discharge to the MS4 that is not composed entirely of storm water. This applies to all construction sites whether or not they are regulated by a TPDES discharge permit.

As the city code makes it clear that discharges such as silt and sediments from construction sites are not allowed to enter the storm drain system, the city feels that it is unnecessary to state specific requirements for BMPs (both structural and nonstructural). As each construction site is unique, and areas within each site are unique, Irving feels that the site's engineers are in a much better position to decide what BMPs to use. When illicit discharges occur, city inspectors take appropriate enforcement actions specifying the amount of time for the site to make corrections.

#### **J. IMPLEMENTATION AND MAINTENANCE OF STRUCTURAL AND NON-STRUCTURAL BMPs.**

The Permit additionally requires that MS4 provide a description of a program to implement and maintain structural and non-structural controls to reduce pollutants in stormwater runoff from construction sites to the MS4. This new requirement indicates that the program must include a description of: (1) procedures for site planning which incorporate consideration of potential water quality impacts; (2) requirements for nonstructural and structural best management practices; (3) procedures for identifying priorities for inspecting sites and enforcing control measures that consider the nature of the construction activity, topography, and the characteristics of soils and receiving water quality; and (4) appropriate educational training measures for construction site operators.

##### **1. Procedures for site planning which incorporate consideration of water quality impacts**

For all development and redevelopment, the city follows all Federal (EPA), and State (TCEQ) storm water requirements. The city requires reviews of both site development and implementation of water quality and pollution prevention plans prior to construction. If the land disturbance is equal to or greater than one acre, the construction site operators shall prepare and submit a Storm Water Pollution Prevention Plan (SWPPP) to the city for review at least two days prior to commencement of construction activities at the site. If the land disturbance is less than one acre, the contractor must install and maintain erosion control devices until all areas are stabilized. If disturbed area is five acres or greater, the SWPPP book must be signed by a licensed Texas Professional Engineer. Refer to City of Irving Ordinance Sec. 41-64. Further procedures are discussed in Section ii (F) of this SWMP.

##### **2. Requirements for Nonstructural and Structural Best Management Practices**

The city will continue implementation and enforcement with goals to minimize the discharge of pollutants from areas of new development and significant redevelopment after construction is completed. All approved requirements for nonstructural and structural best management practices can be found within the Storm Water Management and Drainage Ordinance Section 35. In addition, the city has adopted the enhanced development/redevelopment guide, iSWM Design Manual for Site Development, Oct. 27, 2017.

### **3. Procedures for Identifying Priorities for Inspecting Sites and Enforcing Control Measures.**

The City of Irving issues Warning Notices and Stop Work Orders to contractors and developers of construction projects not using and maintaining appropriate structural and/or nonstructural pollutant reduction measures as determined by comparison to site construction plans submitted to the City of Irving, the USEPA Baseline Construction General Permit Checklist, or physical evidence that the installed measures are ineffective (i.e., mud in the public right-of-way, trash, etc.). In addition, SWPPP reviews are conducted on all active construction sites. Deficiencies are documented and resolved under the direction of the engineering construction inspector. During construction, BMPs are inspected and maintained by site operators; however, Capital Improvement Program Construction Inspectors regularly inspect these sites and will utilize enforcement as necessary to ensure that neglected, insufficient, or failed BMPs are maintained and properly installed. Some sites may be inspected more frequently based on site conditions, complaints, and proximity to receiving waters.

### **4. Educational and Training Measures for Construction Site Operators.**

The city maintains a library of development assistance tools for employees, developers and builders. These educational tools and related information can be found at [cityofirving.org/131/Capital-Improvement-Program](http://cityofirving.org/131/Capital-Improvement-Program). The site provides access to the city Storm Water Construction Ordinance, the Construction General Permit, North Central Texas Council of Governments Construction Training Center, Texas Agrilife training courses, Texas A&M Storm Water Construction Training, U.S. EPA courses and workshops, Center for Watershed Protection webcast series as well as links to TCEQ, NPDES, NCTCOG and EPA. The aforementioned information is also accessible in person by visiting the Capital Improvement Program Department located at 825 W. Irving Blvd., Irving, TX 75060.

## **iii. LISTS OF SITES**

The city maintains a current list of construction sites that discharge directly to the MS4 and that have been issued a NPDES or TPDES permit. The list includes name, location and permit number of the discharges that have been authorized under an NPDES or TPDES storm water discharge permit for construction sites (if known). Due to NOIs and NOTs submittals are received randomly, the actual number of active construction sites varies. Therefore, a current list of construction sites is not included with this SWMP. An updated copy of the construction site list can be viewed upon request from the Capital Improvement Program Department.

## **iv. OTHER ELEMENTS OF MCM 6**

### **A. CONSTRUCTION CONTRACTOR REQUIREMENTS**

The city requires construction site contractors to implement appropriate erosion and sediment control BMPs and control waste (for example, discarded building materials, concrete truck wash out water, chemicals, litter and sanitary waste) at the construction site that may cause adverse impacts to water quality.

### **B. SITE PLAN REVIEW**

When reviewing contractor's site plans, the city will continue to incorporate consideration of potential water quality impacts, receipt and consideration of information submitted by the public, and site inspections and enforcement of control measures to the extent allowable under state and local law.

### **C. CITY STAFF ASSIGNMENTS AND TRAINING**

The city ensures that all staff whose primary job duties are related to implementing the construction storm water program (including permitting, plan review, construction site inspections and enforcement) are informed or trained to contact these activities. The city will conduct its own training and may from time to time use outside trainers.

## **MCM 7: PUBLIC EDUCATION, OUTREACH, INVOLVEMENT AND PARTICIPATION**

### **i. PUBLIC EDUCATION AND OUTREACH**

The City of Irving public education, outreach, involvement, and participation program encourages stewardship of the City's surface water resources by raising awareness of the issues, providing information on best management practices that may be used to improve water quality, and providing opportunities for the public to provide meaningful input into the program.

The education and outreach program is designed to reach all constituents (residents, visitors, businesses) within the city limits. The program promotes, publicizes, and facilitates public reporting of spills, fish kills, illicit discharges, improper disposal of materials, and the management and disposal of pesticides, fertilizers, and herbicides, and pet waste management, and yard waste management.

#### **A. DOCUMENTATION AND ASSURANCE OF SWMP PUBLIC AWARENESS**

The city will document and ensure the SWMP promotes, publicizes and facilitates public education and outreach to residents, visitors, public service employees, businesses, commercial and industrial facilities and construction personnel. There are no groups not addressed by the program.

1. Provide Education and outreach presentations to the public (including school and community presentations).
  - The city promotes water quality education that focuses on watershed concepts, stormwater pollution prevention, flood safety and awareness, and the interworking of the stormwater conveyance system. The city partners with public and private schools, local science centers, and other city departments to provide stormwater education to students.
2. Provide education and outreach presentations to the public during public events.
  - Public Education programming also includes outreach to community organizations (churches, HOA's, and civic groups) via in person presentations and participation at public events.
3. Continue media education and outreach programming (includes traditional and social media).
  - The City utilizes both traditional and social media to provide timely and relevant information to the community. Print and electronic media are used disseminate information to the public. Media are developed to provide information on a wide variety of stormwater related topics and are updated regularly to address current and historical water quality issues.
4. Continue implementation of inlet decal program.
  - The city provides inlet decals for volunteers to place on storm drains. The common message "This Drain for Rain, flows to the Creek," is a visual reminder that the storm drain runs directly into the creeks, rivers, and lakes. The Storm Drain marking program is a hands-on volunteering program for those who are interested in educating the public about stormwater pollution prevention.
5. Continue coordination the Stormwater Management Website.
  - The Capital Improvements Program will continue to update and review content on the Stormwater Management website.

#### **B. IMPLEMENTATION OF PUBLIC EDUCATION AND OUTREACH**

The city will continue to promote, publicize and facilitate the following elements:

1. Public reporting of illicit discharges or improper disposal of materials, including floatables, into the MS4.
  - The reporting of illicit discharges and improper disposal of materials, including floatables, is encouraged via Stormwater Education Programs. Proper reporting is promoted through print advertisements, social media, in person interaction at public events, the City of Irving stormwater website. Citizens are

encouraged to report illicit discharges to the North Center Texas Council of Governments illegal dumping hotline and public Awareness program (1-888- 335-DUMP). The Parks and Recreation 24-hour reporting "hot Line" (972-721-5487). The communications department Questions and Concerns online form. The Eyes on Irving hot line at (972-721-7777).

2. Proper management and disposal of used oil and household hazardous wastes.

- Capital Improvements, Water Utilities, Communications, and Solid Waste Services work together to ensure citizens receive information about reusing and recycling materials and their proper disposal, including used oil and HHW. Solid Waste Services is the primary responsible department for coordinating the Household Hazardous Waste collection program.

3. The proper use, application, and disposal of pesticides, herbicides, fertilizers by public, commercial and private applicators, and distributors.

- Information on proper use of pesticides, herbicides, and fertilizers as well as Integrated Pest Management techniques is made available to residents through the Capital Improvement Programs Stormwater management. Environmental Stewardship and Water Utilities promotes low maintenance, native, or adapted vegetation. Provides homeowners and businesses the opportunity to conserve water, reduce PHF usage, improve local water quality.

## **ii. PUBLIC INVOLVEMENT AND PARTICIPATION**

The SWMP is available for review in person at the City of Irving, Capital Improvements Programs office and online via the Stormwater Management website. Citizens may review the current copy of the SWMP in person at any time during normal business hours and freely online. Questions or comments regarding the SWMP may be directed to the Capital Improvement Program office or may be entered into an online comment form on the Stormwater Management Website. Input on SWMP development and implementation is solicited year-round via the Stormwater Management website. Comments will be recorded, tracked, and reviewed.

## **MCM 8: MONITORING, EVALUATING AND REPORTING**

### **I. DRY WEATHER SCREENING PROGRAM**

The city performs an average of 200 dry weather field screenings (DWFS) per year. All areas of the MS4 must be screened at least once during the permit term. Any flows found will be investigated using GIS maps of the MS4.

#### **DESCRIPTION OF DWFS PROCEDURES**

During periods of dry weather, >48 hours of no rainfall, DWFS are performed to detect and eliminate any illicit discharges into the MS4. DWFS consist of using the map of the drainage areas in the collector app marked with outfall locations, investigating the outfalls making sure there is no runoff occurring during periods of dry weather. A DWFS inspection form is created in Collector for each outfall investigated. If flow is found, several tests are performed using the storm drain kits purchased from LaMotte. Each storm drain kit contains instructions regarding how to perform the required tests. Enter all the necessary information in the inspection form and do any backtracking needed to determine the source of the flow. There are allowable discharges that are listed in Article X in the city's Code of Ordinances, as well as on the City of Irving's Storm Water Management Plan, but these will need to be investigated and documented. For any illicit discharges found, i.e. sewer overflow, illegal dumping, etc. elimination, containment and enforcement may be necessary.

Samples of flows are collected and analyzed for the following parameters:

Sample Flow Reporting Parameters	
Parameter	Reporting Units
Ammonia	parts per million (ppm)
Chlorine	parts per million (ppm)
Copper, total	parts per million (ppm)
Detergent	parts per million (ppm)
pH	Standard Units (S.U.)
Phenols	parts per million (ppm)

## ii. WET WEATHER SCREENING PROGRAM

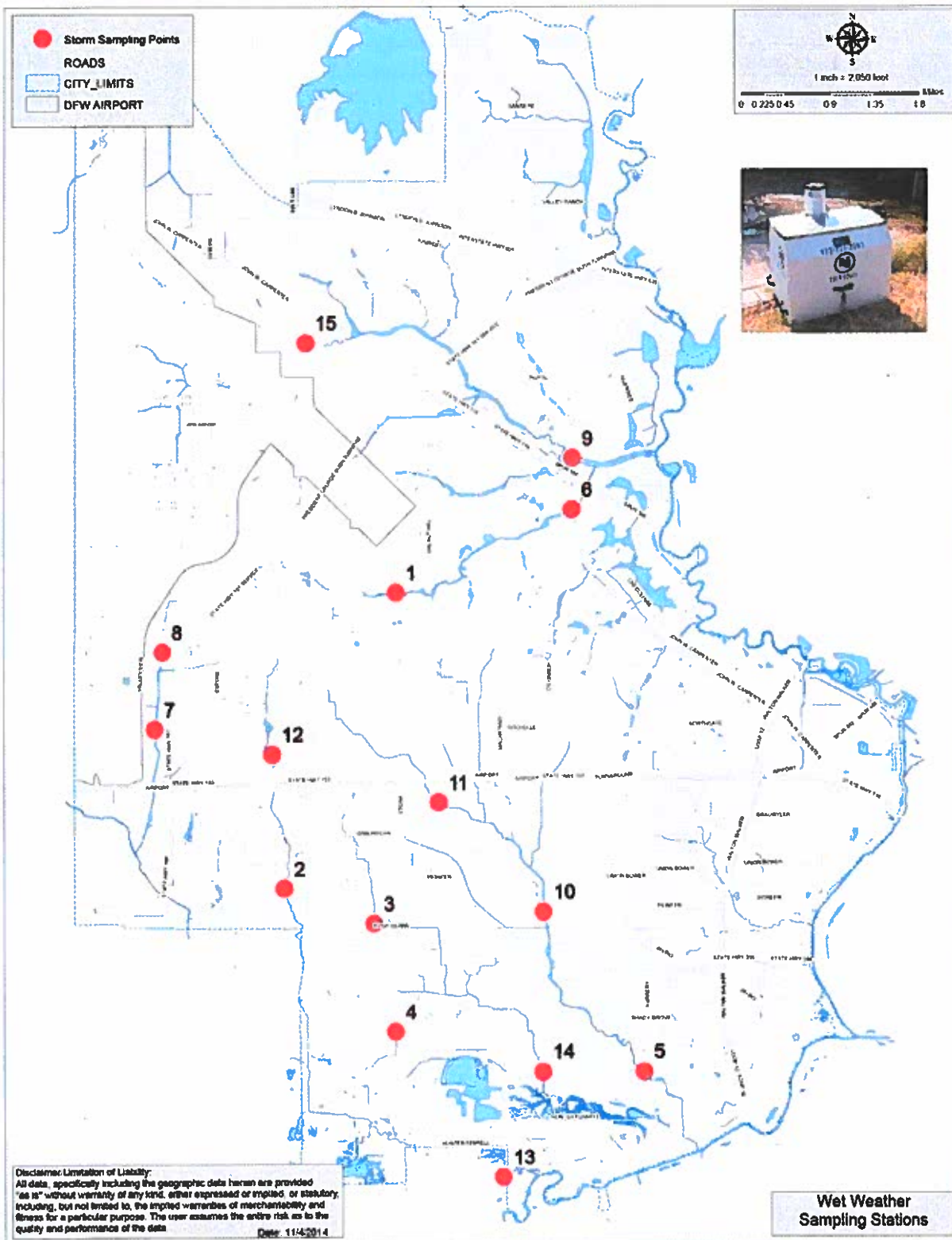
### REPRESENTATIVE MONITORING DATA

The City of Irving, using mobile wet weather samplers, monitors eight storm events during the permit reporting year. The city screens 15 sites on the following receiving waters: Cottonwood Creek, Dry Branch, West Irving Branch, Bear Creek, Estelle Creek, Delaware Creek and Hackberry Creek. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site.

The following chemical analyses are performed on grab samples: hardness, pH, temperature, DO, DO%, conductivity, grease and oil, e. coliform, and fecal streptococcus. The following testing was performed on composite samples: BOD, COD, Nitrite+Nitrate-Nitrogen, TKN, Phosphate (total), Orthophosphate, TDS, TSS,

Cadmium (total), Copper (total), Chromium (total), Nickel (total), Lead (total), Zinc (total), Atrazine, Ammonia Nitrogen, and Arsenic.





The samples are analyzed for the following parameters:

Table 8: Sampling Parameters Employed	
Parameter	Reporting Units
Ammonia Nitrogen, total	mg/L (milligrams per liter)
Arsenic	mg/L (milligrams per liter)
BOD-5 day	mg/L (milligrams per liter)
Cadmium, total	mg/L (milligrams per liter)
Chromium, total	mg/L (milligrams per liter)
COD	mg/L (milligrams per liter)
Conductivity	µS/cm (microsiemens per centimeter)
Copper, total	mg/L (milligrams per liter)
Diazinon	µg/L (microgram per liter)
Dissolved Oxygen	mg/L (milligrams per liter)
Dissolved Oxygen Percent	% (percent)
E. Coli, MPN Q-tray	MPN/100mL (Most Probable Number per 100 milliliters)
Fecal Streptococcus	Col/100mL (colonies per 100 milliliters)
Grease and Oil	mg/L (milligrams per liter)
Hardness	mg/L (milligrams per liter)
Lead, total	mg/L (milligrams per liter)
Nickel, total	mg/L (milligrams per liter)
Nitrate+Nitrite-Nitrogen	mg/L (milligrams per liter)
Orthophosphate	mg/L (milligrams per liter)
pH	S.U. (standard units)
Phosphate, total	mg/L (milligrams per liter)
TDS	mg/L (milligrams per liter)
Temperature	°C (degree Celsius)
TKN	mg/L (milligrams per liter)
TSS	mg/L (milligrams per liter)
Zinc, total	mg/L (milligrams per liter)

The City of Irving is continuing the accumulation of wet weather screening data.

### iii. INDUSTRIAL AND HIGH-RISK RUNOFF MONITORING PROGRAM

*Refer to MCM 5 for the city's Industrial and High-Risk Monitoring Program*

### iv. STORM EVENT DISCHARGE MONITORING

#### North Central Texas Regional Monitoring Program

NCTCOG has coordinated the implementation of a cooperative Regional Storm Water Monitoring Program on behalf of the region's seven largest cities (Arlington, Dallas, Fort Worth, Garland, Irving, Mesquite and Plano), and the North Texas Tollway Authority (NTTA), and with their support through the Regional Storm Water Monitoring Task Force ("Task Force"). The Regional Storm Water Monitoring Program, formally endorsed by the Texas Commission on Environmental Quality (TCEQ), is designed to assist participating entities comply with the TPDES (Texas Pollutant Discharge Elimination System) storm water monitoring requirements, including wet weather monitoring, for each individual permit holder, while providing a more efficient, consistent and cost-effective regional effort.

The NCTCOG and the City of Irving ("Participant"), collectively referred to as "Parties," have executed an Interlocal Agreement that establishes the structure through which participating entities have agreed to participate in the Fourth Permit Term of the Regional Wet Weather Characterization Program, operating from Oct. 1, 2017, through Sept. 30, 2023.



## **v. FLOATABLES MONITORING**

Some elements of the floatables monitoring program are described in MCM 1, ii Floatables of this SWMP. A description of the floatable trash that is removed at the source (i.e. street ROW) before it reaches the MS4 and removal of floatables in the streams and creeks after they enter the MS4 is typically described in the annual report.

The city conducts a minimum of one clean-up each permit year for the removal of floatable material in discharges to or from the MS4. The amount of material collected is estimated by weight or volume. The city records the number of total hours expended in clean-up of floatables from canals; from DCURD structural controls and along public ROWs, as applicable. The results of the cleanup are presented in the annual report required by the permit.

## **IMPAIRED WATERBODIES AND TOTAL MAXIMUM DAILY LOAD (TMDL) REQUIREMENTS**

A total maximum daily load (TMDL) is like a budget for pollutants for impaired waterbodies. It estimates the amount of a pollutant that a water body can receive and still support its designated uses. Designated uses may include fishing, general use, and how the water supports aquatic life. The load is then allocated among the sources of pollution within the watershed, and measures to reduce pollutant loads are developed as necessary. A TMDL becomes part of the state's Water Quality Management Plan after it is adopted by the Texas Commission on Environmental Quality (TCEQ) and approved by the United States Environmental Protection Agency (EPA).

For Texas, the standards for water quality are defined in the Texas Water Quality Standards (Chapter 307 of the Texas Administrative Code). TCEQ publishes a list of impaired waterways every two years (*The Texas Integrated Report of Surface Water Quality*). The list identifies which stream segments are impaired and identifies the pollutant(s) of concern (POC). TCEQ coordinates Total Maximum Daily Loads (TMDLs) for Impaired Surface Waters. Approval of the TMDL is followed by the development of an Implementation Plan (I-Plan) that includes control measures to reduce the POC.

The City of Irving's permit now requires targeted BMPs be developed and implemented when an MS4 drains to impaired waterbodies with established TMDLs and those without. This is shown below under Section C from The City of Irving's TPDES Permit (WQ0004691000) from December 10, 2019.

### **Impaired Water Bodies and Total Maximum Daily Load (TMDL) Requirements**

*If applicable, the permittee shall control the discharges of pollutant(s) of concern to impaired waters and waters with approved TMDLs as described in Part II. C.2.a. and b. below.*

*1.) Discharges of the pollutant(s) of concern to impaired water bodies where there is a TCEQ or EPA-approved total maximum daily load (TMDL) are not eligible for this permit unless they are consistent with the approved TMDL. A water body is impaired for the purposes of this permit if it has been identified, pursuant of the latest TCEQ and EPA-approved Texas Integrated Report Index of Water Quality Impairments, as not meeting Texas Surface Water Quality Standards.*

*2.) The permittees shall control the discharges of pollutant(s) of concern to impaired waters and waters with approved TMDLs as provided in section(s) a and b below and shall assess the progress in controlling those pollutants.*

## **TMDLs VS Impaired Waterbodies**

A TMDL is a scientifically derived target that tells us the greatest amount of a substance that we can add to a waterway and keep it healthy. These substances are not necessarily harmful in and of themselves. For example, phosphorus is an essential nutrient, but too much phosphorus can lead to an overgrowth of algae, which in turn can make the water taste bad and reduce the amount of oxygen available to fish and other creatures that live in the water.

Another example is bacteria, which occur naturally in both human and animal waste. However, too much bacteria can make it more hazardous to swim or wade in a creek, lake, or bay—activities called “contact recreation” in the state’s standards for water quality.

The TMDL gives us a measurable way to target our efforts to protect and improve the quality of our streams, lakes, and bays.

### **Impaired Waterbodies and Pollutants of Concern**

A waterbody is impaired if it does not meet the TMDL criteria. If one or more pollutants of concern (POC) exceeds the maximum threshold of allowable discharge, the waterbody is impaired. Pollutants of concern are what the TMDL is measuring within the water. POCs include nitrogen, phosphorous, bacteria, sediment, ammonia, chlorides, sulfates, pathogens, and even floatables. Reducing the concentrations of these POCs in our waterways is the main objective of the TMDL program.

### **Impaired Waterbodies in Irving, Texas**

The [Texas Integrated Report of Surface Water Quality](#) is an overview of the status of surface waters of the state, including concerns for public health, fitness for aquatic species and other wildlife, and specific pollutants and their possible sources. The 303(d) List, a subset of the report, identifies waters that do not attain one or more standards for their use. Water bodies identified in Category 5a of the 303(d) List are those impaired waters for which the state plans to develop total maximum daily loads (TMDLs). All impaired waters include those in Category 4 in addition to Category 5. Category 4 includes impaired waters for which TMDLs have already been adopted, or for which other management strategies are underway to improve water quality. The most recent report that will be used to identify which waterbodies are impaired in Irving is the 2020 Texas Integrated Report of Surface Water Quality. The Texas Integrated Report satisfies the requirements of the federal Clean Water Act Sections 305(b) and 303(d). TCEQ produces a new report every two years in even-numbered years, as required by law. The 303(d) list must be approved by the EPA before it is final.

### **Discharges to Water Quality-Impaired Waterbodies with an Approved TMDL**

The TPDES permit requires that all discharges to impaired waterbodies with an EPA and TCEQ approved TMDL must be controlled by the permittee, the City. These discharges will be managed by the SWMP using targeted controls, measurable goals, benchmark identification, annual reporting, an emphasis on bacterial impairment, monitoring and assessing progress, and, if no progress is being observed towards the benchmarks, current BMPs will undergo revision or alternate BMPs will be identified.

The 2020 Integrated Report listings for TMDLs and impaired waterbodies, identifies bacteria as the primary pollutant of concern in the waterbodies within the City’s jurisdiction. Irving’s TMDL programming will focus target bacteria reductions in the impaired waterbodies identified below. The assessment units below are taken directly from the 2020 [Texas Integrated Report of Surface Water Quality](#). All these sections are impaired for bacterial content under category 4a as they exceed their TMDL. The Lower West Fork Trinity River will also be part of the “Impaired waterbodies without a TMDL” section for the category 5a impairments for dioxin and PCBs, as there is not a TMDL for these pollutants in that assessment unit.

## Category 4a Impaired Waterbodies with Approved TMDLs

<b>SegID: 0822B Grapevine Creek</b> From the confluence with Elm Fork Trinity River in Dallas County upstream to its headwaters west of International Parkway at DFW Airport in Tarrant County		
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>Bacteria in water (Recreation Use)</b>		
0822B_01 From the confluence with Elm Fork Trinity River in Dallas County upstream to its headwaters west of International Parkway at DFW Airport in Tarrant County	4a	No

<b>SegID: 0841U West Irving Creek</b> A 4 mi stretch of West Irving Branch running upstream from approx. 0.4 mi downstream of Oakdale Rd. to just south of Sowers Road in Irving, Dallas Co.		
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>Bacteria in water (Recreation Use)</b>		
0841U_01 A 4 mi stretch of West Irving Branch running upstream from approx. 0.4 mi downstream of Oakdale Rd. to just south of Sowers Road in Irving, Dallas Co.	4a	No

<b>SegID: 0822A Cottonwood Branch</b> A 6 mi stretch of Cottonwood Branch running upstream from confluence with Hackberry Creek, to Valley View Road in Dallas County.		
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>Bacteria in water (Recreation Use)</b>		
0822A_02 A 3.5 mi stretch of Cottonwood Branch running upstream from approximately 0.5 mi downstream of N. Story Rd. to Valley View Rd, Dallas, Co.	4a	No

<b>SegID: 0841 Lower West Fork Trinity River</b> From a point immediately upstream of the confluence of the Elm Fork Trinity River in Dallas County to a point immediately upstream of the confluence of Village Creek in Tarrant County		
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>Bacteria in water (Recreation Use)</b>		
0841_01 From confluence of the Elm Fork Trinity River to the confluence with Johnson Creek.	4a	No
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>Dioxin in edible tissue</b>		
0841_01 From confluence of the Elm Fork Trinity River to the confluence with Johnson Creek.	5a	No
0841_02 From the confluence with Johnson Creek upstream to the confluence of Village Creek.	5a	No
<u>Parameter(s)</u>	<u>Category</u>	<u>Carryforward</u>
<b>PCBs in edible tissue</b>		
0841_01 From confluence of the Elm Fork Trinity River to the confluence with Johnson Creek.	5a	No
0841_02 From the confluence with Johnson Creek upstream to the confluence of Village Creek.	5a	No

## TARGETED CONTROLS

The City of Irving has chosen the most essential BMPs that can be implemented to reduce discharges of the identified POCs, with regards to the TMDL Implementation Plan for the North Central Texas Region: *Implementation Plan for Twenty-Two Total Maximum Daily Loads for Bacteria in the Greater Trinity Region (I-Plan)*. Approved by the TCEQ on December 11, 2013 and revised by the Coordination Committee on June 13, 2019, the I-Plan outlines strategies to address bacteria concerns in TMDL and impaired waterbodies. The City of Irving has agreed to continue to implement the relevant strategies outlined in the I-Plan.

The following table identifies the areas of focused effort to reduce bacteria in the City of Irving based on the I-Plan.

Implementation Strategies	Areas of Focused Effort
Wastewater	1.4 Sanitary sewer overflow reporting
	1.5 Funding opportunities for repair/replacement of sanitary sewer lines
	1.7 Liquid waste management and liquid waste hauler program expansion
Stormwater	2.1 Local Supplemental Environmental Projects
	2.2 Land use, business, and regulatory review
Planning and Development	3.0 Adoption of green infrastructure and low impact development standards by municipalities
	3.2 Construction sites
Pets, Livestock, and Wildlife	4.0 Feral hog management (as alternative to 4.1)
	4.2 Pet waste control measures
Education and Outreach	7.6 Bacteria-specific outreach to volunteer service groups
BMP Library	8.1 BMP project funding and evaluation

### Measurable Goals

Measurable goals and implementation schedules for the areas of focused effort identified above are outlined in Appendix D.

### Benchmark Identification

The permit requires that all benchmarks must be identified for POCs. Their utility is as a baseline for BMP performance, as BMPs will be re-evaluated on an annual basis. The benchmark acts in a similar way that a control group in an experiment would to test the BMP and compare against in a before and after fashion. It is important to note that the benchmark is not numeric data, nor will it be used in any capacity as a violation should a BMP have a negative effect in comparison to the benchmark.

**The benchmark must be determined based on one of the following options:**

- A) If the MS4, or a portion thereof, is subject to a TMDL that identifies a Waste Load Allocation(s) (WLA) for permitted MS4 stormwater sources, then the SWMP may identify it as the benchmark. Where an aggregate allocation is used as a benchmark, all affected MS4 operators are jointly responsible for progress in meeting the benchmark and shall (jointly or individually) develop a monitoring / assessment plan as required in Part II.C.2.a.vi.**
- B) Alternatively, if multiple MS4s are discharging into the same impaired watershed with an approved TMDL, with an aggregate WLA for all permitted stormwater MS4s, then the MS4s may combine or share efforts to determine an alternative sub-benchmark value for the pollutant(s) of concern (e.g., bacteria) for their respective MS4. The SWMP must clearly define this alternative approach and must describe how the sub-benchmark value would cumulatively support the aggregate WLA. Where an aggregate benchmark is broken into sub-benchmark values for individual MS4s, each permittee is only responsible for progress in meeting its sub- benchmark value.**

The City of Irving will follow A) above for benchmark determination. WLAs for regulated sources for TMDLs and impaired waters have been calculated and taken from the I-plan. WLAs for the City of Irving are listed



below, these will serve as benchmarks for TMDLs and the impaired waterbodies within the city's jurisdiction. All WLAs are expressed in billion MPN/day.

Assessment Unit	Stream Name	WLA <sub>SW</sub> (billion MPN/day)
0841_01	Lower West Fork Trinity River	1920
0841I	Dry Branch	N/A*
0841U	West Irving Creek	88.51
0822A_02	Cottonwood Branch	34.97
0822B_01	Grapevine Creek	157.6

\*There is no WLA<sub>SW</sub> in the I-Plan as it was reviewed and approved in 2019, before the 2020 Texas Integrated Report of Surface Water Quality Report was approved.

### Annual Report

Benchmark values of impaired segments will be compared to the newest available data at the time the annual report is written. A comparative analysis will be undertaken in order to understand and report on BMP effectiveness. A comparatively lower number to the benchmark will indicate a BMP working in a beneficial manner, whilst a higher number than the benchmark will indicate that a BMP should be adjusted as it is not fulfilling its purpose adequately.

### Impairment for Bacteria

Bacterial impairment is the predominant pollutant of concern for most of the waterbodies in Irving. As such, the permit requires that focused BMPs addressing this contaminant must be included in the SWMP and implemented appropriately. Also described in the permit are the 5 areas of focus that BMPs should be targeted towards. These 5 areas are: Sanitary Sewer Systems, On-Site Sewage Facilities, Illicit Discharges and Dumping, Animal Sources, and Residential Education.

#### C) Sanitary Sewer Systems

- 1.) Make improvements to sanitary sewers to reduce overflows;
- 2.) Address lift station inadequacies;
- 3.) Improve reporting of overflows; and
- 4.) Strengthen sanitary sewer use requirements to reduce blockage from fats, oils, and grease

The Water Utilities department oversees all the water and sanitary sewer infrastructure. They maintain a robust inspection and preventative maintenance schedule of all sanitary sewer pipes. They are responsible for any improvements to the sanitary sewer system to remove blockages, clean transmission lines, and any other repairs that are responsible for reducing or removing any sanitary sewer overflows. They are responsible for any lift station activity and provide a strong emphasis to the public about the need to properly dispose of fats, oils, and grease.

#### D) On-Site Sewage Facilities (for entities with appropriate jurisdiction)

- 1.) Identify and address failing systems; and
- 2.) Address inadequate maintenance of On-Site Sewage Facilities (OSSFs).

The Water Utilities department is responsible for all aspects of on-site sewage facility system health and maintenance. Appropriate measures are in place to monitor and address any OSSF shortcomings.

### *C) Illicit Discharges and Dumping*

*Put in place additional effort to reduce waste sources of bacteria' for example, from septic systems, grease traps, grit traps, and other sources.*

The Municipal Drainage Utility is responsible for surface water monitoring and enforcing illicit discharges in the MS4. MDU has a program for routine inspection and sampling of locations that are likely to discharge bacteria and other pollutants into the MS4. Water Utilities monitors other environmental concerns and require compliance of grease and grit trap installations. Water Utilities provides a targeted outreach campaign towards Fats, Oils, and Grease (FOG) in order to raise awareness about the correlation between SSOs and the resulting bacterial impacts on surface water quality.

### *D) Animal Sources*

*Expand existing management programs to identify and target animal sources, such as zoos, pet waste, and horse stables.*

The public education and outreach section of the stormwater program will specifically target bacterial sources and pollutants of concern in Irving's waterbodies. Pet waste will be the primary component with information distributed about avian feeding and feral hog management as well. As TMDLs are becoming a higher priority through the new SWMP and permitting requirements, targeted outreach to TMDL watersheds will be a priority.

### *E) Residential Education – Educate residents on the following*

- 1) Bacteria discharging from a residential site either during rainfall runoff events, or directly;*
- 2) Fats, oils, and grease clogging sanitary sewer lines and resulting overflows'*
- 3) Maintenance and operation of decorative ponds; and*
- 4) Proper disposal of pet waste.*

Public education and outreach will be specifically targeting bacterial source loading through multiple avenues and departments. The stormwater program will be providing information and raising awareness of the implications and dangers of bacterial loading in our TMDL impaired watersheds via door hangers, Irving Spectrum articles, and social media posts. The Water Utilities outreach regularly provides information about FOGs and measures to reduce SSOs.

## **Monitoring or Assessment of Progress**

### *i. Monitoring or Assessment of Progress*

*The permittees shall monitor or assess progress in achieving benchmarks and determine the effectiveness of BMPs and shall include documentation of this monitoring or assessment in the SWMP and annual reports. In addition, the SWMP must include methods used to assess progress.*

#### *A) The permittees may use either one of the following methods to evaluate progress towards the benchmark and improvements in water quality*

##### *1) Evaluating Program Implementation Measures*

*The permittees may evaluate and report progress towards the benchmark by describing the activities and BMPs implemented by identifying the appropriateness of the identified BMPs, and by evaluating the success of implementing the measurable goals.*

*The permittees may assess progress by using program implantation indicators such as: (1) number of sources identified or eliminated' (2) decrease in number of illegal dumping' (3) increase in illegal dumping reporting; (4) number of educational opportunities conducted' (5)*

*reductions in sanitary sewer overflows (SSOs); or, (6) increase in illegal discharge detection through dryscreening, etc.*

**2) Assessing Improvements in Water Quality**

*The permittees may assess improvements in water quality by using available data for segment and assessment units of water bodies from other reliable sources, or by proposing and justifying a different approach, such as collecting additional instream or outfall monitoring data, etc. Data may be acquired from TCEQ, local river authorities, partnerships, and/or other local efforts as appropriate.*

As benchmark values are set, they must be compared to data gathered in the future to gauge and assess progress. The permit establishes two different methods of assessment, (A.1) the evaluation of measures implemented towards the goal of reduction of POCs, or (A.2) the assessment of water quality improvements as an analytical measure of progress. The City of Irving will be using assessments in water quality improvements (Option A.2) to comparatively measure against the benchmark in order to accurately and analytically justify the effectiveness of BMP implementation.

**B) Progress towards achieving the benchmark shall be reported in the annual report. Annual reports shall report the benchmark and the year(s) during the permit term that the MS4 conducted additional sampling or other assessment activities.**

Any progress made towards achieving the goals set out in this SWMP will be reported in the annual MS4 report. This will include any additional sampling or assessment activities that impact or enhance progress towards benchmark values.

**i. Observing No Progress towards the Benchmark**

*By the end of the third year from the effective date of the permit, if the permittees observe no progress toward the benchmark either from program implementation or water quality assessments as described in Part II.C.2.a.vi, the permittees shall identify alternative focused BMPs that address new or increased efforts towards the benchmark or, as appropriate, shall develop a new approach to identify the most significant sources of the pollutant(s) of concern and shall develop alternative focused BMPs for those (this may also include information that identifies issues beyond the MS4's control). These revised BMPs must be included in the SWMP and subsequent annual reports.*

If no progress has been made towards achieving the benchmarks for POCs after three years from the effective permit date, alternative focused BMPs shall be identified to meet these goals. If there are factors beyond the control of the MS4, they must be identified. This will all be included in both the SWMP and the annual MS4 reports.

**Discharges Directly to Water Quality-Impaired Water Bodies without an Approved TMDL**

The permit requires the permittee to determine if there are any portions of the MS4 that discharge to an impaired water body without a TCEQ and EPA approved TMDL. If this is the case, the MS4 must determine whether it may be a source of POCs, or whether it would be likely to contain a source of POCs at concerning levels. If determined, SWMP focused BMPs with measurable goals to reduce the discharge of POCs must be included no more than two years after the effective permit date. There are two waterbodies in the city's jurisdiction that fall into Category 5 of the 2020 Texas Integrated Report of Surface Water Quality, Dry Branch Creek and the Lower West Fork of the Trinity River. Analytical testing will be done to assess whether any part of the MS4 is contributing concerning levels of POCs.

## Category 5 Impaired Waterbodies without Approved TMDLs

**SegID: 08411 Dry Branch Creek**

An 1.5 mi stretch of Dry Branch Creek running upstream from confluence with Lower W. Fork Trinity to Rock Island Road in Irving, Dallas County.

<u>Impairment Description(s)</u>	<u>Category</u>	<u>Year Segment First Listed</u>
<b>Bacteria in water (Recreation Use)</b>	<b>5c</b>	<b>2020</b>
08411_01	An 1.5 mi stretch of Dry Branch Creek running upstream from confluence with Lower W. Fork Trinity to Rock Island Road in Irving, Dallas County.	

**SegID: 0841 Lower West Fork Trinity River**

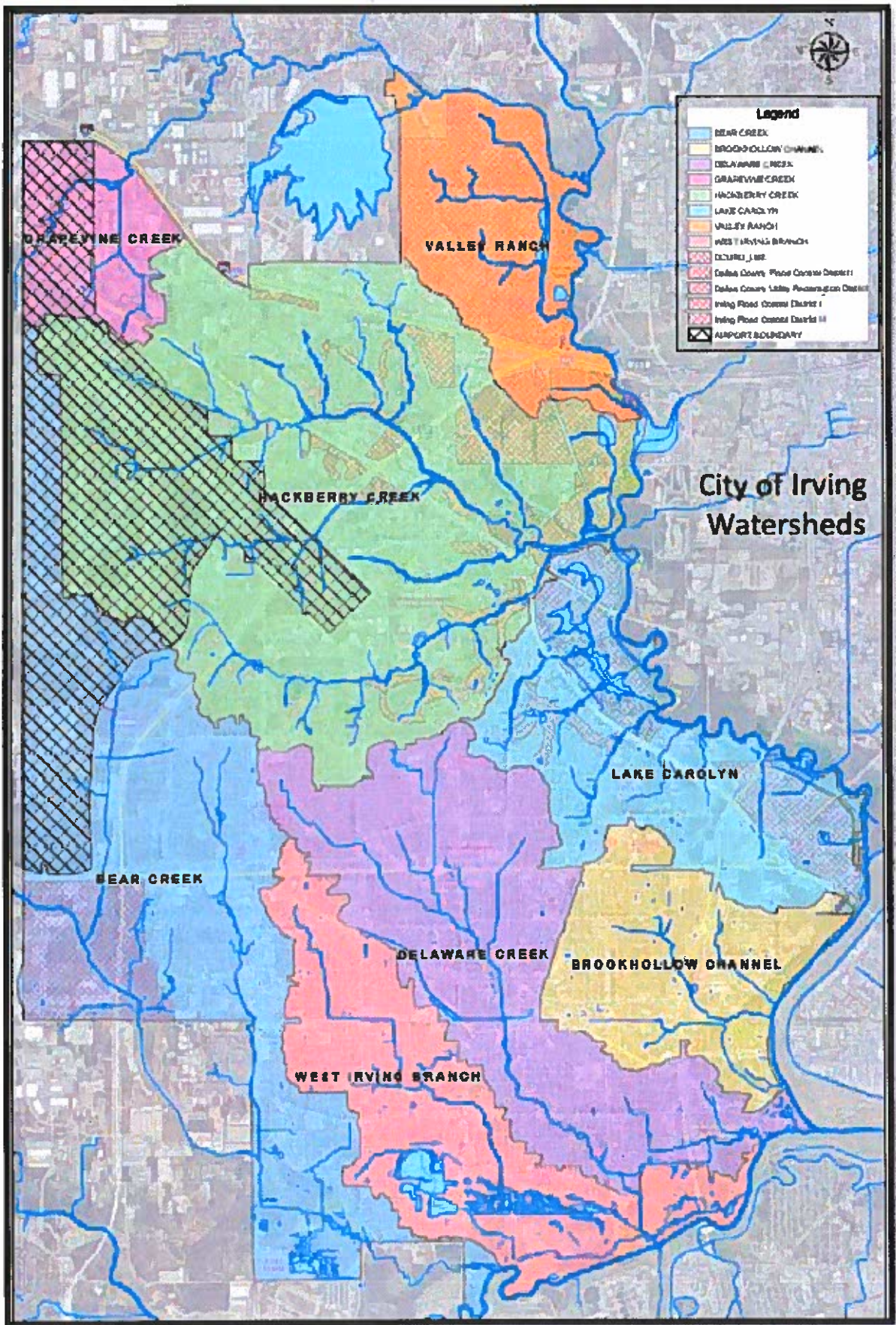
From a point immediately upstream of the confluence of the Elm Fork Trinity River in Dallas County to a point immediately upstream of the confluence of Village Creek in Tarrant County

<u>Impairment Description(s)</u>	<u>Category</u>	<u>Year Segment First Listed</u>
<b>Dioxin in edible tissue</b>	<b>5a</b>	<b>2010</b>
0841_01	From confluence of the Elm Fork Trinity River to the confluence with Johnson Creek.	
0841_02	From the confluence with Johnson Creek upstream to the confluence of Village Creek.	

<u>Impairment Description(s)</u>	<u>Category</u>	<u>Year Segment First Listed</u>
<b>PCBs in edible tissue</b>	<b>5a</b>	<b>1996</b>
0841_01	From confluence of the Elm Fork Trinity River to the confluence with Johnson Creek.	
0841_02	From the confluence with Johnson Creek upstream to the confluence of Village Creek.	

If bacteria is the POC, significant sources shall be identified and focused BMPs shall be implemented. At minimum, bacteria sources from Part II.C.2.a.v. of this permit shall be addressed. Any sampling or obtained compliance related information will be included in the annual MS4 report.

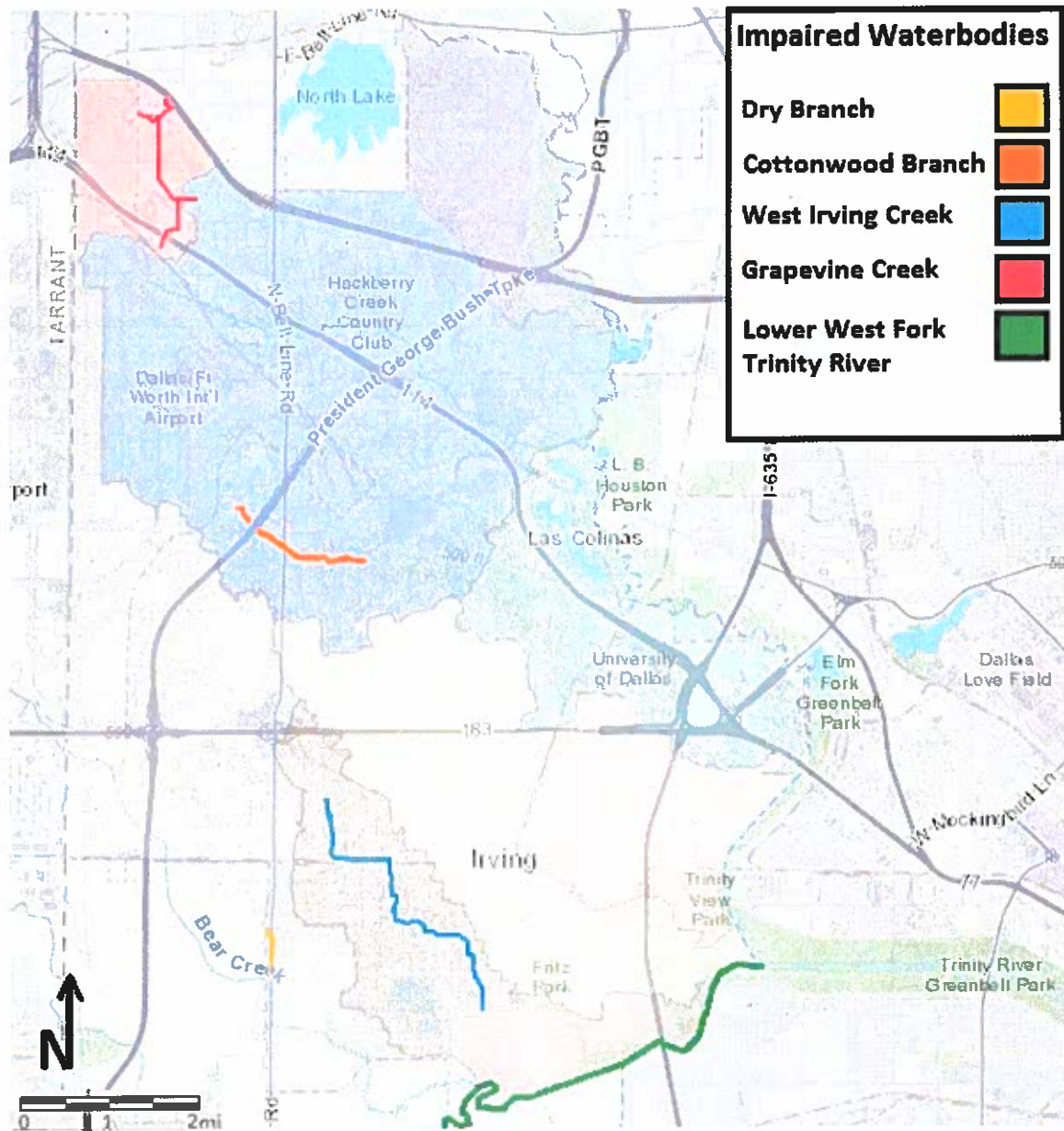




Assessment Unit	Stream Name	WLA <sub>SW</sub> (billion MPN/day)
0841_01	Lower West Fork Trinity River	1920
0841I	Dry Branch	N/A*
0841U	West Irving Creek	88.51
0822A_02	Cottonwood Branch	34.97
0822B_01	Grapevine Creek	157.6

(Table 2: WLAs for impaired AUs)





[illegible]

5	Street Sweeping Program.	Expend a minimum of 2,000 labor hours on in-house thoroughfare sweeping per FY. Sweep a minimum of 5,000 miles.	Total curb miles swept.	Traffic and Transportation	by 9/30	by 9/30	by 9/30	by 9/30
6	Sanding & deicing roadways during inclement weather.	Track 100% of the number of icy events and quantities of sanding/deicing material deployed per FY.	Total labor hours associated with sweeping.  Number of ice events.  Amount of material deployed during inclement weather.	Traffic and Transportation	by 9/30	by 9/30	by 9/30	by 9/30



[illegible]

3	Continue implementation of the Stormwater Capital Improvement Program.	Track 100% annually of all flood projects, progress, scope, and benefits per FY.	<p>Number of flood control projects completed per FY.</p> <p>Number of flood control projects under construction annually.</p> <p>Number of flood control projects in design annually.</p> <p>Funds encumbered for flood control/capital improvement projects annually.</p>	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
4	Flood control projects.	Track 100% annually of all flood projects, progress, scope, and benefits per FY.	<p>Number of flood control projects completed per FY.</p> <p>Number of flood control projects under construction annually.</p> <p>Number of flood control projects in design annually.</p> <p>Funds encumbered for flood control/capital improvement projects annually.</p>	<p>DCFCD#1</p> <p>DCURD</p> <p>IFCD#1</p> <p>IFCD#3</p>	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30



BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year 3	Year 4	Year 5
<b>MCM 3: Illicit Discharge Detection &amp; Elimination (IDDE)</b>									
<i>Objectives: Prohibit non-stormwater discharges from entering the MS4; Establish a methodology and process to detect and eliminate illicit discharges; minimize overflows from sanitary sewers into the MS4; Prohibit the discharge of HHW into the MS4 and continue implementation of a collection and disposal program for residents; Conduct dry weather screening; Maintain an updated list of dischargers with NPDES and/or TPDES permits; maintain an updated MS4 map; and continue spill prevention and response programming.</i>									
<b>i. Program Descriptions &amp; Procedures</b>									
1	Continue to document specific details or standard operating procedures for each of the seven new requirements outlined in Part III, Section B.2.c.i of the Permit.	Review annually 100% of SOPs associated with this MCM and make changes as needed.	Changes (if any) to SOPs directly related to IDDE.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>(ii - vi) Allowable &amp; Prohibited Stormwater Discharges</b>									
2	Assessment of flows from fire-fighting discharges where identified as significant sources of pollution.	Track annually 100% of reports regarding discharges from fire-fighting activities identified as a significant source of pollution.	Reporting of fire-fighting activities and impact on water quality.  Number of discharges or flows from fire-fighting events that are identified as a significant source of pollution annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>vii. Elimination of illicit Discharges and Improper Disposal</b>									
3	Maintain list of techniques used for detecting illicit discharges.	Review (and update as needed) a minimum of one (1) time per year list of techniques for detecting illicit discharges.	Changes (if any) to list of techniques used to detect illicit discharges annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>viii. Overflows and Infiltration</b>									
4	Minimize the number of sanitary sewer releases to the MS4 via inspection, maintenance, and cleaning.	Respond to 100% of work orders created for inspection, maintenance, and repair to the sanitary sewer system.	Number of work orders associated with repairs, inspections, and cleaning annually.  Number of sanitary sewer overflows reported annually.	Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30



ix. Household Hazard Waste Program (HHW)						
5	Continue to promote participation in the Household Hazardous Waste Program.	Collect a minimum of 2,500 pounds of household hazardous waste material annually.	Amount of waste collected in lbs. from residents at the collection center, curbside pickup and mobile events annually.	Solid Waste Services	by 9/30	by 9/30
x. MS4 Screenings and Illicit Discharge Inspections						
6	Detect, inspect, and investigate illicit discharges and/or improper disposal.	Investigate 100% of observed or reported discharges to the MS4.	Number of illicit discharges reported and investigated.	Water Utilities Capital Improvement Program	by 9/30	by 9/30
xi. Priority Areas						
7	Develop a list of priority areas likely to have illicit discharges.	Review (and update as needed) a minimum of 1 time per year list of techniques for detecting illicit discharges.	Update list of priority areas and report annually.  100% inspection of each facility annually.	Capital Improvement Program	by 9/30	by 9/30
xii. NPDES/TPDES Permittee List						
8	Maintain an updated list of discharges to the MS4 with TPDES or NPDES permits associated with industrial and construction activities.	Review annually 100% of TPDES and NPDES Permittee's.	Name, location, and TPDES permit number (if applicable) for each permitted activity reported annually.	Water Utilities Capital Improvement Program	by 9/30	by 9/30
xiii. MS4 Map						
9	Continue to verify existing drainage outfalls.	100% Review annually stormwater drainage outfalls and update as required.	Number of current drainage outfalls reported annually.	Capital Improvement Program	by 9/30	by 9/30
xiv. Spill Prevention and Response						
10	Continue response to hazardous material spills and incidents to prevent and contain spills.	Respond to 100% of applicable reported spills and incidents annually.	Number of HAZMAT events per FY.	Capital Improvement Program Fire Department	by 9/30	by 9/30

BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year 3	Year 4	Year 5
					October 2019 – September 2020	October 2020 – September 2021	October 2021 – September 2022	October 2022 – September 2023	October 2023 – Permit Expiration
<b>MCM 4: Pollution Prevention &amp; Good Housekeeping</b>									
<i>Objectives: Implement a pollution prevention program for municipal operations; ensure proper disposal of removed wastes from the MS4; implement controls to reduce pesticide, herbicide, and fertilizer discharge; train municipal employees in good housekeeping practices; and maintain a list of municipal facilities.</i>									
<b>i. Pollution Prevention and Good Housekeeping</b>									
1	Evaluate municipal operations in each department for implementing pollution prevention and good housekeeping BMP's.	Once per year evaluate each of the main departments (Parks, Traffic and Transportation, CIP, Water Utilities, SWS) that handle wastes, or provide operations that may cause a discharge of a known pollutant.	Number of assessments per FY.  Number of new BMP's implemented.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
2	Continue high priority municipal facility stormwater inspections.	Perform stormwater inspections of each high priority site a minimum once a quarter (4) for each FY. Identify each BMP at each high priority site.	Number of high priority inspections conducted per FY.  Total number of BMP's.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
3	Continue non-high priority facility inspections on all other city facilities.	Perform stormwater inspections on each non-high priority facility once per FY.	Number of facilities.  Number of inspections.  Number of pollution concerns identified.	Capital Improvement Program					
4	Continue to train municipal employees in proper PPGH stormwater practices.	Train 100% of all employees responsible for stormwater BMP's annually. Conduct a minimum of one (1) in-person or online PPGH training per year for field operations personnel.	Number of employees trained per FY.  Number of different BMP's explained in training.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30



5	Implementation of structural control maintenance program.	Year one: Create an SOP for structural control maintenance program at high priority City facilities. Create database of all BMP structural controls at high priority City facilities. Train employees on structural control maintenance. Implement and track structural control maintenance program.	Number of structural controls at high priority City facilities.  Number of inspections annually at each structural control.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. Waste Handling</b>								
6	Promote Good Housekeeping practices by managing the recycling and disposal of trash and floatables at city facilities.	Conduct quarterly (4) trash and floatables collection pickups annually.	Number of trash inspection pickups.  Amount of trash/floatables removed in lbs. during each removal.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
7	Promote Good Housekeeping practices by Managing the handling, storage and disposal of hazardous waste at high priority municipal operations.	Evaluate the hazardous waste processes at each high priority facility annually. Conduct quarterly (4) inspections for maintenance of operations and facilities and to document storage and disposal manifests of waste removed.	Annually evaluate facility processes.  Number of inspections performed at each facility per FY.  Number of non-compliance concerns found during inspections per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>iii. Pesticide, Herbicide, &amp; Fertilizer (PHF) Application</b>								
8	Maintain a list of employees who are licensed pesticide applicators.	Review annually the number of licensed pesticide applicators and maintain a minimum of 5 TDA licensed applicators.	Number of licensed pesticide applicators.	Parks Code Enforcement	by 9/30	by 9/30	by 9/30	by 9/30

9	Maintain a list of Flood Control District employees who are licensed pesticide applicators.	Review annually the number of licensed pesticide applicators and maintain a minimum of 1 TDA licensed applicators.	Number of licensed pesticide applicators.	DFCD#1 DCURD IFCD#1 IFCD#3	by 9/30	by 9/30	by 9/30	by 9/30
---	---	--	---	-------------------------------------	---------	---------	---------	---------

#### iv. List of Municipal Facilities

10	Maintain and update as necessary the list of facilities that are subject to this MCM.	Review once annually the list of municipal facilities subject to this MCM to ensure 100% are correctly listed.	Number of facilities that are subject to this MCM.	Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30
----	---	--	--	-----------------	---------	---------	---------	---------



BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year	Year 4	Year 5
					October 2019 – September 2020	October 2020 – September 2021	October 2021 – September 2022	October 2022 – September 2023	October 2023 – Permit Expiration
<b>MCM 5: Industrial and High-Risk Runoff</b>									
<i>Objectives: Identify and control pollutants from any industrial or commercial discharges that have the potential to place a significant load on the MS4; Inspection of facilities that hold an individual or TPDES MSGP; implement an industrial and high-risk monitoring program.</i>									
<b>i. Identification of Facilities</b>									
	Maintain a database of all industrial facilities.	Review annually list of NEC and NOI facilities on record to ensure a minimum of 50% are correctly categorized and listed.	Maintain an inventory of industrial facilities and update as necessary.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
1									
2	Maintain a database Industrial NOI's received.	Maintain a list of new NOI's received.	Number of NOI's received per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
3	Maintain a database of the types of industrial facilities regulated under this MCM. To include the following: MS4 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) and other facilities determined by this MS4.	Maintain a list of all the types of Industrial Facilities operate in the City's MS4.	The number and the types of industrial facilities that operate. List will be updated every FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. (A) Inspections and Control Measures</b>									
4	Inspections of NOI/NEC facilities, municipal landfills, SARA 313/EPRA Title III facilities, and any non-compliant facilities or sites with benchmark exceedances.	Inspect annually 50% of all industrial facilities per FY.	The number of inspections performed per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30

5	Industrial Inspections Enforcement Actions	The number of enforcement actions (NOV's, Citations) involved with industrial inspections per FY.	Total number of NOV's and/or citations issued per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30
---	---	--	---	-----------------------------------	---------	---------	---------

## II. (B) Industrial and High-Risk Monitoring

6	Identify, inspect and rate the risk level of facilities with a Standard Industrial Classification Code (SIC) that may require permitting under the MSGP.	Locate and inspect one facility per month that may be subject to an industrial pretreatment program.	Total of inspections.  Total number of facilities to be found to need an industrial permit.  Total of non-compliance facilities located.	Capital Improvement Program	by 9/30	by 9/30	by 9/30
---	---	--	---	-----------------------------------	---------	---------	---------



[illegible]

4	Continue to promote NCTCOG Construction Inspection Workshop.	Announce via web or in person training, a minimum of once annually, NCTCOG workshop availability.	Number of times workshop is promoted via web or in person training.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. (E) Notification of Construction Site Operators of their Responsibilities</b>								
5	Continue notification of site operators of their responsibilities through permitting process.	Notify all known and approved site owners of their site responsibilities and track the number of sites approved.	Number of sites approved.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. (F) Site Plan Review</b>								
6	Continue construction site plan review for conformance with the city's design criteria.	Track annually number of plans reviewed for design criteria conformance at 100% of approved sites.	Number of approved sites reviewed for design criteria conformance.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. (G) Procedures for Receiving and Considering input from the Public</b>								
7	Continue avenues for receiving input from the public.	Track and respond to 100% of inquiries regarding construction site activity from the public.	Number of inquiries from the public.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. (I) Procedures for Frequency of Inspections and Follow Up Inspections</b>								
8	Continue to review construction site inspections and follow up inspections.	Annually track all inspections and follow up inspections.	Number of inspections performed per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>iii. List of Construction Sites</b>								
9	Maintain a list of active construction sites that are inspected for compliance. List to include name, location and permit number.	Track 100% of permitted and active private and CIP construction sites.	Total number of active construction sites.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30



BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year 3	Year 4	Year 5
MCM 7: Public Education, Outreach, Involvement & Participation									
Objectives: Implementation of a public education and outreach program about stormwater quality issues; provide the public with an opportunity to participation in SWMP preparation.									
i. (A) Public Education and Outreach									
1	Provide education and outreach presentations to the public (including school and community presentations).	Provide annually a minimum of three (3) education and outreach presentations.	Number of presentations.  Number of presentation attendees.	Capital Improvement Program  Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
2	Provide education and outreach presentations to the public during Public Events.	Participate annually in a minimum of three (3) public events.	Number of events.  Number of attendees.	Capital Improvement Program  Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
3	Continue media education and outreach programming (includes traditional and social media).	Publish a minimum of four (4) pollution prevention web posts and/or articles annually.	Number and type of media feature distributed.  Number of posts on social media sites.	Capital Improvement Program  Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
4	Continue implementation of inlet decal program.	Track 100% of inlet decal placement and replacement annually.	Number of decals placed annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
5	Continue coordination of the Stormwater Management website.	Review (and update as needed) annually stormwater website content.	N/A	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30

### i. (B) Reporting, Disposal, & Proper Use

	Track public reporting of illicit discharges and improper disposal of materials, including floatables, into the MS4	Track 100% all incoming complaints per FY.	Number and type of complaints reported per FY.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
1				Communications Code Enforcement	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
2	Continue education program regarding proper use, application, and disposal of used oil and HHW.	Produce a minimum of two (2) articles or handouts about used oil and HHW annually.	Number and type of media features distributed annually. Number of posts on social media sites annually.	Capital Improvement Program Water Utilities Communications	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
3	Proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors.	Produce a minimum of two (2) articles or handouts about proper use, application, and disposal of pesticides, herbicides, and fertilizers annually.	Number and type of media feature distributed annually. Number of posts on social media sites annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30

### ii. Public Involvement & Participation in SWMP Development

	Implement a Program to solicit SWMP input annually via the Stormwater Management website.	Track annually 100% of comments received related to the SWMP via the stormwater management website.	Number of comments received annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
4					by 9/30	by 9/30	by 9/30	by 9/30	by 9/30



BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year 3	Year 4	Year 5
<b>MCM 8: Monitoring, Evaluation, &amp; Reporting</b>									
<i>Objectives: Implement monitoring and screening program to assess water quality within the MS4.</i>									
<b>i. Dry Weather Screening Program</b>									
1	Investigate flows from outfalls during dry weather and act to eliminate the discharge.	Inspect annually one hundred (100) of the MS4's outfalls during dry weather.	Number of outfalls inspected annually.  Number of outfalls with flow Illicit connections or discharges found annually.	Capital Improvement Program  Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>ii. Wet Weather Screening Program</b>									
2	Sample and investigate storm flows and discharges to monitor stream health.	Sample 15 representative sites.  Analyze two (2) storm events per sample site annually.	Number of samples analyzed annually.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>iii. Industrial and High-Risk Monitoring</b>									
3	Identify facilities that are required to conduct benchmark monitoring.	SEE MCM 5	SEE MCM 5	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>iv. Storm Event Discharge Monitoring</b>									
4	Continue to coordinate with NCTCOG the Regional Wet Weather Characterization Program (RWWC/P).	Track annually RWWC/P data received from NCTCOG and report to TCEQ.	Monitoring results for each monitoring location.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
<b>v. Floatables Monitoring</b>									
5	Monitor floatables removal from a DCURD canals and from City Park drainage systems.	Refer to MCM 1	Amount of floatables removed in lbs.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30

BMP	BMP Description	BMP Quantified (Measurable Goal)	Performance Measure Reported	Responsible Department	Goal Completion				
					Year 1	Year 2	Year 3	Year 4	Year 5
<b>Impaired Waterbodies &amp; Total Maximum Daily Load (TMDL) Requirements</b>									
<i>Objectives: Development and implementation of a program to address discharges to impaired water bodies with or without approved TMDLs; identify areas of focused effort; create measurable goals to reduce the discharge of pollutants of concern to impaired water bodies; identify benchmarks for program effectiveness, and monitor/assess progress toward reaching benchmarks.</i>									
<b>Discharges to Impaired waterbodies with an Approved TMDL</b>									
1	Identify impaired waterbodies and POCs in waterbodies within the jurisdiction of Irving	Use the Texas Integrated Report Index of Water Quality Impairments to determine which waterbodies are impaired, and what POCs are responsible	Identify and list all category 4 and 5 impaired waterbodies and their respective POCs	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
2	Measurable goals	Create measurable goals for each BMP	Create one goal for each BMP	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
3	Benchmark Identification	Identify bacteria benchmark for each impaired water body with WLA when available	Evaluate benchmark annually	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
4	Identify areas of focused efforts with an emphasis on bacterial impairment	Identify six areas of focused efforts to address bacteria.	Specify focused efforts for the annual report from the I-Plan	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30
5	Identify potential sources of bacteria.	Identify all potential sources of bacteria by end of FY21.	The number and type of sources contributing to bacteria.	Water Utilities Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30	by 9/30



6	Implement BMPs for bacteria impairments.	Identify, by the end of FY21, a minimum of one (1) BMP associated with each targeted control.	Create programs specific to each targeted control	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
7	Monitor or assess progress by utilizing Option A.2 as outlined in Part II.C.vi.A.2 of the Permit.	Assess improvements in water quality for each AU	Sample designated locations in each AU and compare data with benchmark.	Capital Improvement Program Water Utilities	by 9/30	by 9/30	by 9/30	by 9/30
8	Observe progress toward the benchmark.	Show progress toward achieving benchmark	Analyze data obtained reported in the annual MS4 report	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
9	Reassessment of the benchmark.	Reassess benchmarks in year 5 and update as necessary.	Analyze data trends through the permit term	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
<b>Discharges Directly to Water Quality Impaired Waterbodies without an Approved TMDL</b>								
10	Determine if MS4 is a contributor of any POCs to any impaired waterbody without an approved TMDL.	By the end of the first permit year, collect data to determine if the MS4 is contributing POCs at concerning levels into the impaired waterbodies without an approved TMDL.	Analyze data obtained through wet weather sampling and make determinations.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30
11	If the MS4 is determined to be contributing POCs at concerning levels, implement BMPs with measurable goals.	By the end of the second permit year, identify and implement a minimum of one BMP to reduce the discharge of the POC.	Report annually status of MS4's implementation of BMPs to reduce contribution of any POC to any impaired waterbody without an approved TMDL.	Capital Improvement Program	by 9/30	by 9/30	by 9/30	by 9/30

# ATTACHMENT 2

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26



27

28

29

30

31

32

33

34

35

36

37

38

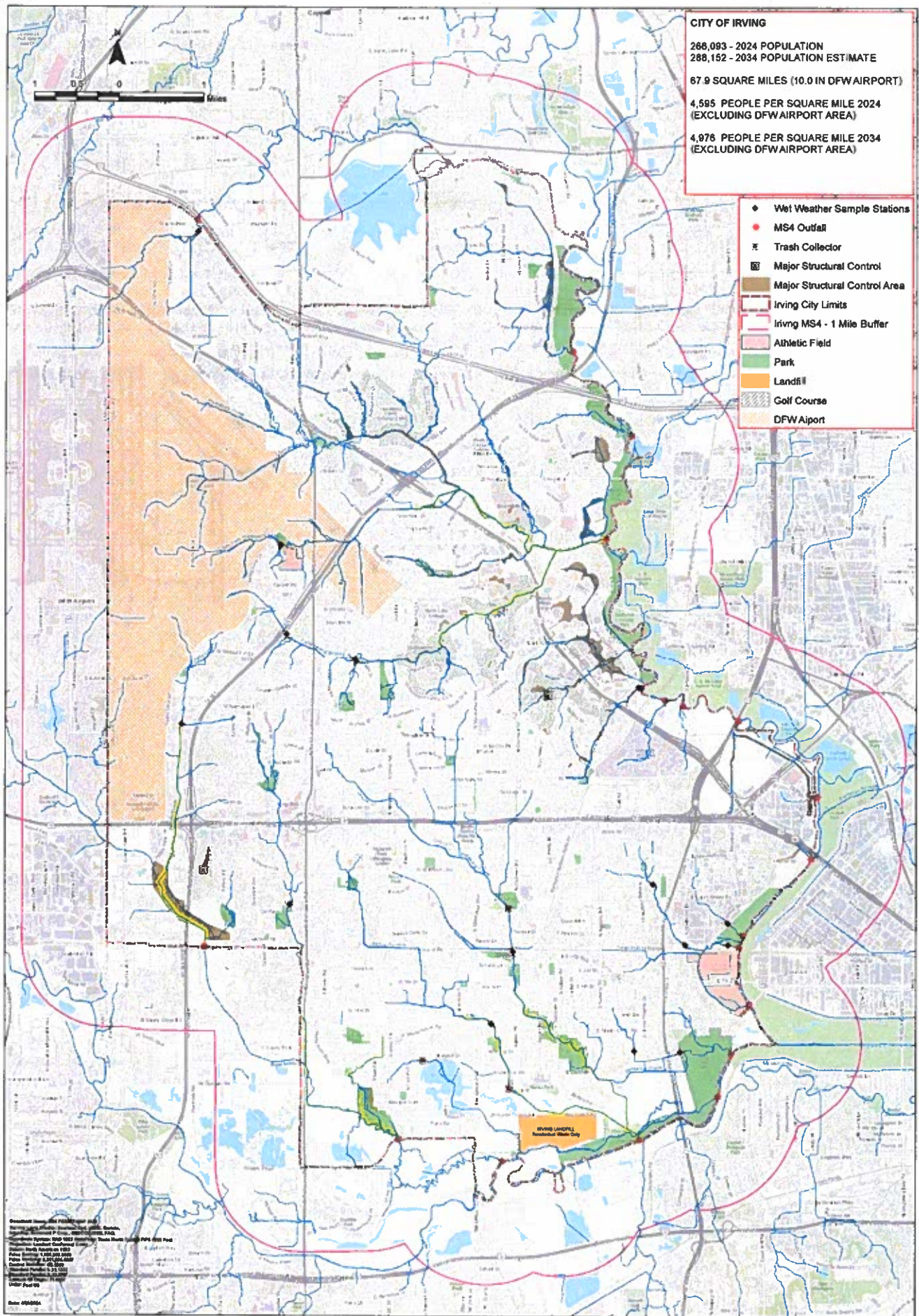


39

40











# ATTACHMENT 3



#### Description of monitoring and screening programs:

**MCM 3 V. Overflow and Infiltration** - The city performs a variety of activities as part of its program to eliminate spills, overflows, inflow and infiltration. These include smoke testing, manhole inspections, dyed-water flooding, a regular program of preventive maintenance cleaning and TV inspections followed by remedial construction.

**Summary from previous year:** During the reporting period, 844,497 linear feet of sanitary sewer services and mains were cleaned as part of the Preventative Maintenance program.

**MCM 3 VII. MS4 Screening and Illicit Discharge Inspections** - In the annual report, an average of 120 outfalls will be inspected for dry weather field screenings for discharges. The sources of flows will be investigated using expert knowledge and GIS maps of the MS4.

**Summary from previous year:** From October 1, 2022 to September 30, 2023 the Environmental Compliance section received and investigated 139 stormwater-related complaints and 48 sanitary sewer complaints. In all incidents, immediate cleanup was required. Departmental policy was, and remains, to educate violators regarding regulations before issuing tickets or filing charges. Two warnings or "Notices of Violation" (NOVs) were given before enforcement action, such as the issuance of a citation, was taken. If a violation is deemed to be an immediate danger to the environment, a citation can be issued prior to issuing NOVs. During this reporting year, Environmental Compliance inspectors issued 158 NOVs and 2 citations. Environmental compliance inspectors also, with director approval, terminate water service to those violations that posed an immediate danger to the MS4.

**MCM 3 XI. List of Priority Areas to Inspect for Illicit Discharges** - The City is preparing a map of older industrial areas to inspect on a more frequent basis as a part of this MCM. There are only 2 facilities that have had a history of multiple illicit discharges which will also be listed for more frequent inspections.

**Summary from previous year:** The city has prepared a map of priority areas to inspect on a monthly basis as a part of this MCM. Sites are chosen by their history of illicit discharges, areas where no other sampling takes place and areas where older sanitary sewer infrastructure exists. The map is reevaluated on an annual basis.

#### **High Priority Monthly Sampling Sites**

- 1-Hackberry Trib @ Harrington Park
- 2-Delaware Trib @ E Irving Heights
- 3-Dry Branch @ Conflans
- 4-Delaware @ Twin Wells/Singleton
- 5-Estelle Creek behind Dog park
- 6-Cottonwood Branch @ Las Brisas
- 7-Cottonwood Branch @ 161 (east side)
- 8-Brookhollow Branch @ Wildwood Dr.
- 9-Elm Fork Trib @ Riverside
- 10-Grapevine Creek @ Regent
- 11-Elm Fork Trib, behind Brakebush
- 12-Elm Fork Trib @ E. Pioneer
- 13-Elm Fork Trib @ 3.0E
- 14- West Irving Branch @ Oakland Dr
- 15- Grapevine Trib @ Royal

**MCM 4 I. Pollution Prevention and Good Housekeeping Program** - The City of Irving began a Good House Keeping effort in 2009 of all Municipal facilities. Before the EPA audit of 2010, Industrial inspectors inspected the 6 largest Municipal facilities and brought any issues to the attention of the Facility Managers. There has been a quarterly inspection of these largest facilities ever since. Any deficiencies are immediately brought to the manager's attention and addressed. The 6 facilities that are inspected quarterly are; Briery Yard, Valley View Municipal Center, Las Colinas Service Center, Fritz Park Maintenance Office, Trinity View Park Maintenance center and the Animal Shelter.

**Summary from previous year:** The City of Irving began a Good Housekeeping effort in 2009 of all municipal facilities. Quarterly inspections are conducted of the seven largest facilities. Any deficiencies found are immediately addressed. The seven facilities inspected quarterly are: Briery Yard, Valley View Municipal Center, Las Colinas Service Center, Fritz Park Maintenance Office, Animal Shelter, Trinity View Service Center and the Soccer Complex Maintenance Yard. In addition, as of 2016, another 48 city-owned facility properties are inspected once per calendar year for general pollution prevention and good housekeeping.

**MCM 5 II. Industrial and High Risk Monitoring - A)** The City of Irving performs annual storm water inspections for all known industries in the city that are permitted under the *Industrial Pretreatment Program*. Storm water inspections are performed during the reporting year by Environmental Compliance staff in conjunction with the city's Industrial Pretreatment Program.

**B)** The City of Irving inspects five industrial and/or high-risk occupancies selected at random from approximately 500 industries in the city that report SIC codes impacted by storm water regulations per permit year.

**Summary from previous year:** The following 23 storm water inspections were performed during the reporting year by Environmental Compliance staff in conjunction with the city's Industrial Pretreatment Program.

**Permitted Industry Inspections Environmental Compliance October 2022 – September 2023**

**Industry, Permit Number, Inspection Date**

Americas Beverage TXR05EL70 6/22/2023  
BP Aerospace 1 TXR05FN53 4/24/2023  
BP Aerospace 2 TXR05FY43 4/24/2023  
Brakebush TXR05FD49 7/25/2023  
Chemolee Labs TXRNEBP12 5/10/2023  
Cosmetic Labs TXRNEBP03 1/11/2023  
Cosmetic Labs 2 TXRNEBU74 1/11/2023  
Dr Pepper TXR05AN33 4/25/2023  
Fresenius Medical Care TXR05FK30 4/11/2023  
Frito Lay TXR05AX96 1/10/2023  
Irving Metal Finishers TXRNEBP95 6/14/2023  
Lone Star Container TXRNER067 6/12/2023  
McCormick TXRNEW548 8/10/2023  
Mohawk Labs TXR05M766 8/22/2023  
Multilayer Technologies TXRNER069 5/4/2023  
Netvia Group TXRNEAF17 7/27/2023  
Owens Corning TXR05DB02 3/17/2023  
Padrino Foods TXRNEAJ90 6/15/2023  
Premark Health Sciences TXRNECA43 4/19/2023  
Trader Joe's/World Class Distribution TXRNECB45 6/19/2023  
US Plating TXRNEZ728 2/7/2023

USA Packaging TXR05Q715 8/22/2023

Xochitl Inc TXRNEAI42 6/20/2023

**Total Inspections 23**

**B) Environmental Compliance** staff inspected thirty-nine industries during the current reporting year. Inspection locations were selected at random using SIC codes listed in the Multi Sector General Permit.

**Randomly Selected Industry Inspections**

**Public Works/Water Utilities – Environmental Compliance**

**October 2022– September 2023**

**Business Address SIC Code Inspection Date**

Abbott Labs 1921 Hurd Dr 3845 5/11/2023

Airline Tech Reps 4831 W Royal Ln Suite A 4581 5/16/2023

ASC Engineered Solutions 1401 Valley View Ln Suite 150 4225 8/15/2023

ASI Sign Systems Inc 8181 Jetstar Suite 101 3993 6/19/2023

Astura Medical 4949 W Royal Ln 4225 5/8/2023

ATP Jet Simulation 2800 Valley View Ln, Suite 180-B None Listed under TXR050000 MSGP 5/26/2023

Bluum - CDI Dallas 951 Valley View Suite 180 3571 6/14/2023

Budd Van Lines 8065 Tristar Dr 4225 8/10/2023

Builders FirstSource 8701 Sterling St Suite 180 2439 6/15/2023

C & G Plastics 1716 Parkside 2821 4/18/2023

Caesarstone 9500 N Royal Ln 3281 5/15/2023

Cenveo Worldwide 1011 W Royal Lane 2677 5/16/2023

Clean Harbors Environmental Services 2109 Reid Drive 4212 5/2/2023

Continental Battery 9500 N Royal Suite 150 4225 6/23/2023

Delta Steel Technologies 2204 Century Center Blvd 3549 5/3/2023

EcoServices 1725 Hurd Dr Suite 108 4581 7/6/2023

Exist Multifamily 8600 N Royal Ln Suite 150 2434 4/20/2023

Expeditors 1101 Valley View Ln Suite 100 4225 9/5/2023

FedEx Ship Center 5000 Hanson Dr 4213 9/21/2023

FreeFlight Systems 8080 Jetstar Dr Ste 100 3812 9/6/2023

Freight Crafters RS1 Crafting & Packaging 8904 Royal Ln 2441 5/17/2023

Harvest Ice 309 N Belt Line Rd Suite 105 2097 6/13/2023

Horizon Global Americas Inc 5355 FAA Blvd Suite 100 4225 5/24/2023

Ibanez AGM Countertops LLC 2200 Regency Dr 3281 5/18/2023

Inchon Food Co 845 N Belt Line 2099 5/17/2023

Irving Counter Top 101 N Irving Heights Dr 3281 9/6/2023

La Crème Coffee & Tea 3225 Premier Suite 100 2095 4/12/2023

Mentor Polymer Technologies 3041 Skyway Circle N 2822 11/30/2022

Nusil Technology 6125 W Campus Circle 2822 5/25/2023

Omega Environmental Technologies 1401 Valley View Lane Suite 100 3585 5/22/2023

Orbital Systems 3807 Carbon Rd 3663 5/9/2023

Pegasus Logistics Group 2800 Valley View Ln Suite 110 4213 9/21/2023

Progressive Laboratories 3131 Story Rd W 2834 7/20/2023

Reata Pharmaceuticals 2801 Gateway Dr Suite 150 2834 6/26/2023

Rubaroc LLC 8050 Jetstar Drive Unit 150 3069 5/1/2023

Shermco Industries 2425 E Pioneer Dr 3621 6/13/2023

Siegwerk 2030 Century Center Blvd Suite 16 2893 6/22/2023

Sonoco 5111 Frye Rd 2655 6/12/2023

Texas AirSystems 6029 Campus Circle Drive West Suite 100 3585 5/23/2023

**Total Inspections 39**

**MCM 6 III. Inspection of Construction Sites** - The City of Irving issues *Warning Notices* and *Stop Work Order* letters to construction projects not using and maintaining appropriate structural and/or nonstructural pollutant reduction measures as determined by comparison to site construction plans submitted to the City of Irving, the *USEPA Baseline Construction General Permit Checklist*, or physical evidence that the installed measures are ineffective (i.e., mud in the public right-of-way, trash, etc.). **The Capital Improvement Program/Engineering Division** performs inspections on private development projects during the permit reporting year and issues verbal warnings, stepping up to written *Warning* notices and *Stop Work Orders* construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan.

In addition, *SWPPP* inspections are conducted on capital improvement projects. Deficiencies are documented and resolved under the direction of the engineering construction inspector with oversight of the project with the deficiency. Written Warning notices and Stop Work Orders are issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan. The city requires all earth-moving operations to obtain a grading permit if they had not applied for a building permit prior to the commencement of excavation operations.

**Summary from previous year: Municipal Drainage Utility** – Performed 537 inspections on private development projects during the permit reporting year and issued 16 written Notices of Violation and 3 Stop Work Orders to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases. In addition, 92 inspections were conducted on capital improvement projects. Deficiencies were documented in 15 cases and resolved under the direction of the engineering construction inspector with oversight of the project. Two Notices of Violation were issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases. Detailed records of construction site inspections and enforcement issued are included in Appendix F.

**Inspections Department** – Conducted 29,452 total trade inspections that included an erosion and sedimentation controls check. Erosion inspections are performed at every building inspection. If there is a problem, the inspection will fail. Once everything has been corrected, the inspection gets called in for a re-inspection. This continues to happen until there is full compliance or an “approval” of the inspection. Compliance was attained in all cases.

**MCM 8 I. Dry Weather Screening** - The City of Irving performs an average of 120 dry weather field screenings per year. Any flows found will be investigated to find the sources of flows and investigated using expert knowledge and GIS maps of the MS4 and any violations corrected. Data collected will be included in *Appendix I*. Samples of flows are collected and analyzed for the following parameters:

**Parameter Reporting Units**

Ammonia parts per million (ppm)  
Chlorine parts per million (ppm)  
Copper, total parts per million (ppm)  
Detergent parts per million (ppm)  
pH Standard Units (S.U.)  
Phenols parts per million (ppm)

**Summary from previous year:** In the period from October 1, 2022 to September 30, 2023, a total of 190 outfalls were inspected for discharges. Of these, 21 were found to have flow. The sources of flows were investigated using expert knowledge and GIS maps of the MS4 and found to be due to groundwater, irrigation runoff, and one newly constructed water line being flushed. All outfalls were marked with GPS and photographs taken of the outfalls as well as upstream and downstream photos.

**MCM 8 II. Wet Weather Screening** - The City of Irving monitors 8 storm events per permit year. The City of Irving, using mobile wet weather samplers, will monitor storm events during the permit reporting period. The City will screen sites on the various receiving waters: Shown on the map below. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site. The following chemical analyses will be performed on grab samples: hardness, pH, temperature, DO, DO%, conductivity, grease & oil, e. coliform and fecal streptococcus. The following testing will be performed on composite samples: BOD, COD, 26 Nitrite+Nitrate-Nitrogen, TKN,



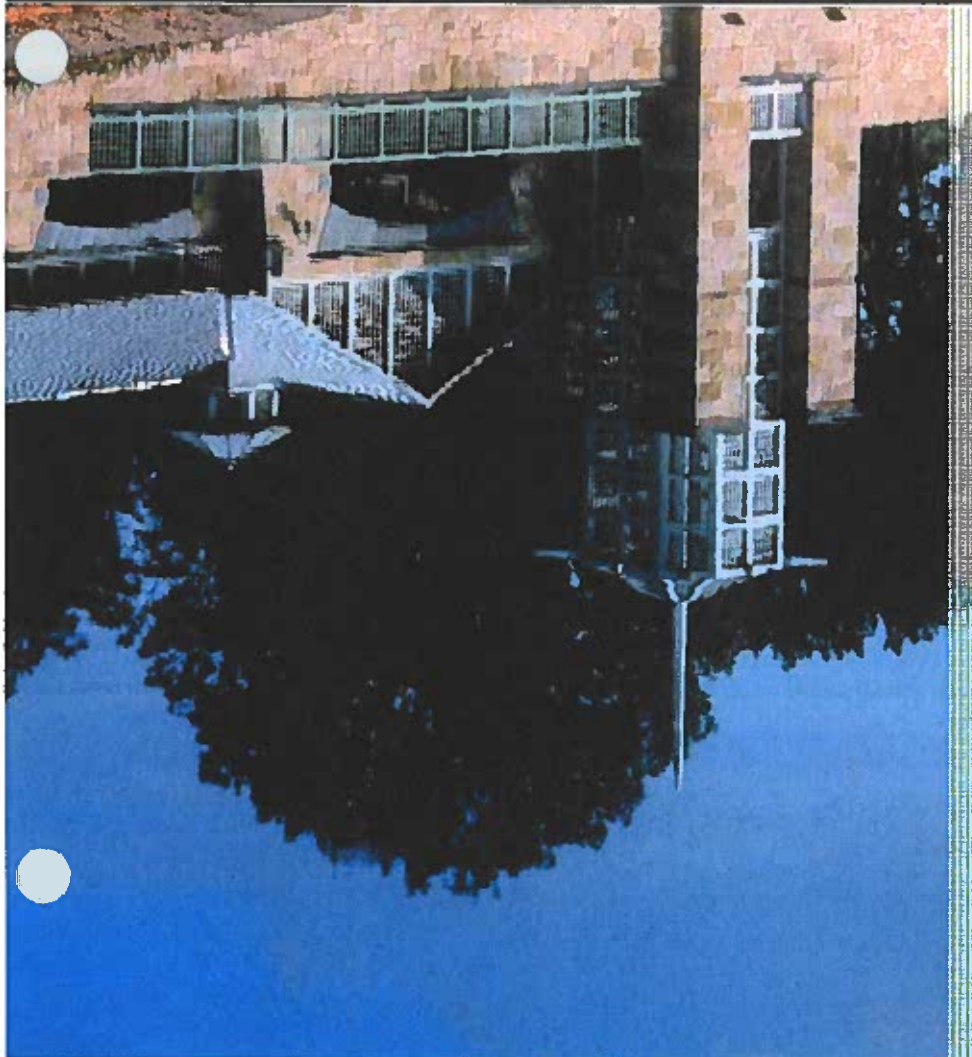
Phosphate (total), Ortho-phosphate, TDS, TSS, Cadmium (total), Copper (total), Chromium (total), Nickel (total), Lead (total), Zinc (total), Diazinon, Ammonia Nitrogen and Arsenic.

**Summary from previous year:** The City of Irving, using mobile wet weather samplers, monitored eight storm events during the permit reporting year. We screened 15 sites on the following receiving waters: Cottonwood Creek, Dry Branch, West Irving Branch, Bear Creek, Estelle Creek, Delaware Creek and Hackberry Creek. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site.





# City of Irving, Texas



TPDES Permit No.  
WQ0004691000

February 2015

## Storm Water Management Plan

Updated: October 27, 2017





February 6, 2015

Rebecca L. Villalba, Stormwater and Pretreatment Team Leader  
Texas Commission on Environmental Quality  
Wastewater Permitting Section – Storm Water and Pretreatment  
Mail Code 148  
P.O. Box 13087  
Austin, TX 78711-3087

RE: Revised Storm Water Management Plan for the TPDES – MS4 Permit No. WQ0004691000  
Dated August 6, 2014.

Dear Ms. Villalba:

Please find enclosed the Revised Storm Water Management Plan for the renewed August 6, 2014 Texas Pollutant Discharge Elimination System MS4 Permit No. WQ0004691000 on behalf of the City of Irving, Texas, and the following co-permittees:

- Dallas County Flood Control District No. 1
- Dallas County Utility and Reclamation District
- Irving Flood Control District, Section I
- Irving Flood Control District, Section III

Should you have any questions or require additional information regarding this revised submittal, please contact Garry Fennell at (972) 721-3721, fax (972) 721-2592 or e-mail [gfennell@cityofirving.org](mailto:gfennell@cityofirving.org).

Sincerely,

  
Wayne E. Lee, P.E., CFM  
City Engineer

Enclosure

pc: Chris Hillman, City Manager  
Ramiro Lopez, Assistant City Manager  
Casey Tate, Capital Improvement Program Director  
Dan Vedral, P.E., CFM, Traffic and Transportation Director  
Garry Fennell, P.E., CFM, Senior Civil Engineer  
Texas Commission on Environmental Quality – Water Section, Region 4 Office, 2309 Gravel Road, Fort Worth, TX 76118-6951  
Mr. Robert M. Nelson, Jr., Dallas County Flood Control District No. 1, 2417 Garden Oaks Drive Irving, TX 75061  
Mr. Jacky L. Knox, Dallas County Utility and Reclamation District, Irving Flood Control District, Section I and Irving Flood Control District, Section III, P.O. Box 140035, Irving, TX 75014-0035  
File



**TPDES PERMIT NO.  
WQ0004691000**

**Storm Water Management Plan**

**February 2015**

---

THIS PAGE INTENTIONALLY LEFT BLANK.



## **Storm Water Management Plan (SWMP)**

### **Minimum Control Measures (MCM)**

Introduction		i
MCM 1	MS4 Maintenance Activities	
	I. Structural Controls	1
	II. Floatables	2
	III. Roadways	4
MCM 2	Post-Construction Storm Water Control Measures	
	I. Comprehensive Master Planning	4
	II. Flood Control Projects	5
MCM 3	Illicit Discharge Detection and Elimination	
	I. Prohibited Discharges	6
	II. Allowable Discharges	7
	III. Discharges from Fire Fighting Activities that have Significant Sources of Pollution	7
	IV. Detection and Elimination of Illicit Discharges	7
	V. Overflow and Infiltration	10
	VI. Household Hazardous Waste	12
	VII. MS4 Screening and Illicit Discharge Inspections	12
	VIII. NPDES and TPDES Permittee List	13
	IX. MS4 Map	13
	X. Spill Prevention and Response	13
	XI. List of Priority Areas to Inspect for Illicit Discharges	14
MCM 4	Pollution Prevention/Good Housekeeping for Municipal Operations	
	I. Pollution Prevention and Good Housekeeping Program	14
	II. Structural Control Maintenance Measures	14
	III. Waste Handling	15
	IV. Pesticide, Herbicide, and Fertilizer Application	15
	V. List of Municipal Facilities	16
MCM 5	Industrial & High Risk Runoff	
	I. Priorities and Procedures for Inspection and Implementation of Control Measures	18
	II. Industrial and High Risk Monitoring Program	19
MCM 6	Construction Site Storm Water Runoff	
	I. Construction Site Runoff Ordinance	19

	II. Requirements for Structural and Non-Structural Best Management Practices (BMP)	19
	III. Inspection of Construction Sites and Enforcement Requirements	20
	IV. Education and Training for Construction Site Operators	20
	V. Notification of Requirements to Construction Site Operators	21
	VI. List of Construction Sites	21
	VII. Status of Compliance with New Requirements	21
<b>MCM 7</b>	<b>Public Education and Outreach/Public Involvement and Participation</b>	
	I. Public Education and Outreach	22
	II. Public Involvement and Participation	24
	III. Evaluation of the Effectiveness of this MCM	25
<b>MCM 8</b>	<b>Monitoring, Evaluation and Reporting</b>	
	I. Dry Weather Screening Program	25
	II. Wet Weather Screening Program	25
	III. Industrial and High Risk Runoff Monitoring Program	28
	IV. Wet Weather Characterization Program	29
	V. Floatables Monitoring	29
	<b>Implementation Plan for the Eight Total Maximum Daily Loads for Bacteria in the City of Irving</b>	<b>29</b>

## INTRODUCTION

This Storm Water Management Plan (SWMP) is revised from the City of Irving's existing SWMP to be in the same revised order as required by the Annual Report. The SWMP details the Best Management Practices (BMPs) that the City currently uses as well as the new requirements in the City's renewed permit that went into effect August 6, 2014. These best management practices and measurable goals have been discussed in the body of this SWMP.

Within the City of Irving, the Street Services Division is inspecting, cleaning, clearing, and maintaining stormwater mains and structural controls, including removing debris and silt from these areas.

The four Flood Control Districts (FCDs), the City's co-permittee partners, maintain their Levees, canals, sumps, lakes and ponds removing silt and debris from their MS4 systems as well.

The Parks Department in the *Parks Litter Control Management Program* remove litter and floatables from park properties on a daily basis. The *Corridor Litter Abatement* initiative removes floatables from street right-of-ways (ROW) and inlets. Contract maintenance on rights-of-way around the city removes more floatables annually. It is the City's policy to remove as much floatable litter from the environment as possible before it reaches our MS4 and streams.

The four FCDs also remove floatables from their canals, sumps, ponds and lakes on an annual basis.

Additionally, tons of litter, debris and trash were diverted from receiving waters in public participation cleanup events such as the Trinity Trash Bash.

Home chemicals were retrieved from residential curbsides by the City's Special Waste vehicle. Hundreds of Irving households participated in various single-day home chemical collection events or took their unwanted products to the *Dallas Area Household Hazardous Waste Network* drop-off site.

Code Enforcement officers worked complaints such as litter, improperly maintained dumpsters, and stagnant water that, if left unabated, could have contaminated the MS4. Environmental Compliance inspectors investigated and required immediate cleanup on private and public sewer overflows and stormwater-related complaints which also may have endangered receiving waters.

Street sweepers complete a total of 4 full sweeps of the City's curb and gutter concrete streets, all surface level parking areas, and other facilities under municipal jurisdiction removing particulate matter. They performed 10 complete sweeps of all major thoroughfares (approximately 10,000 miles of roadway surface) removing debris and particulate matter that would have mingled with runoff and eventually, the City's receiving waters.

The Capital Improvement Program Department continues to bid and award projects to repair or replaced existing waste water systems and upgrade the system that the master plan has found to be inadequate. These projects reduce the number of sewer breaks and inflows which contribute to sanitary sewer outflows (SSO) into drainage ways and receiving waters. The Water Utilities Department continues to clean and televise over a half million linear feet of waste water sewer services and mains per year.

Environmental Compliance inspectors perform several inspections on high-risk or industrial facilities in the *Pretreatment Program* verifying their compliance with stormwater best management practices and perform several more inspections of industries with SIC codes that indicate the need for special attention for stormwater concerns.

The City of Irving bids several projects for channel repairs, capacity improvements, and erosion controls annually. The City allocates Municipal Drainage Utility funds to assist the City's co-permittees in dredging district canals, lakes and waterways to maintain proper depths improving water quality by removing those sediments as a source of pollutants to the City's receiving waters.

Engineering inspectors make construction inspections during the reporting year; several grading permits are issued, construction plans for sites over 5 acres are examined and *Construction Site Notices* for sites under 5 acres are received and reviewed annually. They also resolve construction situations that would have contributed to the pollution of the MS4 is part of the Cities SWMP.

As an actively participating member of the *North Central Texas Council of Governments Regional Monitoring Program*, efforts are ongoing to accumulate enough of the appropriate data to show that our SWMP is reducing the pollutant of concern in 303d listed waterways. The City has implemented plans of action developed to reduce the discharge of pollutants to the waters of the state and to qualitatively improve (measured indirectly and detailed as the City's measureable goals in the body of this SWMP) those receiving waters. These actions positively impact the quality of the City's receiving waters.

The City is participating in the Implementation Plan for Seventeen Total Maximum Daily Loads (TMDL) for Bacteria in the Greater Trinity River Region (Upper Trinity River I Plan) prepared by the North Central Texas Council of Governments (NCTCOG) in partnership with several Cities as well as Public and Private Partners.

## **MINIMUM CONTROL MEASURE 1: Maintenance Activities**

### **(MCM 1) Maintenance Activities**

#### **MS4 Maintenance Activity**

##### **I) STRUCTURAL CONTROLS**

The City of Irving and its four Flood Control Districts (FCDs) Co-Permitees have an extensive system of lakes, ponds, canals and channel improvements which act as structural controls. Each time a stream enters a lake or improved body of water silt is deposited on the upstream end of the water body. Floatables that are carried into the pond are often deposited onto the edge of the water body and a smaller amount of floatables exits the water body and travels downstream.

This system of lakes requires a large amount of maintenance which is discussed both in the structural section of this maintenance report and in the floatables section as well.

##### **City of Irving Maintenance Practices**

**Transportation Department/Streets Division** – The objective of each inspection is to find and remove any debris, litter and large deposits of silt and gravel which may pollute or impede stormwater runoff. Following every rain event that produces significant runoff, each street that crosses a culvert or bridge is checked and cleared of any accumulated debris or vegetation. The United States Army Corps of Engineers (USACE) sponsored Delaware creek project reduced erosion and increased flood carrying capacity of Delaware creek. However it also causes silt deposition throughout the project.

**Capital Improvement Program Department** – The city expends Municipal drainage Utility MDU funds on projects for channel and levee repairs, dredging, capacity improvements, erosion control and removal of floatables. These projects are bid publicly and completed by contractors.

**The four Flood Control Districts FCDs that are the City's partners in the permit also perform maintenance on their structural controls, sumps and ponds.**

##### **Dallas County Flood Control District No. 1 (DCFCD1)**

A status review of DCFCD1 is done annually. The annual review report is completed by representatives from the district's engineering consultants. Based on the field review, recommendations are made for immediate repairs as well as possible future repairs. Those recommendations are then evaluated by the district and implemented as appropriate. Additional field reviews are performed as needed by the district's engineering consultants to address specific concerns related to drainage and structural integrity.

The District also has a contractor who removes silt and topsoil from the Bear Creek Floodway to insure flood conveyance. The floodway is also mowed on a regular basis to keep trees and brush from clogging the floodway and increasing silt deposits.

##### **Dallas County Utility & Reclamation District (DCURD)**

Debris is removed daily from the canals and sumps but only reported when weighed and measured by the contracted waste hauler.

DCURD owns a floating dredge and two long arm excavators which are constantly removing silt from the lakes, ponds, canal and streams of the DCURD MS4 drainage system. DCURD administers an ongoing, aggressive, dredging program to maintain flood control capacity and water quality in district waterways.

**Irving Flood Control District Section I (IFCD1)**

IFCD#1 hires contractors to remove silt from the sumps and ditches to maintain the drainage storage capacity and conveyance of flood waters in the district.

**Irving Flood Control District Section III (IFCD3)**

IFCD3 hires contractors to use floatable dredges to maintain their ponds and canals on a regular basis.

**(MCM 1) Maintenance Activities**

**II) FLOATABLES**

**Parks and Recreation Department – Corridor Division: Channel and Inlet Crew** – The department employs three full-time employees that are inspecting and cleaning drainage channels, curb inlets and inlet baskets in the Municipal Separate Storm Sewer System (MS4).

**Parks and Recreation Department – Corridor Division** administers a *Litter Control Management Program* which covers parks, city facilities, public grounds, medians, rights-of-way, drainage channels and storm inlet maintenance. The department developed a standard operating procedure for the program which allocated Parks and Recreation forces and maintenance contract resources to address litter removal on park properties, city facilities and city rights-of-way to the maximum extent practicable.

The *Litter Control Management Program* is responsible for a total of 2,329.60 acres of parkland, public grounds, medians and rights-of-way throughout its jurisdiction including approximately 1,830.98 acres of parks and public grounds; 330.99 acres of street medians, parkways, rights-of-way, surplus non-park properties and highway interchanges; 167.63 acres of state rights-of-way; and 67.87 acres of drainage channels. Additionally, approximately 250 miles of city rights-of-way and drainage areas received regular litter control. Of that number, 120.35 miles of medians are maintained by contract and 158.03 miles of medians, rights-of-way and drainage areas by a full-time corridor litter control staff. Most parkland properties are maintained by city forces; however, the department administers several grounds maintenance contracts which provide regular litter control on medians; rights-of-way; state highways; and building grounds properties. In general, these maintenance contracts provide services nine months per year.

**The Corridor Litter Abatement Team (Corridor Team)**, Fourteen full-time members, provide litter control on 158.03 miles of primary street medians, rights-of-ways and drainage areas.

To improve customer service and facilitate reporting of corridor litter and shopping cart issues, the department publicizes and maintains a 24-hour reporting hot line phone

number ( 972-721-5487) for external customers. Employees call the *Eyes on Irving* hot line (972-721-7777) to report these issues.

The Parks and Recreation Department administers a shopping cart ordinance that requires shopping cart owners to register their equipment with the city, label their carts and holds owners responsible for retrieving any carts which leave their business premises. Fines may be levied for any business which violates the terms of the ordinance. Any carts which have to be retrieved by the city are held at a city facility and may be retrieved by their owners for a fee.

The *Litter Control Management Program* removes litter from park properties using two packer trucks.

The City's general philosophy is that the more trash removed from the ROW and parks before it reaches the City's streams and lakes then the better the program is.

**Dallas County Flood Control District No. 1 (DCFCD1)**

DCFCD1 has one contractor who works 40 hours a week maintaining district property including removing floatables and other debris from the sump and floodway of the district.

**Dallas County Utility & Reclamation District (DCURD)**

DCURD dedicates four full-time employees and two trucks to removing floatables from district waterways and preventing pollutants from entering the Elm Fork of the Trinity River. The district focuses on waterway debris removal following heavy rain events by assigning up to six additional crew members to assist with this vital task. The district uses one, securely-located, 30-yard, open-top container for the sole purpose of measuring and removing floatables that are collected.

**Irving Flood Control District Section I (IFCD1)**

The district has a crew of two employees to inspect and remove floatables from district waterways and levees on a daily basis in order to prevent pollutants from entering the Elm Fork of the Trinity River. The district maintains a secured, 30-yard, open-top trash container for the sole purpose of measuring and removing the collected floatables. Debris is removed daily but only reported when weighed and measured by the contracted waste hauler.

**Irving Flood Control District Section III (IFCD3)**

The IFCD3 has a crew of five to inspect; clear; maintain levees; and removing debris from district waterways for. Debris is removed daily but only reported when the 30 yard open top trash container is weighed and measured by the contracted waste hauler.

**Public Participation in *Keep Irving Beautiful* (KIB)**

*Keep Irving Beautiful* (KIB) conducts one major public cleanup, the *Trinity Trash Bash*, and supported the semi-annual cleanup of Lake Vilbig. In addition, KIB conducts 1 smaller scale cleanup with community partners.



KIB's fall cleanup is the *Trinity Trash Bash*, which is part of the *Texas Waterway Cleanup Program*, sponsored by *Keep Texas Beautiful*.

KIB also provides supplies and volunteers to the *Irving Lake Association* for the fall and spring cleanup of Lake Vilbig.

In addition, KIB provides opportunities for court-ordered community service workers to earn hours by picking up litter in Irving neighborhoods and on Irving's roads.

#### **(MCM 1) Maintenance Activities**

##### **III) ROADWAYS**

###### **City Maintenance**

The City of Irving's street sweeping program consists of 79 routes. The routes were developed to provide a systematic method of sweeping all curb and gutter concrete streets, all surface level parking areas and other facilities under municipal jurisdiction. The current route methodology provides for four complete sweeps of the entire jurisdiction and ten complete sweeps of all major thoroughfares every 12 months.

The City of Irving Streets Division deploys crushed limestone "sand" on roadways during icy road conditions using city equipment for distribution and cleanup. Street sweeping of the road sanding areas and routes is required after any icing event.

###### **Dallas Area Rapid Transit (DART)**

The City of Irving considers any alternate method of transportation as a benefit to the MS4 since there is less chance of fuel, lubricants or oil dripping on the pavement, less chance of a lead tire weights falling off a moving vehicle and having a negative effect on the aquatic environment. There is also less air pollution that can interact with rain and be deposited in the waters of the U.S. and the MS4.

The City of Irving remains a member city of the *Dallas Area Rapid Transit (DART)* program. Bus ridership, train ridership terminating at Irving stations on the *Trinity Railway Express (TRE)* and rides from the electric Irving *Light Rail* stations for mass transit rides.

The city promotes alternatives to individual petroleum fueled vehicle use by hosting bicycling events, installing electric vehicle charging stations at city facilities, celebrating and promoting the expansion of commuter rail service, and publishing availability.

#### **MINIMUM CONTROL MEASURE 2: Post Construction Storm Water Control Measures**

##### **(MCM 2) Post Construction Storm Water Control Measures**

###### **I) COMPREHENSIVE MASTER PLANNING**

The Majority of the City of Irving is in an area that has been master planned by one of our four Flood Control Districts (FCDs). These FCDs were master planned for fully developed flows both in the FCD and going through the FCD from outside drainage areas.

The 38% of the city that does not drain through a FCD has been under a master planning process. This area of the city is 95% developed but under old drainage criteria that does not meet current drainage expectations. A major criteria of new drainage projects is that no increase in downstream flooding or erosion may occur. Delaware Creek comprises 13% of the City of Irving and a draft of its master plan was completed in June 2014 and is under review.

As part of the master planning the City of Irving continues to convert the floodplain along the Elm Fork and West Fork of the Trinity River into park land. The city has also acquired large tracts of land and created parks along the creeks in the 38% of the city not in FCDs.

The city has adopted the enhanced development/redevelopment guide, *iSWM Design Manual for Site Development*, spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Stormwater Management and Drainage Ordinance Sect. 35.

The city continues to enforce several new regulations adopted over the past several years and evaluate the need for refinements.

Irving's *Landscaping and Tree Preservation Ordinance* established provisions to protect and extend the urban forest and to ensure that adequate landscaping is provided to create and maintain a pleasant visual environment. The city continues to enforce the landscaping regulations adopted over the past several years and evaluate the need for refinements. The City of Irving has also adopted a Landscaping and Tree Preservation Ordinance for city property.

Irving, an official *Tree City USA*, holds annual observances, community forestry education programs and other initiatives that promote environmental sustainability during the year. The *Tree City USA* program, sponsored by the Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters, provided direction, technical assistance, public attention and national recognition for our urban/community forestry program. Pursuit of the designation, *Tree City USA*, demonstrated that Irving is a community that really cares about its environment.

## **(MCM 2) Post Construction Storm Water Control Measures**

### **II) FLOOD CONTROL PROJECTS**

**City-owned and Public Lands** – On the Elm Fork and West for of the Trinity River the city maintains the previously established "*Trinity River Greenbelt*," known as Campión Trail and continues to acquire open space and recreation areas in the floodplain of the Trinity River in accordance with uses identified in the *Parks and Open Space Master Plan*.

Plans are continuing for the southern extension westward to tie into the city of Grand Prairie's Lone Star Trail. The plan will extend the trail one and three-quarters miles. The City of Irving has been notified by Dallas County of funding for additional trails which will extend Campión Trail on the north end in Valley Ranch.

The city continues to study the severity of flooding in some of its major drainage ways such as Embassy Channel, a branch of Delaware Creek, as well as another branch of Delaware Creek, Brockbank Channel, for flooding in its watershed. The Delaware Creek Master Plan analyzed the cumulative impacts of these projects on the watershed and intends to make improvements to these channels that will reduce flooding and erosion.

**DCFCD1** engineering consultants evaluate district appurtenances annually and report recommendations to the district. Recommendations address issues such as infrastructure repair, vegetation control and sediment removal to maintain sump capacity and provide flood control. The pump station motors and pumps are tested monthly and mowing is done regularly to control vegetation.

**DCURD** continues to administer an ongoing, aggressive, dredging program to maintain flood control capacity and water quality in district waterways.

**IFCDI** manages, maintains and controls three and one-half miles of levees, sump capacity, drainage channels, outfall channels, two pump stations, sluice gates, a SCADA control system and necessary, related appurtenances to prevent flooding to property in the district. Accumulated silt, debris and vegetation are removed from the sumps. Work continues towards a 408 submittal to the USACE for major rehabilitation and improvement of the East Levee System.

**IFCDIII** maintains sump capacity; drainage channels; a pump station; sluice gates; and a gravity outfall channel to control flooding.

**Private Development** – The City of Irving, in accordance with the U.S. Corps of Engineers Section 404 permitting requirements, requires channels in new developments to be left in a non-erosive, natural condition.

### **MINIMUM CONTROL MEASURE 3: Illicit Discharge Detection and Elimination**

#### **(MCM 3) Illicit Discharge Detection and Elimination**

##### **I) PROHIBITED DISCHARGES**

The City of Irving prohibits and makes allowances for certain types of non-storm water discharges to the municipal separate storm sewer system under Irving Code of Civil and criminal Ordinances, Chapter 41, Sec. 41-61. General Prohibition.

The city prohibits certain types of non-storm water discharges to the Municipal Separate Storm Sewer System under Irving Code of Civil and Criminal Ordinances, Chapter 41, Sec. 41-62. Specific prohibitions and requirements.

### **(MCM 3) Illicit Discharge Detection and Elimination**

#### **II) ALLOWABLE DISCHARGES**

Categories of non-storm water discharges that the permittees may exempt from the prohibition on non-storm water entering the MS4 include the following: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration (\*); uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; street wash water; individual residential vehicle washing; wash waters using only potable water and which are similar in quality and character to street wash water or individual residential vehicle washing but without the use of detergents or surfactants; flows from riparian habitats and wetlands; de-chlorinated swimming pool discharges; other allowable non-storm water discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1); other allowable non-storm water discharges as listed in the TPDES Construction General Permit No. TXR150000 and TPDES Multi-Sector General Permit No. TXR050000; as well as other similar occasional incidental non-storm water discharges, unless the TCEQ develops permits or regulations addressing these discharges.

### **(MCM 3) Illicit Discharge Detection and Elimination**

#### **III) DISCHARGES FROM FIRE FIGHTING ACTIVITIES THAT HAVE SIGNIFICANT SOURCES OF POLLUTION**

The City of Irving Emergency Operation Plan: Annex F - Firefighting under Section VI. Organization and Assignment of Responsibilities task Water Utilities with Responding to any hazardous chemical and petroleum products to protect the environment and prevent their entry into the waters of the MS4 or the State. This assignment applies for both vehicle and structural fire situations.

### **(MCM 3) Illicit Discharge Detection and Elimination**

#### **IV) DETECTION AND ELIMINATION OF ILLICIT DISCHARGES**

**Any Non Storm water Discharges are Prohibited if they Cause significant Pollution**  
Chapter 41 Section 41-6 General Prohibition of Pollution addresses this issue.

##### **Elimination of Illicit Discharges and Improper Disposal**

The city uses a step-enforcement program (or escalating method of code enforcement) to gain compliance and correct illicit discharge and improper disposal violations.

**The Water Utilities/Environmental Compliance Section** uses the following process for enforcement actions:

- (1) Environmental compliance staff, upon finding a violation, issues a *Notice of Violation* and assesses the level of difficulty for the discharger to cease the violation.
- (2) In most cases, the problem is required to be rectified within 48 hours and a follow-up inspection is performed to determine compliance.
- (3) If the violation still exists, but there is evidence that there has been an effort to correct the problem, then staff determines if there is a need for the violator to develop a plan of action to remove the discharge.
- (4) Upon re-inspection, if staff determines that there is no evidence of effort to rectify the problem or if they determines that the violation still exists after the deadline set by an action plan, then a citation is issued and the matter referred to the court system.

Under the Irving Code of Civil and Criminal Ordinances, Chapter 41 Section 41-71, the violator can be subject to a fine of up to \$2,000 per day, or any greater fine authorized by state statute.

- (5) If the city exhausts all enforcement options and the violation remains, the case is referred to the appropriate state or federal authorities.

**The Code Enforcement Department** utilizes the following process to gain compliance to correct trash, stagnant water, illegal dumping and sewage discharge violations:

- (1) A code enforcement inspector, upon finding a violation, issues a *Notice of Violation* and establishes the appropriate time frames to correct the code violation(s).
- (2) In most cases, the inspector requires the problem to be rectified within one to ten days depending on the violation(s). A follow-up inspection is performed to determine compliance.
- (3) Upon the final re-inspection, if the violation(s) still exist and there has been no response or improvement by the property owner the inspector issued a citation. Enforcement continues until the violation(s) is/are abated. Under the Irving Code of Civil and Criminal Ordinances Chapter 33 Section 33-20 and Land Development Codes Chapter 1144 Section 52-56 and Chapter 8 Section 8-26 the violator can be subject to a fine of up to \$2,000 per day, or any greater fine authorized by state statute.
- (4) If the city exhausts all enforcement options and the violation(s) is/are not abated, the case is referred to the city Attorney's Office for options, which may include the filing of a *Chapter 54* lawsuit to obtain a *Permanent Injunction*.

**The Capital Improvement Program/Engineering Division** uses the following process for gaining compliance with the *TPDES General Construction Permit* on construction projects to prevent the discharge of pollutants into the drainage system:

- (1) When problems are observed or corrections are needed, a verbal notice is issued to the violating company's on-site representative or by telephone to the company's main office personnel.
- (2) If the company does not respond, a written warning is issued (if possible) to the company's on-site representative and a copy sent to the company's main office.
- (3) If the company does not comply with the written warning, a *Stop Work Order* (a written directive from the Capital Improvement Program/Engineering Division that requires all on-site construction activities to cease until compliance has been achieved) is issued to the company and results in:
  - a. The Planning and Inspections Department suspending all job site inspections until notification that compliance has been achieved.
  - b. If construction (other than those activities necessary to gaining compliance) does not cease, the Planning and Inspections Department issues citations to company employees and the company becomes liable for civil penalties in accordance with the appropriate sections of city code.
- (4) If compliance is still not obtained, the *Texas Commission on Environmental Quality* is notified and requested to inspect the job site, suspend the job site permit and issue punitive measures as appropriate.
- (5) In addition, the *U.S. Environmental Protection Agency* is notified and requested to inspect the job site to have federal punitive measures instituted as appropriate.

In the case of a City of Irving Capital Improvement Project, final payment for the project is withheld from the operator pending submittal of a copy of the completed storm water pollution prevention plan (SW3P) including all reports and records kept in the development of the SW3P in accordance with the *TPDES Construction General Permit, TXR150000*.

**The Planning and Inspections Department** includes an overall job site evaluation for erosion and sedimentation controls in trade inspections on new construction. The inspectors use the following procedures to gain compliance:

- (1) For minor violations or the initial discovery of more extensive problems, the inspector issues a verbal warning. Verbal warnings are informal and, typically, not documented.
- (2) For continued violations or those of a more extreme nature, a "red tag" is left with the on-site construction representative with a timeline set for correction. No further inspections are done if erosion and sedimentation controls are not in place.

- (3) Upon reinspection, if corrections are not made to violations set forth in the "red tag" or for violations presenting a life-threatening hazard or of an immediate danger to the environment, a *Stop Work Order* is issued to the company requiring all on-site construction activities to cease until compliance has been achieved.
- (4) If these measures fail to gain compliance, citations are issued.

### **(MCM 3) Illicit Discharge Detection and Elimination**

#### **V) OVERFLOW AND INFILTRATION**

The city performs a variety of activities as part of its program to eliminate spills, overflows, inflow and infiltration. These include smoke testing, manhole inspections, dyed-water flooding, a regular program of preventive maintenance cleaning and TV inspections followed by remedial construction.

**Consultant Contracts** – A *Sanitary Sewer Evaluation Survey (SSES)* are usually performed every three years. This SSES evaluates the condition of pipes and man holes in a sewer basin. A prioritized list of needed sanitary sewer rehabilitation, repair and replacement projects is created. Operations staff entered the repairs identified into the computer maintenance management system to be scheduled and completed.

##### **A. Sewer System Preventive Maintenance/Repair Summary**

Several thousand linear feet of sanitary sewer services and mains will be cleaned as part of the *Preventative Maintenance* program. There will be manhole rehabbed or repairs done as well.

##### **B. Operations**

The city operates a *SCADA (computerized Supervisory Control and Data Acquisition)* system to manage water distribution and wastewater collection including 10 sanitary sewer lift stations. *SCADA* continuously monitors and reports the level of wastewater in the lift stations; the status of pumps; alerts operators to power failures; and provides an intrusion alarm. Continuous monitoring of the lift stations alerts *SCADA* operators to potential maintenance issues that staff can respond to before a more serious failure occurs.

Flygt controllers and back-up float systems (in the event that the controllers fail) are installed at all lift stations. The controllers provide extensive information about how the pumps at the lift stations are operating which promotes more efficient operation and helps minimize downtime.

In addition to monitoring lift stations via the *SCADA* system, the city deploys two manhole covers with flow monitors to prevent sanitary sewer overflows. These devices monitor sewage in targeted parts of the system and notify the *SCADA* operators if levels reach a pre-determined level so that a crew can be dispatched to the location for maintenance prior to an overflow occurring.



**Reported SSOs and TCEQ SSO Initiatives**

Upon notification or discovery of sanitary sewer overflows or breaks, city personnel clear blockages and recover waste material. Affected areas are cleaned and disinfected. Repairs are made as needed.

During the reporting year, property owners will be notified of overflows on private sites. *Notice of Violation* will occur and most will have follow-up inspections scheduled. Those not requiring follow-up inspections were corrected before or during the initial inspection. The city will assumed responsibility for overflows that occurred in the public system including cleanup and system repair.

The city participates in the Texas Commission on Environmental Quality's *Sanitary Sewer Overflow (SSO) Initiative* which was developed to reduce sanitary sewer overflows across the state. The agreement with the state, approved in March 2007, included measures to reduce grease in the sanitary sewer system through public education, revision of city ordinances and more frequent cleaning and videotaping of the sewer system.

**C. Public Education**

Public Education will be discussed in the MCM 7 portion of this SWMP concerning Fats Oil and Grease (FOG) program.

**D. Revisions of City Ordinances**

As a result of the city's participation in the *SSO Initiative*, the ordinance dealing with liquid waste transporters was updated in July 2007. It required all grease traps be cleaned every ninety days.

**Increased Cleaning and Televising**

The city takes specific actions to implement the SSO Initiative program including cleaning at least 500,000 feet and televising a minimum of 75,000 feet of the system per year.

**E. Wastewater Construction Projects****Inflow Infiltration Projects**

The city continues to evaluate the sanitary sewer system for inflow and infiltration problems. Projects are awarded, continued, or planned based on the findings of this and past evaluations.

**Waste Water Master Plan Projects**

In September 2009, the city adopted a comprehensive *Wastewater Master Plan* to meet regulatory obligations by providing long-term guidance and prioritization for sanitary sewer interceptor and collection system capital improvements.

Projects resulting from the plan are designed and constructed. As funds become available.

**(MCM 3) Illicit Discharge Detection and Elimination**

**VI) HOUSEHOLD HAZARDOUS WASTE**

The Solid Waste Services Department provide residential curbside pickup of used motor oil, antifreeze, transmission fluid and a variety of household hazardous wastes via a *Special Waste Collection* service. Residents are asked to set their materials for special collection near their regular pickup location and notify the Solid Waste Services office to dispatch the crew to their location. Refuse crews also notify the office when they observed suitable materials set out for collection.

City participation in the *Dallas Area Household Hazardous Waste Network* provides all Irving residents with a convenient, efficient and environmentally-friendly way to dispose of household hazardous wastes such as pesticides, herbicides, fertilizers, auto fluids, batteries, light bulbs, paint, pool chemicals and other household chemicals.

**(MCM 3) Illicit Discharge Detection and Elimination**

**VII) MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS**

In the annual report, an average of 120 outfalls will be inspected for dry weather field screenings for discharges. The sources of flows will be investigated using expert knowledge and GIS maps of the MS4. Data collected will be included in *Appendix G*.

Samples of flows were collected and analyzed for the following parameters:

Parameter	Reporting Units
Ammonia	parts per million (ppm)
Chlorine	parts per million (ppm)
Copper, total	parts per million (ppm)
Detergent	parts per million (ppm)
pH	Standard Units (S.U.)
Phenols	parts per million (ppm)

The Environmental Compliance section investigates storm water-related complaints; the majority of which involved sanitary sewer overflows. In all incidents, immediate cleanup is required.

Departmental policy is to educate violators regarding regulations before issuing tickets or filing charges. Two warnings or "Notices of Violation" (NOVs) are given before enforcement action, such as the issuance of a citation, is taken. Environmental Compliance inspectors will report NOVs and citations issued.

**(MCM 3) Illicit Discharge Detection and Elimination**

**VIII) NPDES AND TPDES PERMITTEE LIST**

A list will be maintained of *Notices of Intent (NOIs)* on file in the Environmental Compliance section of Water Utilities.

**(MCM 3) Illicit Discharge Detection and Elimination**

**IX) MS4 MAP**

The City of Irving has a current accurate MS4 map showing all public outfalls but has not photographed or GPS located all outfalls at this time. All City owned outfalls have been located on our GIS Mapping system and ongoing operations have begun photographing these and private outfalls into the MS4.

The City plans to complete the mapping, photographing and GPS locating of all the outfalls in the allotted 3 year time period.

**(MCM 3) Illicit Discharge Detection and Elimination**

**X) SPILL PREVENTION AND RESPONSE**

**Fire Department**

The Hazardous Materials Team, under the direction of the fire department, is comprised of thirty-six fire department members, divided among three duty shifts. The Hazardous Materials Team is housed at Station 8 located at 650 Las Colinas Blvd. Specialized response equipment is housed with these personnel and was available for response 24 hours a day. Team members will completed at least 72 hours of training in preparation for emergency response annually.

In addition the Irving Fire Department provides training to staff members in other departments.

**Water Utilities**

Environmental Compliance employees attend the 8-hour Hazardous Material Refresher Course presented by the city's fire department hazmat team. This internal training and collaboration improves communication between departments and enhances joint hazmat response.

**Emergency Management**

HAZMAT/plume modeling software is utilized by for the Irving Fire Department HAZMAT Team as well as the Irving Mobile Command Vehicle for any major HAZMAT event in the City of Irving.

The City of Irving participates in the quarterly Dallas County Local Emergency Planning Committee (LEPC) meetings with our local government entities as well as private sector stakeholders involving facilities that store known hazardous chemicals.

**(MCM 3) Illicit Discharge Detection and Elimination**

**XI) LIST OF PRIORITY AREAS TO INSPECT FOR ILLICIT DISCHARGES**

The City is preparing a map of older industrial areas to inspect on a more frequent basis as a part of this MCM. There are only 2 facilities that have had a history of multiple illicit discharges which will also be listed for more frequent inspections.

**MINIMUM CONTROL MEASURE 4: Pollution Prevention and Good Housekeeping for Municipal Operations**

**(MCM 4) Pollution Prevention and Good Housekeeping for Municipal Operations**

**I) POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM**

**A) Identify and Implement**

The City of Irving began a Good House Keeping effort in 2009 of all Municipal facilities. Before the EPA audit of 2010, Industrial inspectors inspected the 6 largest Municipal facilities and brought any issues to the attention of the Facility Managers. There has been a quarterly inspection of these largest facilities ever since. Any deficiencies are immediately brought to the manager's attention and addressed.

The 6 facilities that are inspected quarterly are; Briery Yard, Valley View Municipal Center, Las Colinas Service Center, Fritz Park Maintenance Office, Trinity View Park Maintenance center and the Animal Shelter.

**B) Reduction of Discharges to Maximum Extent Practicable (MEP)**

The City facilities are being well maintained and have a track record of no oil spills or illicit discharges from the yards and vehicle maintenance facilities. Both wet weather and dry weather test of storm water outfalls have test for illicit discharges.

**C) Training for All Employees**

The city has a training program for employees with best management practices (BMP) in place. Documentation of the BMPs is being finalized as part of the Storm Water Management Plan updates and will be complete by the end of the first year of the renewed permit.

**(MCM 4) Pollution Prevention and Good Housekeeping for Municipal Operations**

**II) STRUCTURAL CONTROL MAINTENANCE MEASURES**

The Briery Yard has floor drains in the Fleet Maintenance building that are connected into an oil water separator for the removal of any hydrocarbons before the water drains into a sanitary sewer system. This structure is maintained by an outside contractor. The car and truck wash is a water recycle system which separates dirt, oil, grease and hydrocarbons from the wash water before the water is recycled into the wash system and

used again. This system is maintained by the Water Utilities vacuum trucks on a regular basis.

The Valley View Municipal Complex has two Stormceptors in the storm sewer system where the maintenance vehicles are parked. The Water Utilities vacuum trucks maintain these structures. The sand and gravel piles for regular maintenance are stored in roofed structures as is the crushed limestone sand for winter events.

#### **(MCM 4) Pollution Prevention and Good Housekeeping for Municipal Operations**

##### **III) WASTE HANDLING**

The fleet maintenance facility at Briery has a waste handling BMP and standard operating procedure for all of its fluids.

Used motor oil, hydraulic fluids, brake fluids is collected and placed in a used oil (Waste Oil) tank that is surrounded by a concrete containment wall designed to contain any spills or leaks from the tank operations. Any spills of used oil during vehicle maintenance are collected with Pig Mats that are then squeezed by a press so that the oil is removed and properly stored and the mat can be re-used several times. The used oil tank is drained by an outside contractor on a weekly basis. All used antifreeze is collected in a large tank that is kept under a roof and it is drained by an outside contractor on an as needed basis.

#### **(MCM 4) Pollution Prevention and Good Housekeeping for Municipal Operations**

##### **IV) PESTICIDE, HERBICIDE AND FERTILIZER APPLICATION**

The Parks and Recreation Department maintains approximately 2,329.6 acres of land including parkland, public grounds, medians and public rights-of-way during the permit year. Included in this number is weed and vegetation control on 67.87 acres of drainage channels. All of these areas are maintained using both in-house personnel and private contractors.

The comprehensive *Parks Turf Maintenance Program* was developed to manage pesticide, herbicide and fertilizer requirements and use by city staff and contractors. Only nitrogen based fertilizer is used north of SH 183 because of the high sulfur content in the soils in north Irving. Insecticides, herbicides and fungicides are used on various park properties to control specific problems. In accordance with technical contract specifications, various contractors applied chemicals for control of weeds, turf disease and insect pests in problem areas only. Specifications for all chemical application contracts require fully-trained and certified applicators and all chemicals are applied in accordance with state and federal requirements. The coverage in the *Chemical Weed and Pest Control Contract* for parks, athletic fields and public grounds include a total of 120.55 acres providing full-season weed and fire ant control on high-profile parks and public grounds areas. The *Corridor Program* (an aggressive litter control program for high-profile primary streets, medians and rights-of-way) also includes application of herbicides on selected areas to improve appearance and control the growth of obnoxious weeds.

The Parks and Recreation Department will have at least fifteen maintenance employees who are state licensed and completed test requirements for pesticide applicator certification. The department provides training to achieve pesticide applicator certification for key operational personnel to greatly expand the scope of existing pesticide application contracts.

**DCFCD1** has two people working approximately forty hours per week doing maintenance. Vegetation within the district was controlled primarily by routine mowing and cutting.

**DCURD** maintains 348.85 surface acres of lakes and waterways using an established, comprehensive lake management program which addresses aquatic weed and algae control and aquatic animal damage control. The district uses integrated pest management practices utilizing algaecides, herbicides, non-pesticide dyes, mechanical control and cultural control measures. District personnel only uses products that do not require a permit to apply and carry no restrictions for application.

The District remains a Level II Operator according to TCEQ Guidelines, has completed the Self Certification Form for Level II under the TPDES Pesticide General Permit TXG870000 and maintains that form on-site per TCEQ requirements.

**IFCD1** regularly mows and trims vegetation on all properties to control weeds and encourage vegetative growth. All weedy vegetation is removed via weed eating and mowing.

**IFCD3** regularly mows all properties to control weeds and encourage desirable vegetative growth during the reporting year mowing district levees and surrounding areas.

**(MCM 4) Pollution Prevention and Good Housekeeping for Municipal Operations**

**V) LIST OF MUNICIPAL FACILITIES**

<b>City of Irving Facilities</b>		
<b>Facility</b>	<b>Address</b>	<b>Number of Structures</b>
Animal Shelter	4140 Valley View Lane	1
Auto Pound at VVMC	401 Valley View Lane	1
Bear Creek Heritage Museum	3925 Jackson	3
Briery Yard	128 N. Briery Road	11
Brighter Tomorrows	226 Falcon	1
Central Library	801 W. Irving Blvd.	1
Cimarron Park Recreation Center	201 Red River Trail	1
City Hall Complex	800 W. Irving Blvd.	3

Facility	Address	Number of Structures
Civic Center	825 W. Irving Blvd.	1
Community House	135 S. Jefferson	1
Communications Shelters		5
Criminal Justice Center	305 N. O'Connor	1
Family Advocacy Center	600 W. Pioneer	1
Fire Museum	2nd & Jefferson	1
Fire Prevention Building	1230 Glenwick	1
Fire Station #1	925 Chamberlain	1
Fire Station #2	1306 N. Story Road	1
Fire Station #3	1825 E. Grauwylar	1
Fire Station #4	3303 N. MacArthur	1
Fire Station #5	2925 W. Shady Grove	1
Fire Station #6	2801 Esters Road	1
Fire Station #7	3303 W. Walnut Hill	1
Fire Station #8	650 E. Las Colinas	1
Fire Station #9	8101 Jetstar Drive	1
Fire Station #10	415 Cimarron Trail	1
Fire Station #11	6200 Love Drive	1
Old Fire Station #6	2801 Esters Road	1
Fritz Maintenance Office	312 East Vilbig	1
Garden Arts Center	906 S. Senter Road	1
Hackberry Pump Station	8501 Hackberry Road	1
Heritage House	303 S. O'Connor	1
Heritage Park	217 South Main	3
Heritage Senior Center	200 S. Jefferson	1
Human Services Bldg.	440 S. Nursery	1
ICTN	233 S. Rogers	1
Irving Arts Center	3333 N. MacArthur	1
Irving Convention Center	550 W. Lax Colinas Blvd.	1
Irving Soccer Complex	3585 World Cup Way	1
Jaycee Art Center	200 W. Airport Frwy.	1



Facility	Address	Number of Structures
Landfill	220 W. Hunter Ferrell	2
Las Colinas Service Center	5964 N. O'Connor	5
Lee Recreation Center	3000 Pamela	1
Lively Community Center	909 O'Connor	1
MacArthur Pump Station	1900 N. MacArthur	1
Museum	313 Irving Blvd.	1
Mustang Park Recreation Center	2223 Kinwest Pkwy.	1
North Police Station	5992 Riverside Dr.	1
North Service Center	5826 Valley View Lane	1
Northwest Park Recreation Center	2800 Cheyenne 75062	1
Paine House - Museum	2515 W. Fifth Street	1
Police & Fire Training Academy	2603 Esters Road 75062	1
Senter East Bldg.	228 Chamberlain 75060	1
Senter Park Recreation Center	909 S. Senter (901) 75060	1
Trinity View Park Maintenance Facility	2221 SH 356 75060	2
Valley Ranch Library	401 Cimarron	1
Valley Ranch Library (former)	9940 W. Valley Ranch Pkwy	1
Valley View Municipal Center	333 Valley View Lane	5
Warehouse	3000 Rock Island	1
West Irving Aquatic Center	3701 Conflans	1
West Irving Library	4444 W. Rochelle Road	1
West Park Recreation Center	530 Davis	1
<b>Total</b>		<b>91</b>

#### **MINIMUM CONTROL MEASURE 5: Industrial and High Risk Runoff**

##### **(MCM 5) Industrial and High Risk Runoff**

##### **I) PRIORITIES AND PROCEDURES FOR INSPECTION AND IMPLEMENTATION OF CONTROL MEASURES**

The City of Irving has no wastewater treatment facilities, transfer stations, incinerators or hazardous treatment facilities.

Hunter Ferrell Land Fill the city's landfill is well maintained and floatables are covered with soil as a daily cover throughout the daily operations and very little is blown outside the landfill operations. Windblown litter is picked up in the area on a regular or as needed basis.

**(MCM 5) Industrial and High Risk Runoff**

**II) INDUSTRIAL AND HIGH RISK MONITORING PROGRAM**

- A) The City of Irving performs annual storm water inspections for all known industries in the city that are permitted under the *Industrial Pretreatment Program*. Storm water inspections are performed during the reporting year by Environmental Compliance staff in conjunction with the city's Industrial Pretreatment Program.
- B) The City of Irving inspects five industrial and/or high-risk occupancies selected at random from approximately 500 industries in the city that report SIC codes impacted by storm water regulations per permit year.

**MINIMUM CONTROL MEASURE 6: Construction Site Storm Water Runoff**

**(MCM 6) Construction Site Storm Water Runoff**

**I) CONSTRUCTION SITE RUNOFF ORDINANCE**

- A) The City of Irving Code of Civil and Criminal Ordinances Chapter 41, Section 41-62.1 requires an earthwork permit for any grading of property including sites smaller than 1 acre and all larger sites inside Irving, requiring erosion control of runoff during construction and until re-vegetation is completed.
- B) The city adopted the enhanced development/redevelopment guide, iSWM Design Manual for Site Development, spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Stormwater Management and Drainage Ordinance Section 35. The North Central Texas Council of Governments (NCTCOG) Public Works Council designated the City of Irving's status as a Certified Silver Integrated Stormwater Management (iSWM) Community on June 27, 2018.

**(MCM 6) Construction Site Storm Water Runoff**

**II) REQUIREMENTS FOR STRUCTURAL AND NON-STRUCTURAL BEST MANAGEMENT PRACTICES (BMP)**

The City of Irving requires erosion control measures on all construction sites to keep mud from the sites reaching City Streets or the MS4 and natural waterways. The City of Irving maintains a copy of the USEPA Baseline Construction General Permit Checklist and requires contractors to follow these requirements. The City also has a copy of the *North Central Texas Council of Governments Construction Activity Best Management Practices Manual* and a variety of training videos for reference purposes for employees, developers and builders.

The city requires all site operators to address the control of site waste, litter (floatables), building materials, concrete truck washout water, chemicals and sanitary waste.

The City of Irving receives complaints concerning mud in the street or unusually muddy water in the streams from the public through the CIP department complaint line. If the construction project is a CIP project the call is forwarded to the onsite inspector or the CIP erosion control inspector for immediate clean up. If the project is private, the call is forwarded to the CIP inspector in charge of private sites for immediate clean up.

#### **(MCM 6) Construction Site Storm Water Runoff**

### **III) INSPECTION OF CONSTRUCTION SITES AND ENFORCEMENT REQUIREMENTS**

The City of Irving issues *Warning Notices* and *Stop Work Order* letters to construction projects not using and maintaining appropriate structural and/or nonstructural pollutant reduction measures as determined by comparison to site construction plans submitted to the City of Irving, the *USEPA Baseline Construction General Permit Checklist*, or physical evidence that the installed measures are ineffective (i.e., mud in the public right-of-way, trash, ect.).

The **Capital Improvement Program/Engineering Division** performs inspections on private development projects during the permit reporting year and issues verbal warnings, stepping up to written *Warning* notices and *Stop Work Orders* construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan.

In addition, *SWPPP* inspections are conducted on capital improvement projects. Deficiencies are documented and resolved under the direction of the engineering construction inspector with oversight of the project with the deficiency. Written *Warning* notices and *Stop Work Orders* are issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their storm water pollution prevention plan. The city requires all earth-moving operations to obtain a grading permit if they had not applied for a building permit prior to the commencement of excavation operations.

#### **(MCM 6) Construction Site Storm Water Runoff**

### **IV) EDUCATION AND TRAINING FOR CONSTRUCTION SITE OPERATORS**

To inform and remind the development/building community of stormwater requirements for construction activity, the Planning & Inspections Department provides erosion control regulations and signage to all building permit applicants as well as copies of sample designs for erosion and sedimentation control plans for smaller construction sites. This signage, detailing their erosion control responsibilities, is required to be posted on-site at all times.

The city maintains a library of development assistance tools for employees, developers and builders in the Public Works/Office of Environmental Stewardship. These tools include a

copy of the *North Central Texas Council of Governments Construction Activity Best Management Practices Manual* and various training videos. To supplement the library with the freshest training and latest information available at an affordable cost, the city focuses on identifying free or low-cost online webinars and webcasts and live, local presentations regarding environmental issues affecting city operations including development and re-development topics.

The city also trains Capital Improvement Program employees in erosion control. The city regularly sends engineers to erosion and sedimentation control training offered by the North Central Texas Council of Governments. City staff also take advantage of other opportunities such as webinars and presentations at professional organization meetings to advance their knowledge and update their skills in a variety of related topics.

#### **(MCM 6) Construction Site Storm Water Runoff**

##### **V) NOTIFICATION OF REQUIREMENTS TO CONSTRUCTION SITE OPERATORS**

The City of Irving requires developers and engineers submitting development or building plans that may potentially fall within the scope of the *TPDES Construction General Permit* (CGP), TXR150000, to provide a copy of their TPDES "Notice of Intent," Stormwater Pollution Prevention Plan (SW3P) and, subsequent, TPDES "Notice of Termination" to the Capital Improvement Program/Engineering Department. The city requires copies of *Construction Site Notices* or *Notices of Intent* for all subdivisions over an acre prior to the issuance of three-way contracts to build publicly maintained streets, water, sanitary sewer and storm sewer and other drainage systems.

The city receives construction plans for privately developed projects (with city-maintained infrastructure) that requires the submittal of a *Notice of Intent* to the state during the reporting year. The city also receives copies of *Construction Site Notices* for smaller private developments during this time frame. The city prepares plans for capital improvement project (CIP) that requires the submittal of a *Notice of Intent* to the state and for *Construction Site Notices* for smaller capital improvement projects during the reporting year.

#### **(MCM 6) Construction Site Storm Water Runoff**

##### **VI) LIST OF CONSTRUCTION SITES**

The City of Irving of Irving maintains a list of construction sites with that discharge into the MS4 and have been issued either a NPDES or TPDES permit. This list will be attached in Appendix G.

#### **(MCM 6) Construction Site Storm Water Runoff**

##### **VII) STATUS OF COMPLIANCE WITH NEW REGULATIONS**

The City of Irving reviews and requires grading plans for all Construction sites including lots 1 acre in size.

## MINIMUM CONTROL MEASURE 7: Public Education, Outreach, Involvement and Participation

### (MCM 7) Public Education, Outreach, Involvement and Participation

#### I) PUBLIC EDUCATION AND OUTREACH

##### Keep Irving Beautiful

During the reporting year, *Keep Irving Beautiful* keeps the public informed through the use of several print media outlets, as well as local television programs and online papers. In addition, through participation in community events and presentations to organizations, *KIB* is able to distribute literature on an ongoing basis. Following are some of the publications utilized:

##### Irving Rambler

The *Irving Rambler* is a local community newspaper, available by subscription or online and sold at numerous outlets throughout the city.

##### Dallas Morning News Neighbors Go

*Neighbors Go* is a section of the *Dallas Morning News* that focuses on the community you live in.

##### Bubblelife

*Bubblelife* is an online publication dedicated to getting the word out about Irving

##### Buckaroo

*Buckaroo* is another online publication dedicated to getting the word out about Irving

##### City of Irving Operations Update Report

This report is provided to City Council, city employees, list serve subscribers and residents through the *All About Irving* email list on a biweekly basis. This report delivers department updates on a variety of topics as they relate to the city's *Strategic Plan*.

##### The city Spectrum

The city *Spectrum* is a City of Irving publication which is mailed to all households and available online from the city's website

##### Irving Community Television Network (ICTN)

*ICTN* is the City of Irving Television station, which featured *KIB* in at least one programs during the reporting period.

##### Events and Presentations:

*KIB* partnered with many civic, government, faith, youth and non-profit groups through the reporting period to either present information at their events or help them make their events "green" by providing recycling supplies and volunteers to educate participants and monitor the use of recycling stations.

**All About Irving:**

City of Irving email list serv for subscribers, residents and employees about city activities and information. These included:

**Keep Irving Beautiful Newsletter**

Monthly online newsletter is posted on the *KIB* page of the City of Irving website and *Rock the Green* website.

**Irving Community Television Network****Public Service Announcements, Broadcast and Cable Media**

The city informs residents and businesses of storm water issues through municipal access cable television and the use of its website's "Video on Demand" feature. Public service announcements (PSAs) that highlight residential and commercial best management practices as well as regular programming on various storm water topics are broadcast throughout the day on 3 cable channels and are included in the menu of "on demand" video available to the public for viewing 24 hours a day, seven days a week by computer. The inventory of PSAs and storm water related programs is included in the annual report

**Proper management and disposal of used oil and household hazardous waste**

ICTN shows Public announcements were shown in the data in section A). The Solid Waste Services Department provided residential curbside pickup of used motor oil, antifreeze, transmission fluid and a variety of household hazardous wastes via a *Special Waste Collection* service. Residents were asked to set their materials for special collection near their regular pickup location and notify the Solid Waste Services office to dispatch the crew to their location. Refuse crews also notified the office when they observed suitable materials set out for collection.

City participation in the *Dallas Area Household Hazardous Waste Network* provides all Irving residents with a convenient, efficient and environmentally-friendly way to dispose of household hazardous wastes such as pesticides, herbicides, fertilizers, auto fluids, batteries, light bulbs, paint, pool chemicals and other household chemicals.

**Proper use application and disposal of pesticides**

Irving residents and business owners are presented with a variety of opportunities to learn about the proper use, application and disposal of pesticides, herbicides and fertilizers through year-round course offerings, presentations at festivals and community events and participation in the *Dallas Area Household Hazardous Waste Network*.

**Public Service Announcements**

Throughout the reporting year, the following public service announcements which include a message educating the public on the proper use, application and disposal of pesticides, herbicides and fertilizers are shown on the Irving Community Television Network, Time-Warner cable and various local broadcast television stations.

- Know Where It All Goes – Fertilizer
- *Texas SmartScape™* – English
- *Texas SmartScape™* – Spanish
- *Household Hazardous Waste Collection*

**(MCM 7) Public Education, Outreach, Involvement and Participation**

**II) PUBLIC INVOLVEMENT AND PARTICIPATION**

**Public Reporting of Illicit Discharges or Improper Disposal of Materials, Including Floatables into the MS4** – The city supports, participates in and promotes the *North Central Texas Council of Governments' Illegal Dumping Hotline & Public Awareness program*. This program provides a 24-hour a day telephone hotline (1-888-335-DUMP) to facilitate public reporting of illicit discharges or improper disposal of materials plus brochures and a variety of promotional items to distribute to the public.

Additionally, the Parks and Recreation Department maintains a 24-hour reporting "hotline" phone number (972-721-5487) to facilitate reporting of litter in public rights-of-ways and other areas.

The Communications Department maintains a Customer Questions and Concerns online form <http://cityofirving.org/web-forms/customerqc/i.asp> for residents, visitors and businesses to use to report problems including litter and illegal dumping.

Employee reports of litter and dumping are encouraged and collected through a 24-hour telephone hotline (972-721-7777).

**Public Involvement in the Removal of Floatables from the Floodplain and Right Of Ways**

The City of Irving, as an affiliate of *Keep Texas Beautiful* (under the name of *Keep Irving Beautiful*), participates in well-publicized, well-attended activities throughout the year as well as those promoted nationally by *Keep America Beautiful*, and statewide by *Keep Texas Beautiful* and the *North Central Texas Council of Governments*.

**Key Keep Irving Beautiful (KIB) Activities**

**Trinity Trash Bash:**

The *Trash Bash* is *Keep Irving Beautiful's* contribution to the *Texas Waterway Cleanup Program*, sponsored by *Keep Texas Beautiful*. Approximately 20 communities in the Trinity River watershed participate in events during September and October, with the primary goal of keeping litter out of our waterways

**Adopt-A-Spot Program (year-round)**

*Adopt-A-Spot* is the longest running element of *KIB's* present program. This program urges individuals or groups to "adopt-a-spot" and to keep it litter-free for a minimum of one year, and report their activities to *KIB* on a monthly basis. Irving currently has 73 active locations. The adopted spots are sponsored by individuals, families, companies and organizations in every economic and geographic sector of Irving. They are very popular with youth groups, schools, churches, neighborhood associations and corporate service groups.



### **Green Events (year-round)**

Based on a *Keep Texas Beautiful* initiative, the *Green Events Program* involves partnerships with city departments, schools, neighborhood associations, faith groups, large and small businesses, and all types of organizations in the community to help make their events more environmentally-friendly. *KIB* supplies recycling containers and signs, banners and educational materials, and often provides volunteers for these events.

## **(MCM 7) Public Education, Outreach, Involvement and Participation**

### **II) EVALUATION OF THE EFFECTIVENESS OF THIS MCM**

Evaluation of this new minimum control measure will be done in future reports.

## **MINIMUM CONTROL MEASURE 8: Monitoring Evaluation and Reporting**

### **(MCM 8) Monitoring Evaluation and Reporting**

#### **I) DRY WEATHER SCREENING PROGRAM**

The City of Irving performs an average of 120 dry weather field screenings per year. Any flows found will be investigated to find the sources of flows and investigated using expert knowledge and GIS maps of the MS4 and any violations corrected. Data collected will be included in *Appendix I*.

Samples of flows are collected and analyzed for the following parameters:

Parameter	Reporting Units
Ammonia	parts per million (ppm)
Chlorine	parts per million (ppm)
Copper, total	parts per million (ppm)
Detergent	parts per million (ppm)
pH	Standard Units (S.U.)
Phenols	parts per million (ppm)

### **(MCM 8) Monitoring Evaluation and Reporting**

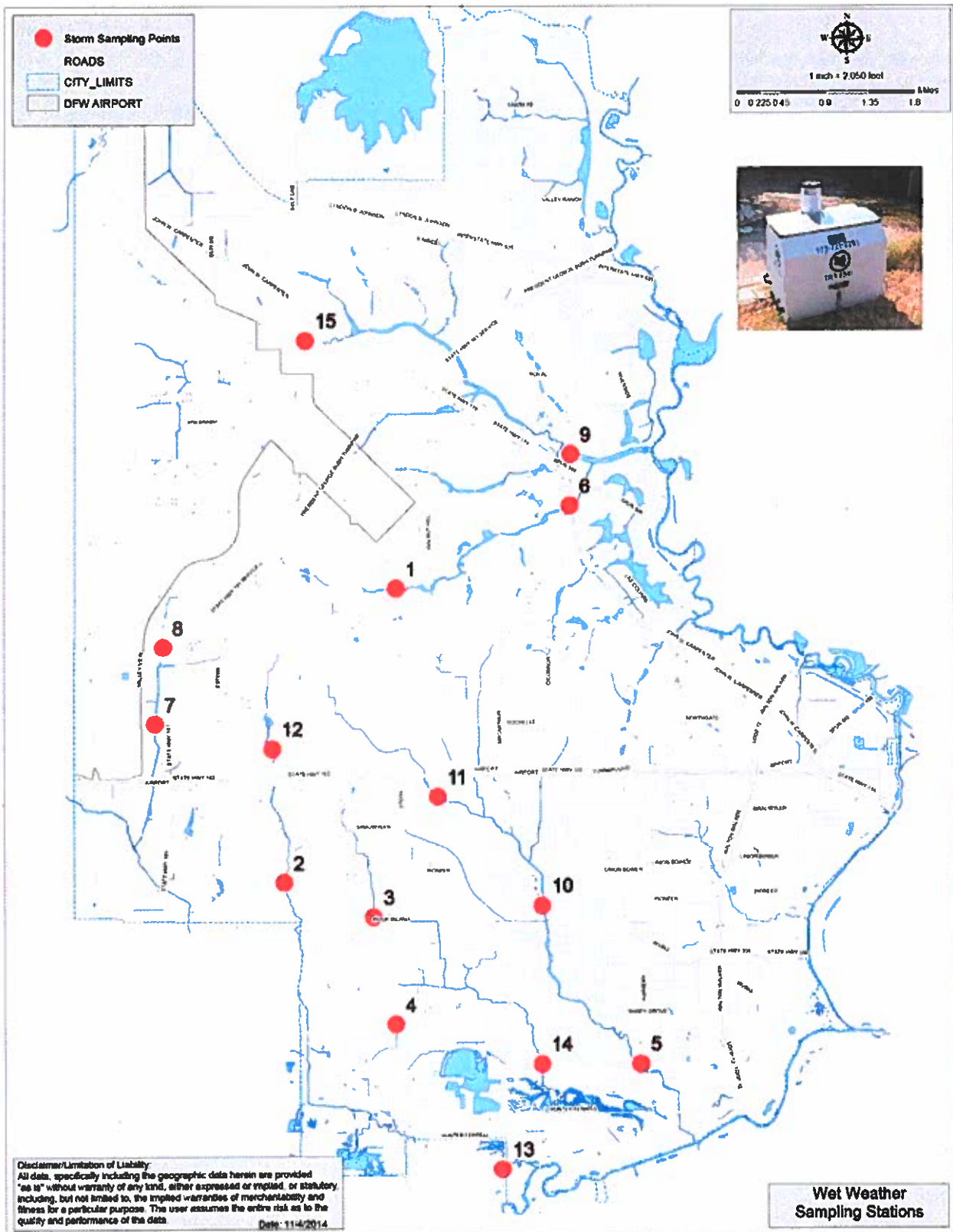
#### **II) WET WEATHER SCREENING PROGRAM**

The City of Irving monitors 8 storm events per permit year. The City of Irving, using mobile wet weather samplers, will monitor storm events during the permit reporting period. The City will screen sites on the various receiving waters: Shown on the map below. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site.

The following chemical analyses will be performed on grab samples: hardness, pH, temperature, DO, DO%, conductivity, grease & oil, e. coliform and fecal streptococcus. The following testing will be performed on composite samples: BOD, COD,

Nitrite+Nitrate-Nitrogen, TKN, Phosphate (total), Ortho-phosphate, TDS, TSS, Cadmium (total), Copper (total), Chromium (total), Nickel (total), Lead (total), Zinc (total), Diazinon, Ammonia Nitrogen and Arsenic.

A table giving the dates and the locations where the samples were collected. Will be included.



The samples are analyzed for the following parameters:

Sampling Parameters Employed	
Parameter	Reporting Units
Ammonia Nitrogen, total (calculated)	mg/L (milligrams per liter)
Arsenic	mg/L (milligrams per liter)
BOD - 5 day	mg/L (milligrams per liter)
Cadmium, total	mg/L (milligrams per liter)
Chromium, total	mg/L (milligrams per liter)
COD	mg/L (milligrams per liter)
Conductivity	µS/cm (microsiemens per centimeter)
Copper, total	mg/L (milligrams per liter)
Diazinon	µg/L (microgram per liter)
Dissolved Oxygen	mg/L (milligrams per liter)
Dissolved Oxygen Percent	% (percent)
E. Coli, MPN Q-tray	MPN/100mL (Most Probable Number per 100 milliliters)
Fecal Streptococcus	Col/100mL (colonies per 100 milliliters)
Grease & Oil	mg/L (milligrams per liter)
Hardness	mg/L (milligrams per liter)
Lead, total	mg/L (milligrams per liter)
Nickel, total	mg/L (milligrams per liter)
Nitrate+Nitrite-Nitrogen	mg/L (milligrams per liter)
Ortho-Phosphate	mg/L (milligrams per liter)
pH	S.U. (standard units)
Phosphate, total	mg/L (milligrams per liter)
TDS	mg/L (milligrams per liter)
Temperature	°C (degree Celsius)
TKN	mg/L (milligrams per liter)
TSS	mg/L (milligrams per liter)
Zinc, total	mg/L (milligrams per liter)

The City of Irving is continuing the accumulation of wet weather screening data. Data collected during this permit period will be included in *Appendix I of the report*.

#### (MCM 8) Monitoring Evaluation and Reporting

##### III) INDUSTRIAL AND HIGH RISK RUNOFF MONITORING PROGRAM

###### City of Irving Landfill

The state renewed the Multi-Sector General Permit in August 2011, and the city received notice that it had until November 14, 2011, to file an NOI under this permit. The city submitted the NOI and e-payment on September 22, 2011. The city was notified on December 28, 2011 that our application for authorization under the general permit had been received. The TPDES multi-sector storm water general permit number for the site is TXR05M662.

**(MCM 8) Monitoring Evaluation and Reporting**

**IV) WET WEATHER CHARACTERIZATION PROGRAM**

**North Central Texas Regional Monitoring Program**

The City of Irving participates in a regional monitoring program coordinated through the North Central Texas Council of Governments.

**(MCM 8) Monitoring Evaluation and Reporting**

**V) FLOATABLES MONITORING**

The floatables monitoring program is described in **MCM1 III) Floatables**. A description of the floatable trash that is removed at the source (i.e. street ROW) before it reaches the MS4 and removal of floatables in the streams and creeks after they enter the MS4 is detailed in the annual report.

**Implementation Plan for the Eight Total Maximum Daily Loads for Bacteria in the City of Irving (I Plan)**

The City is participating in the “**Implementation Plan for Seventeen Total Maximum Daily Loads (TMDL) for Bacteria in the Greater Trinity River Region (Upper Trinity River I Plan)**” prepared by the North Central Texas Council of Governments (NCTCOG) in partnership with several Cities as well as Public and Private Partners. This information will be discussed in “**Appendix B: Progress Towards Reducing 303(D) Pollutants of Concern**” in every Annual Report.

# ATTACHMENT 4





#### Attachment 4 -

The SWMP has been meeting the conditions required by the TPDES permit through all minimum control measures 1-8. Various departments and divisions within the City of Irving collaborate to fulfill these requirements. Many of these MCMs are being taken care of under the guidance and organizational structure of the Capital Improvement Program, Municipal Drainage Utility (MDU). There have been large efforts within the city structure to encapsulate these objectives under one division over the past few years. There are some programs outside of the MDU like sanitary sewer initiatives that are still being taken care of by different departments, though everything that is directly stormwater related falls under the MDU. The co-permittees with the City of Irving are specifically flood control / flood management entities and fulfill their responsibilities and obligations to those MCMs that apply to their operational limitations. Specifics about how these programs are being met can be found in the annual reports.



*[The page contains extremely faint, illegible text that appears to be bleed-through from the reverse side. The text is scattered across the page and is not readable.]*



# 2023

## 4th Annual TPDES Report

October 1, 2022 – September 30, 2023

TPDES Permit No. WQ0004691000

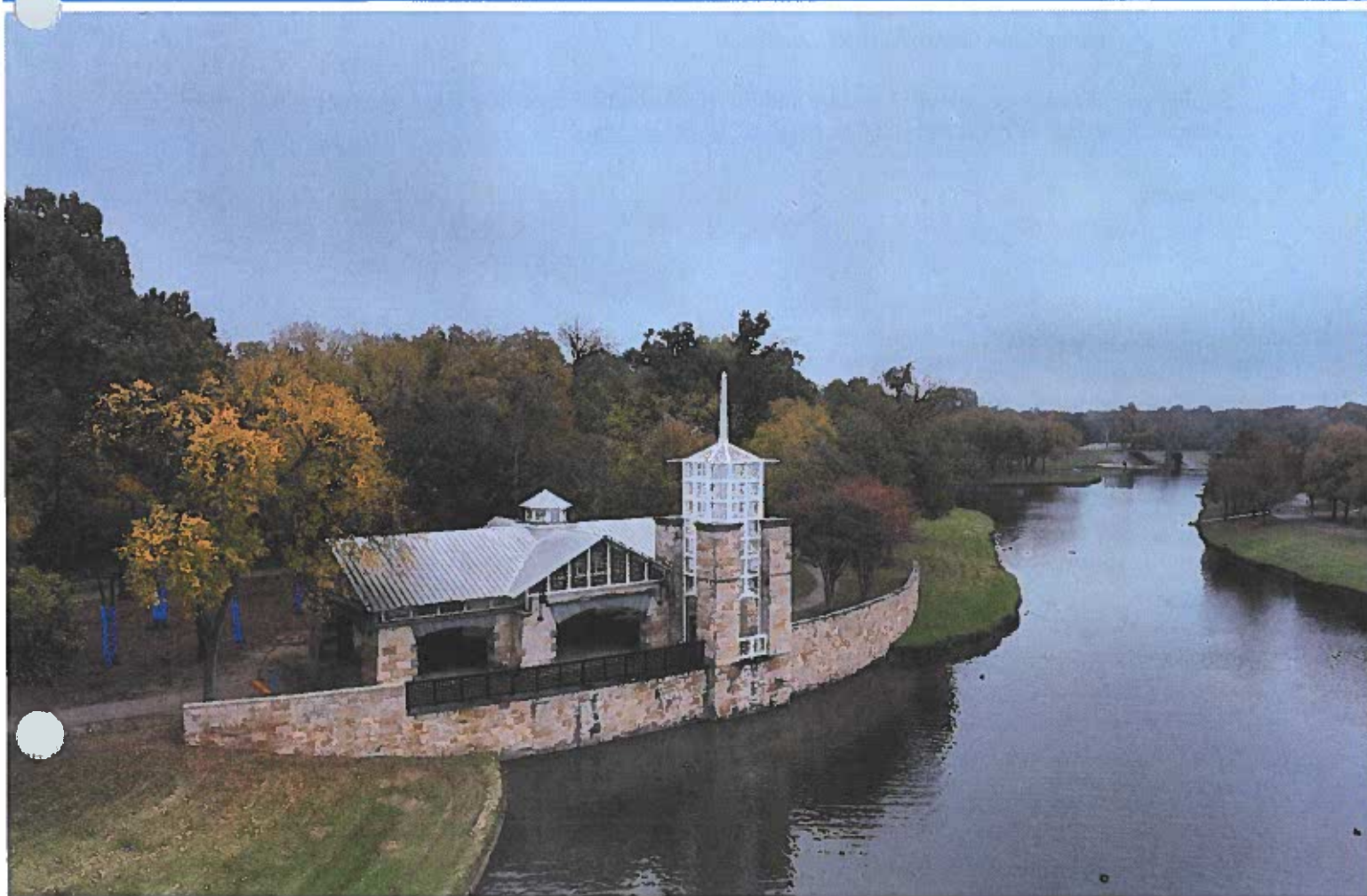
Co-Permittees:

Dallas County Flood Control District

Dallas County Utility and Reclamation District

Irving Flood Control District, Section I

Irving Flood Control District, Section III





December 31, 2023

Ms. Rebecca L. Villalba, Stormwater and Pretreatment Team Leader  
Texas Commission on Environmental Quality  
Wastewater Permitting Section – Storm Water and Pretreatment  
Mail Code 148  
P.O. Box 13087  
Austin, TX 78711-3087

RE: Annual Report for the TPDES – MS4 Permit No. WQ0004691000  
Covering October 1, 2022 to September 30, 2023

Dear Ms. Villalba:

Enclosed is the submittal of the annual report for the Texas Pollutant Discharge Elimination System MS4 Permit No. WQ0004691000 on behalf of the City of Irving, Texas, and the following co-permittees:

- Dallas County Flood Control District No. 1
- Dallas County Utility and Reclamation District
- Irving Flood Control District, Section I
- Irving Flood Control District, Section III

Should you have any questions or require additional information regarding this annual submittal, please contact Cody Cash at (972) 721-4760 or [ccash@cityofirving.org](mailto:ccash@cityofirving.org)

Sincerely,

Chris Hillman, City Manager

Enclosure

pc: Orlando Sanchez, Assistant City Manager  
Pat Lamers, Capital Improvement Program Director  
Walter Thomas, City Engineer  
Brent Redd, MDU Programs Administrator

## SIGNATURE PAGE

### CITY OF IRVING TEXAS

I, Chris Hillman, City Manager, certify under penalty of law that this document and all attachments (Pertaining to the City of Irving) 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
Chris Hillman, City Manager

12-22-23  
Date

## SIGNATURE PAGE

### DALLAS COUNTY FLOOD CONTROL DISTRICT NO. 1

I, Robert Nelson, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert Nelson  
Signature

11-28-23  
Date

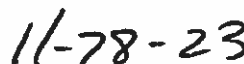
## SIGNATURE PAGE

### DALLAS COUNTY UTILITY & RECLAMATION DISTRICT

I, Dallas Burke, General Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

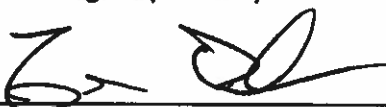


Dallas Burke, General Manager



Date

I, Tim Benefiel, Operations Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Tim Benefiel, Operations Manager



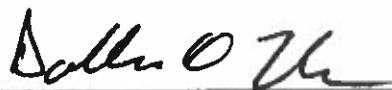
Date



## SIGNATURE PAGE

### IRVING FLOOD CONTROL DISTRICT, SECTION I

I, Dallas Burke, General Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Dallas Burke, General Manager

11-28-23

Date

I, Tim Benefiel, Operations Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Tim Benefiel, Operations Manager

11-28-23

Date

## SIGNATURE PAGE

### IRVING FLOOD CONTROL DISTRICT, SECTION III

I, Dallas Burke, General Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
\_\_\_\_\_  
Dallas Burke, General Manager

11-28-23  
Date

I, Tim Benefiel, Operations Manager, 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 penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

  
\_\_\_\_\_  
Tim Benefiel, Operations Manager

11-28-23  
Date

## **Table of Contents**

<b>ACRONYMS.....</b>	<b>5</b>
<b>STATUS OF IMPLEMENTING THE STORM WATER MANAGEMENT PROGRAM (SWMP).....</b>	<b>6</b>
<b>MINIMUM CONTROL MEASURE (MCM) 1: MAINTENANCE ACTIVITIES .....</b>	<b>6</b>
<b>I.    STRUCTURAL CONTROLS .....</b>	<b>6</b>
<b>II.   FLOATABLES.....</b>	<b>8</b>
<b>III.  ROADWAYS.....</b>	<b>11</b>
<b>MINIMUM CONTROL MEASURE (MCM) 2: POST CONSTRUCTION STORM WATER CONTROL MEASURES.....</b>	<b>11</b>
<b>I.    COMPREHENSIVE MASTER PLANNING .....</b>	<b>11</b>
<b>II.   FLOOD CONTROL PROJECTS .....</b>	<b>12</b>
<b>MINIMUM CONTROL MEASURE (MCM) 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION .....</b>	<b>15</b>
<b>I.    PROHIBITED DISCHARGES .....</b>	<b>15</b>
<b>II.   ALLOWABLE DISCHARGES .....</b>	<b>16</b>
<b>III.  FIRE FIGHTING DISCHARGES WITH SIGNIFICANT SOURCES OF POLLUTION.....</b>	<b>16</b>
<b>IV.   DETECTION AND ELIMINATION OF ILLICIT DISCHARGES.....</b>	<b>16</b>
<b>V.    OVERFLOW AND INFILTRATION .....</b>	<b>18</b>
<b>VI.   HOUSEHOLD HAZARDOUS WASTE .....</b>	<b>23</b>
<b>VII.  MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS .....</b>	<b>24</b>
<b>VIII. NPDES AND TPDES PERMITTEE LIST .....</b>	<b>25</b>
<b>IX.   MS4 MAP .....</b>	<b>26</b>
<b>X.    SPILL PREVENTION AND RESPONSE.....</b>	<b>26</b>
<b>XI.  LIST OF PRIORITY AREAS TO INSPECT FOR ILLICIT DISCHARGES.....</b>	<b>28</b>
<b>MINIMUM CONTROL MEASURE (MCM) 4: POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS.....</b>	<b>29</b>

I. POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM .....	29
II. STRUCTURAL CONTROL MAINTENANCE MEASURES.....	29
III. WASTE HANDLING .....	30
IV. PESTICIDE, HERBICIDE AND FERTILIZER APPLICATION .....	30
V. LIST OF MUNICIPAL FACILITIES.....	31
<b>MINIMUM CONTROL MEASURE (MCM) 5: INDUSTRIAL AND HIGH-RISK RUNOFF .....</b>	<b>31</b>
I. PRIORITIES AND PROCEDURES FOR INSPECTION AND IMPLEMENTATION OF CONTROL MEASURES.....	31
II. INDUSTRIAL AND HIGH-RISK MONITORING PROGRAM .....	31
<b>MINIMUM CONTROL MEASURE (MCM) 6: CONSTRUCTION SITE STORM WATER RUNOFF .....</b>	<b>32</b>
I. CONSTRUCTION SITE RUNOFF ORDINANCE .....	33
II. REQUIREMENTS FOR STRUCTURAL AND NONSTRUCTURAL BEST MANAGEMENT PRACTICES.....	33
III. INSPECTION OF CONSTRUCTION SITES AND ENFORCEMENT REQUIREMENTS .....	33
IV. EDUCATION AND TRAINING FOR CONSTRUCTION SITE OPERATORS .....	34
V. NOTIFICATION OF REQUIREMENTS TO CONSTRUCTION SITE OPERATORS.....	34
VI. LIST OF CONSTRUCTION SITES.....	34
VII. STATUS OF COMPLIANCE WITH NEW REGULATIONS.....	35
<b>MINIMUM CONTROL MEASURE (MCM) 7: PUBLIC EDUCATION, OUTREACH, INVOLVMENT AND PARTICIPATION.....</b>	<b>35</b>
I. PUBLIC EDUCATION AND OUTREACH .....	35
II. PUBLIC INVOLVEMENT AND PARTICIPATION.....	40
III. EVALUATION OF THE EFFECTIVENESS OF THIS MCM .....	41
<b>MINIMUM CONTROL MEASURE (MCM) 8: MONITORING EVALUATION AND REPORTING .....</b>	<b>41</b>
I. DRY WEATHER SCREENING PROGRAM.....	41
II. WET WEATHER SCREENING PROGRAM .....	42
III. INDUSTRIAL AND HIGH-RISK RUNOFF MONITORING PROGRAM.....	44
IV. WET WEATHER CHARACTERIZATION PROGRAM .....	46

<b>V. FLOATABLES MONITORING .....</b>	<b>46</b>
<b>APPENDICES .....</b>	<b>47</b>
<b>APPENDIX A. ....</b>	<b>47</b>
<b>APPENDIX B.....</b>	<b>49</b>
<b>APPENDIX C.....</b>	<b>54</b>
<b>APPENDIX D .....</b>	<b>64</b>
<b>APPENDIX E.....</b>	<b>65</b>
<b>APPENDIX F.....</b>	<b>70</b>
<b>APPENDIX G .....</b>	<b>73</b>
<b>APPENDIX H .....</b>	<b>76</b>
<b>APPENDIX I.....</b>	<b>78</b>
<b>APPENDIX J .....</b>	<b>79</b>
<b>APPENDIX K.....</b>	<b>87</b>
<b>APPENDIX L.....</b>	<b>95</b>
<b>APPENDIX M .....</b>	<b>97</b>

**City of Irving, TX**

**TPDES PERMIT NO. WQ0004691000  
DECEMBER 31, 2023**

**FOURTH ANNUAL  
STORMWATER REPORT**

**October 1, 2022 – September 30, 2023**

**This report was prepared for and sent to:**  
Texas Commission on Environmental Quality  
Storm Water and Pretreatment Team; MC -148  
P.O. Box 13087  
Austin, Texas 78711-3087

## Acronyms

BMP – Best Management Practice  
CAI – Community Appearance index  
CGP – Construction General Permit  
CIP – Capital Improvement Program  
DCFCD1 – Dallas County Flood Control District 1  
DCURD – Dallas County Utility and Reclamation District  
EPA – Environmental Protection Agency  
FCD – Flood Control District  
FEMA – Federal Emergency Management Association  
FOG – Fats, Oils and Grease  
FROG – Fats, Rags, Oils and Grease  
GIS – Geographic Information Systems  
HHW – Household Hazardous Waste  
IFCD1 – Irving Flood Control District 1  
IFCD3 – Irving Flood Control District 3  
ICTN – Irving Community Television Network  
IDDE – Illicit Discharge Detection and Elimination  
iSWM – integrated Stormwater Management  
KAB – Keep America Beautiful  
KIB – Keep Irving Beautiful  
LEPC – Local Emergency Planning Committee  
LI – Litter index  
MCM – Minimum Control Measure  
MS4 – Municipal Separate Storm Sewer System  
NCTCOG – North Central Texas Council of Governments  
NOI – Notice of Intent  
NOT – Notice of Termination  
NOV – Notice of Violation  
NPDES – National Pollutant Discharge Elimination System  
PSA – Public Service Announcement  
SCADA – Supervisory Control and Data Acquisition  
SSES – Sanitary Sewer Evaluation Survey  
SSO – Sanitary Sewer Overflow  
SWMP – Storm Water Management Program  
SWPPP – Storm Water Pollution Prevention Plan  
TCEQ – Texas Commission on Environmental Quality  
TxDOT – Texas Department of Transportation  
TFMA – Texas Floodplain Management Association  
TMDL – Total Maximum Daily Load  
TPDES – Texas Pollutant Discharge Elimination System  
USACE – United States Army Corps of Engineers



## **Status of Implementing the Storm Water Management Program (SWMP)**

Texas Pollution Discharge Elimination System (TPDES) Municipal Separate Storm Sewer System (MS4) permit (WQ0004691000) was reissued to the City of Irving and its co-permittees, Dallas County Flood Control District No. 1, Dallas County Utility and Reclamation District, Irving Flood Control District No. 1 and Irving Flood Control District No. 3, on December 10, 2019. This annual report provides a synopsis of implementation activities for the second reporting period beginning **October 1, 2022** and ending **September 30, 2023**. Each co-permittee reports implementation and/or continuation of activities as required by the TPDES MS4 permit and as outlined in their respective Storm Water Management Programs (SWMPs). **This report details activities based on the 2015 SWMP as we are still awaiting approval for the 2019-2020 updated SWMP.**

The body of this report summarizes the City of Irving's activities according to the eight sections outlined in its MS4 permit:

- **MCM 1: MS4 Maintenance Activities**
- **MCM 2: Post-Construction Storm Water Control Measures**
- **MCM 3: Illicit Discharge Detection and Elimination**
- **MCM 4: Pollution Prevention/Good Housekeeping for Municipal Operations**
- **MCM 5: Industrial and High-Risk Runoff**
- **MCM 6: Construction Site Storm Water Runoff**
- **MCM 7: Public Education and Outreach/Public Involvement and Participation**
- **MCM 8: Monitoring, Evaluation and Reporting**

### **MINIMUM CONTROL MEASURE (MCM) 1: MAINTENANCE ACTIVITIES**

#### **I. STRUCTURAL CONTROLS**

##### **City of Irving Maintenance Practices**

**Capital Improvement Program / Municipal Drainage Utility** – The objective of the maintenance crew is to find and remove any debris, litter, and deposits of silt and gravel which may pollute or impede stormwater runoff. During this reporting period, the Municipal Drainage Utility (MDU) Division cleaned channels, channel crossings, and trash collection structural controls and removed 189 tons of trash and debris. The crew also removed over 5,126 cubic yards of sediment from the MS4.

The four flood control districts along with the City of Irving listed in the permit also perform maintenance on their structural controls, sumps, and ponds. A summary of these processes from each flood control district is detailed in the following:

##### **Dallas County Flood Control District No. 1 (DCFCD1)**

A status review of Dallas County Flood Control District No. 1 is done annually. This review will be completed by representatives from the district's engineering consultants in November and December 2023. Based on the field review completed in 2022, recommendations were made for clearing brush, repairing fencing, dredging of sediment islands on Estelle Creek, monitoring or repairing erosion by the pump station, repairs to the drainage structure west of the Parking Spot on the north side of Bear Creek, fixing the gate along the perimeter fence by the trailer park and fixing erosion issues in the area, and continued monitoring of existing cracks at the pump station and associated structures. Those recommendations were evaluated by the district. Additional field reviews were performed as needed by the district's engineering consultants to address specific concerns related to drainage and structural integrity.

### **Dallas County Utility and Reclamation District (DCURD)**

During the reporting year, DCURD dedicated 2 full-time employees and one truck to remove floatables from district waterways and preventing pollutants from entering the Elm Fork of the Trinity River. The district focused on waterway debris removal following heavy rain events by assigning up to 6 additional crew members to assist with this vital task. The district used one, securely located, 30-yard, open-top container for the sole purpose of measuring and removing floatables that are collected. The district expended approximately 3,840 hours inspecting, cleaning, clearing, and maintaining levees, removing more than 300-cubic yards (27.08 tons) of floating debris from DCURD structural controls. Debris was removed daily from the canals and sumps but only reported in the chart below when weighed and measured by the contracted waste hauler. The District continues to operate a Trash Skimmer Boat for Lake Carolyn which patrols the lake daily removing floatables from the surface water at a much faster and efficient rate than ever before.

<b>Waterway Debris Collection Summary Dallas County Utility &amp; Reclamation District October 2022-September 2023</b>			
<b>Month</b>	<b>Labor Hours</b>	<b>Cubic Yards Removed</b>	<b>Tons Removed</b>
OCT 2022	320	30	4.06
NOV 2022	320	30	3.63
DEC 2022	320	0	0.00
JAN 2023	320	0	0.00
FEB 2023	320	30	0.15
MAR 2023	320	30	4.26
APR 2023	320	30	3.30
MAY 2023	320	30	5.65
JUNE 2023	320	30	0.00
JULY 2023	320	30	2.55
AUG 2023	320	30	2.89
SEPT 2023	320	30	0.59
<b>Totals</b>	<b>3,840</b>	<b>300</b>	<b>27.08</b>

### **Irving Flood Control District Section I (IFCD1)**

The district assigned a crew of 2 employees to inspect and remove floatables from district waterways and levees on a daily basis in order to prevent pollutants from entering the Elm Fork of the Trinity River. The district maintained a secured, 20-yard, open-top trash container for the sole purpose of measuring and removing the collected floatables.

For the period October 1, 2022-September 30, 2023, the district spent approximately 480 man-hours inspecting, clearing, maintaining levees, and removing an estimated 180-cubic yards of debris from structural controls totaling 13.62 tons. It should be noted in regard to the following chart that debris was removed daily but only reported when weighed and measured by the contracted waste hauler. The following table shows reported quantities of debris during this timeframe.

Waterway Debris Collection Summary Irving Flood Control District Section I October 2022-September 2023			
Month	Labor Hours	Cubic Yards Removed	Tons Removed
OCT 2022	48	20	0.87
NOV 2022	48	20	.95
DEC 2022	48	0	0.00
JAN 2023	48	20	2.00
FEB 2023	48	20	1.26
MAR 2023	48	40	4.21
APR 2023	48	20	.70
MAY 2023	48	0	0.00
JUNE 2023	48	0	0.00
JULY 2023	48	20	0.57
AUG 2023	48	0	0.00
SEPT 2023	48	20	3.06
<b>Totals</b>	<b>480</b>	<b>180</b>	<b>13.62</b>

#### Irving Flood Control District Section III (IFCD3)

The Irving Flood Control District, Section III documented 1,920 man-hours inspecting, clearing, and maintaining levees. The district removed 240-cubic yards of debris weighing 29.94 tons from waterways. It should be noted in regard to the following table that debris was removed daily but only reported when weighed and measured by the contracted waste hauler.

Waterway Debris Collection Summary Irving Flood Control District Section III October 2022-September 2023			
Month	Labor Hours	Cubic Yards Removed	Tons Removed
OCT 2022	160	30	6.44
NOV 2022	160	30	6.82
DEC 2022	160	0	0.00
JAN 2023	160	30	5.57
FEB 2023	160	30	.21
MAR 2023	160	0	0.00
APR 2023	160	30	4.21
MAY 2023	160	30	1.74
JUNE 2023	160	0	0
JULY 2023	160	30	2.95
AUG 2023	160	0	0.00
SEPT 2023	160	30	2.00
<b>Totals</b>	<b>1920</b>	<b>240</b>	<b>29.94</b>

## II. FLOATABLES

### **Capital Improvement Program**

The department employs 25 full-time employees that expend approximately 48,000 worker hours inspecting and cleaning drainage channels, curb inlets, inlet baskets, trash collection structures, major rights of way, and city corridors. During the 2022-2023 reporting period, over 697,500 pounds of litter and debris were removed from the MS4.

### **Solid Waste Services Department**

For the period of October 1, 2022 to September 30, 2023, 1 34,560 pounds of litter were removed from rights of way on entrance roads surrounding the Hunter Ferrell Landfill by Solid Waste Services personnel.

### **Parks and Recreation Department**

There were previously 5 full-time employees that were contributing to trash and debris collection via the Parks and Recreation Department, but they were transferred to the Capital Improvement Program's Municipal Drainage Utility at the start of the fiscal year 22-23. Their totals are added into the Capital Improvement Program section above.

During the permit reporting period, the Litter Control Management Program reported removal of 276,140 pounds (138.07 tons) of litter from park properties. This litter was removed using two packer trucks. The Parks and Recreation Department estimated that a total of 16,640 man-hours from October 1, 2022 to September 30, 2023, were expended for litter abatement efforts by department staff as seen in the following table.

<b>Litter Control Parks and Recreation Department October 2022-September 2023</b>			
<b>Employees Engaged in Litter Control</b>	<b>Annual Hours Per Position</b>		<b>Litter Control Hours</b>
<b>Full Time (Primary</b>	<b>2</b>	<b>2,080</b>	<b>4,160</b>
<b>Full Time (Secondary Assignment)</b>	<b>60</b>	<b>2,080</b>	<b>12,480</b>
<b>Totals</b>	<b>62</b>		<b>16,640</b>

The following maintenance contracts provide litter control on properties controlled by the city. During the permit reporting period, the Right of Way Maintenance Contract has reported removal of 163,062 pounds (81.53 tons) of litter from right of way properties.

<b>Contracts for Litter Control</b> <b>Parks and Recreation Department</b> <b>October 2022-September 2023</b>				
<b>Contract</b>	<b>Contractor</b>	<b>Area (Acres)</b>	<b>Miles</b>	<b>Litter removed</b>
City ROW, Acquired Surplus Property, etc. – Mowing and Litter Control	SLM Landscaping and Maintenance	111.60	83.04	33,889 lbs.
Median, SH 183/Belt Line Road Intersection, Streetscapes, Pocket Parks, Beautification Areas, etc. – Grounds Maintenance and Litter Control	Whitmore and Sons	365.22	4.30	62,818 lbs.
TXDOT SH 114 ROW Mowing and Litter Control	Yellowstone	83.21		14,146 lbs.
TXDOT I635, Loop 12 & Hwy 183 ROW Mowing and Litter Control	Yellowstone	307.11		52,209 lbs.
<b>Totals for Contract Litter Control</b>		<b>867.14</b>	<b>87.34</b>	<b>163,062 lbs.</b>

#### **Public Participation in Keep Irving Beautiful (KIB)**

In the 2022-2023 reporting year, Keep Irving Beautiful (KIB) held two major public cleanups - the Great American Cleanup/Don't Mess with Texas Trash-Off and the 32<sup>nd</sup> Annual Trash Bash, supported the fall and spring cleanups of Lake Vilbig, and held 18 smaller scale cleanups with community partners. Summary Statistics in tables below:

#### **Summary Statistics:**

<b>Great American Cleanup/Don't Mess with Texas Trash-Off: April 1, 2023</b>	
Total Volunteer Participants	215
Pounds of Trash Collected	1,200
Pounds of Recyclables Collected	1,120
Total Weight (pounds) of All Material Collected	2,320
<b>32<sup>nd</sup> Annual Trash Bash: September 23, 2023</b>	
Total Volunteer Participants	428
Pounds of Trash Collected	1,680
Pounds of Recyclables Collected	660
Total Weight (pounds) of All Material Collected	2,340
<b>Fall Vilbig Lake Cleanup: October 20, 2022</b>	
Total Volunteer Participants	26
Pounds of Trash Collected	1,850
Pounds of Recyclables Collected	0
Total Weight (pounds) of All Material Collected	1,850

<b>Spring Vilbig Lake Cleanup: April 1, 2023</b>	
Total Volunteer Participants	42
Pounds of Trash Collected	6,710
Pounds of Recyclables Collected	0
Total Weight (pounds) of All Material Collected	6,710
<b>Totals for all Cleanup Events:</b>	
Total Volunteers	1,133
Pounds of Trash Collected	12,430
Pounds of Recyclables Collected	2,037
Total Weight (pounds) for All Materials Collected	14,467

### **III. ROADWAYS**

The City of Irving's street sweeping program consists of 79 routes of streets. The routes were developed to provide a systematic method of sweeping all curb and gutter concrete streets, all surface level parking areas, and other facilities under municipal jurisdiction. Approximately 9,826 miles of streets were swept during this reporting year. Total man-hours to complete these miles was approximately 5,257. The current route methodology provides for four complete sweeps of the entire jurisdiction and ten complete sweeps of all major thoroughfares.

The City of Irving Streets Division deploys crushed limestone "sand" on roadways during icy road conditions using city equipment for distribution and cleanup. The City of Irving had 2 major ice or snow events during this time period. 870 yards of limestone was deployed of the 635 yards of sand deployed street sweepers swept up 265 yards.

## **MINIMUM CONTROL MEASURE (MCM) 2: POST CONSTRUCTION STORM WATER CONTROL MEASURES**

### **I. COMPREHENSIVE MASTER PLANNING**

The majority of the City of Irving is in an area that has been master planned by one of our four Flood Control Districts (FCDs). These FCDs were master planned for fully developed flows both in the FCD and going through the FCD from outside drainage areas.

The 38 percent of the city that does not drain through a FCD has been under a master planning process. This area of the city is 95 percent developed but under old drainage criteria that does not meet current drainage expectations. A major criteria of new drainage projects is that no increase in downstream flooding or erosion may occur. Delaware Creek comprises 13 percent of the City of Irving and a draft of its master plan was completed in June 2014 and construction of a four-phase project was implemented south of State Highway 183 in 2015 and was completed in 2021.

As part of the master planning, the City of Irving continues to convert the floodplain along the Elm Fork and West Fork of the Trinity River into park land. The city has also acquired large tracts of land and created parks along the creeks in the 38 percent of the city not in FCDs.

On October 27, 2017, the city adopted an enhanced development/redevelopment guide, integrated Stormwater Management (iSWM) Design Manual for Site Development, spearheaded by the North Central Texas Council of Governments for lots of one acre and greater in size. On June 27, 2018, The North Texas Council of Governments



recognized the City of Irving as one of only six municipalities in the region as a Silver Level participant in their iSWM program.

The city continues to enforce several new regulations adopted over the past several years and evaluate the need for refinements. The city approved a new Landscaping and Tree preservation ordinance in 2017.

The city maintained the previously established “gateway districts” and continued to require and acquire open space and recreation areas in accordance with uses identified in the *Parks and Open Space Master Plan*.

A new project is under design to remove landscape beds and install decorative hardscape to reduce water and maintenance needs. This is being funded through the TxDOT’s Governor’s Community Achievement Award and plans will be submitted to TXDOT Q1 of 2022, it has started construction and should be completed the Summer of 2024.

Renovation of Irving Boulevard is underway, this project will reduce the roadway from 3 lanes to two lanes. In doing so, wider pedestrian walkways and bike lanes will be installed. Gateways into the Heritage District is part of the plans along with trees and landscape beds. The project started construction in November 2021 and should be completed in summer of 2024.

Irving is an official Tree City USA participant. Annual observances were held and community forestry education programs and other initiatives that promote environmental sustainability were taught during the year. The Tree City USA program, sponsored by the Arbor Day Foundation in cooperation with the USDA Forest Service and the National Association of State Foresters, provided direction, technical assistance, public attention, and national recognition for our urban/community forestry program. Pursuant of the designation, Tree City USA, demonstrated that Irving is a community that really cares about its environment. This year marks the City of Irving being a Tree City USA designee for its 14th year.

We did plant a new tree at Barton Elementary School, 2931 Conflans rd., Irving, TX, 75061. This Arbor Day Event students and staff were given a presentation about Arbor Day and its importance to the community. A 4-inch caliper red oak was planted outside of the school. The event was associated with the 14-year accreditation with Tree City USA. November 18<sup>th</sup>, we are giving away 500-3-5 gallon trees at heritage park).

2/17/2023– Received Tree City USA accreditation for the 14th year, we will have the 15th in February.

4/29/2023 – The citywide Arbor Day Event was held at Heritage Park, located on 217 S Main St, Irving, TX 75060. The celebration this year had several vendors including a face painter, bounce house slide and live music. We had various city departments on site to talk about their programs as well: Water Utilities, Fire Department, Keep Irving Beautiful, and Vector Control. Free tacos, burritos, and tiki freezes were served as well. 150, 3-gallon sized trees were given away as well (50 Live oaks, 50 Autumn Blaze maples, and 50 Tx Red Oaks).

*Storm Water initiatives are a part of the Parks and Recreation Safety Committee. Committee members include storm water mitigation as part of our weekly safety discussions.*

## **II. FLOOD CONTROL PROJECTS**

**City-owned and Public Lands** – The city maintained the previously established “Trinity River Greenbelt,” known as the Champion Trail and continued to acquire open space and recreation areas in accordance with uses identified in the “Parks and Open Space Master Plan.”



A new project is under design to remove landscape beds and install decorative hardscape to reduce water and maintenance needs. This is being funded through the TxDOT's Governor's Community Achievement Award and plans will be submitted to TXDOT Q1 of 2022, it has started construction and should be completed the Summer of 2024.

A review of the proposed alignment for the Central section of Campion Trails has been completed. The project will be constructed in three phases. 100% construction documents of Phase I of the project have been completed and we've made final submittal to the USACE; we have received the permit for Phase 1A in October. We are underway with this effort and hope to have a complete submittal back to the USACE during the Q4 of 2023 for Phase 1B. Phase 1A will now be just the portion of trail within River Hills Park. Construction started in July 2023 and should be completed January 2024. Phase III (subsection of Phase I) is still attempting agreements and easements with a section of private property going to eminent domain due to lack of communication. Phase II trail alignment has been completed and 100% CD submitted to property owners and agencies for comment. We are also working toward agreements on this as well.

A canoe launch is under design along the Elm Fork of the Trinity River in Trinity View Park. The design has been submitted to the USACE with final permit granted in October 2023. We have 100% construction documents and will start the bidding process. The goal is to start construction the Winter of 2024.

Renovation of Irving Boulevard is underway, this project will reduce the roadway from 3 lanes to two lanes. In doing so, wider pedestrian walkways and bike lanes will be installed. Gateways into the Heritage District are part of the plans along with trees and landscape beds. The project started construction in November 2021 and should be completed in summer of 2024.

The city has increased the MDU rate to pay for MDU Bonds in order to finance flood control projects. The city continued to study the severity of flooding in North Delaware Creek, as well as Brockbank Channel, for homes in the 1% annual flood chance zone. Improvements to North Delaware Creek have been funded to reduce flooding in residential areas. Drainage Studies have begun in 2020 for West Irving Creek, North Delaware Creek and Brockbank channel.

Several small unnamed watersheds were studied to determine if detention was required before development could occur. City of Irving Drainage Criteria in Chapter 35 of the Land Development Code Ordinance requires that detention is required if downstream drainage structures are inadequate for fully developed flows.

**Private Development** – The City of Irving, in accordance with the U.S. Army Corps of Engineers Section 404 permitting requirements, requires channels in new developments to be left in a non-erosive, natural condition.

**Capital Improvement Program Department (CIP) Municipal Drainage Utility** – The city spent approximately \$6,880,968.00 on capital projects for channel and levee repairs, dredging, capacity improvements, erosion control and removal of floatables.

**Project 1 - Citywide Drainage Maintenance Projects** – City Staff performed 77 projects for clearing and cleaning trash and debris from stormwater conveyance systems, as well as removing accumulated silt and vegetation. There were 3 pond de-siltation projects in 2 different parks with a total removal of 5,126 cubic yards of sediment.

**Project 2 - Citywide Neighborhood Drainage Improvements** – The city spent approximately \$1.4M for the

construction of neighborhood flood mitigation and repair projects throughout the city. These projects are typically less than \$500k and consist of new closed system improvements, erosion control, bank stabilization, and storm main and lateral repairs.

**Project 3 - Joint Projects with Flood Control Districts** – During the permit reporting year, the city entered into interlocal agreements with the four co-permittees (the flood control districts) to provide funding to alleviate problems created by siltation and embankment slope failures in the districts' canals, lakes, and waterways. The districts dredged canals, lakes, and waterways to maintain proper depths, improve water quality, provide adequate cross-sections for water conveyance, and embankment stabilization for existing canal and levee slope failures.

**Project 4 – North Delaware Creek Channel Improvements** – This is a flood mitigation project. The city contracted Pape-Dawson Engineers to perform a study for the area of Delaware Creek between SH-183 and Finley Road. The project study phase was completed April 2022 and the design of Phase 1 of 3 is scheduled to begin Q1 2023. The estimated construction cost for Phase 1 is \$16.5M and is anticipated to begin construction in Q3 2024 and completed by Q3 2026. The project is funded by the \$100M Drainage Solutions for a Better Tomorrow bond program.

**Project 5 – Brockbank Channel Improvements** – This is a flood mitigation project. The city contracted Pacheco Koch to perform a study of the channel between SH-183 and Brockbank Drive, and the closed storm drain system between Brockbank Drive and W Rochelle Road. The improvements will remove 43 structures from the 100-year floodplain. The study phase is expected to be completed December 2022 and will be followed by the design phase expected to begin Q1 2023. The estimated construction cost is \$13M and is anticipated to begin Q3 2025 and completed by Q3 2027. The project is funded by the \$100M Drainage Solutions for a Better Tomorrow bond program.

**Project 6 – Embassy Channel Improvements** – This is a flood mitigation project. The city contracted Pacheco Koch to design improvements for the project. The improvements include channel improvements between SH-183 and W Rochelle Road, closed system improvements along W Rochelle Road from the channel to N MacArthur Boulevard, closed system improvements along N MacArthur Boulevard from W Rochelle Road to Metker Street, and wastewater improvements. The improvements will remove 273 structures from the 100-year floodplain. The project was advertised for bid Q3 2022, and the low bid came in at \$15.2M. The construction for the project began in Q1 2023 and is estimated to be completed Q1 2025. The project is funded by the \$100M Drainage Solutions for a Better Tomorrow bond program.

**Project 7 – West Irving Creek Channel Improvements** – This is a flood mitigation project. The city contracted Freese and Nichols to study West Irving Creek from the at the Trinity River to Wyche Park and design Phase A (4 phase project) from Alan-A-Dale to Wyche Park. The study was completed November 2021 and design of Phase A kicked off Q1 2022. The improvements include channel improvements between Alan-A-Dale and Lawrence Street, closed system improvements from Lawrence Street to Wyche Park, and improvements to the Wyche Park detention basin to enhance water quality and increase detention capacity. Phase A will remove 165 residential structures from the 100-year floodplain. The estimated construction cost for Phase A is \$26.8M and is anticipated to begin construction Q3 2024 and completed by Q3 2026. The project will be funded by the \$100M Drainage Solutions for a Better Tomorrow bond program and the Texas Water Development Board (TWDB) Flood Infrastructure Fund.

**Project 8 – Citywide CCTV Pipe Inspection & Cleaning Program** – This program began in 2020 and was created to perform closed circuit television (CCTV) inspection and cleaning of the city's storm drain system and update

the GIS storm system network. The city operates and maintains approximately 600 miles of underground storm drain system. The program allows the city to assess the condition of the infrastructure and identify and schedule repairs and maintenance, as needed. During the reporting year, the city spent approximately \$47,000 and televised approximately 27,000 linear feet of storm drain.

**DCFCDD1** – Dallas County Flood Control District No. 1 engineering consultant evaluates district appurtenances annually and report recommendations to the district. This review will be completed by representatives from the district's engineering consultant in November and December of 2023 and the annual report will be completed afterwards. Recommendations from previous reviews addressed issues such as infrastructure repair, vegetation control, and sediment removal to maintain sump capacity and provide flood control. The pump station generators are tested monthly, the motors and pumps are tested annually for a 24-hour period of time, and mowing was done regularly to control vegetation.

**DCURD** – Continued to administer an ongoing, aggressive, dredging program to maintain flood control capacity and water quality in district waterways expending \$1,843,000.00 during the reporting period. The District did rehabilitate dredge basins on South Fork Hackberry Creek and completed dredging operations Lake Boyle removing over 4500 cu yds of silt from the waterway. South Fork Hackberry Creek @ 114 40,000 cu yds of silt was removed, and Slope Paving on Cottonwood Creek.

**IFCDI** – Irving Flood Control District, Section I managed, maintained and controlled 3½ miles of levees, sump capacity, drainage channels, outfall channels, two pump stations, sluice gates, a SCADA control system and necessary related appurtenances to prevent flooding to property in the district. During the reporting year, the district repaired the toe area of the levee behind the 482 pump Station (Bathtub Project). The district brought in dirt to fill in the area from when TRA installed the 108-inch line and raised the ground up that caused water to pool up on the toe of the levee. The district had its 5-year PI Inspection. The USACE came out to inspect the district. Before the inspection the district had the storm drains inspected for the USACE.

**IFCDIII** – Irving Flood Control District, Section III maintained sump capacity, drainage channels, a pump station, sluice gates, and a gravity outfall channel to control flooding. During the reporting period, \$2,047,673 was expended on maintenance and repairs to related facilities.

Major projects included:

- Tilting Weir Project Engineering
- Pump Station Pump 6 rehabilitation
- Pump Station Discharge Pipe Camera Inspection
- Sluice Gate and Headwall Engineering
- Pump Station Outfall Engineering
- Pump Station Pipe Coating

## **MINIMUM CONTROL MEASURE (MCM) 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION**

### **I. PROHIBITED DISCHARGES**

The City of Irving prohibits and makes allowances for certain types of non-storm water discharges to the MS4 under Irving Code of Civil and Criminal Ordinances, Chapter 41, Sec. 41-61. General Prohibition. During the permit reporting period, no changes were made to this section of the ordinance.

## **II. ALLOWABLE DISCHARGES**

Categories of non-storm water discharges that the permittees may exempt from the prohibition on non-storm water entering the MS4 include the following: water line flushing; landscape irrigation; diverted stream flows; rising ground waters; uncontaminated ground water infiltration; uncontaminated pumped ground water; discharges from potable water sources; foundation drains; air conditioning condensation; irrigation water; springs; water from crawl space pumps; footing drains; lawn watering; street wash water; individual residential vehicle washing; wash waters using only potable water and waters which are similar in quality and character to street wash water or individual residential vehicle washing but without the use of detergents or surfactants; flows from riparian habitats and wetlands; de-chlorinated swimming pool discharges; other allowable non-storm water discharges listed in 40 CFR § 122.26(d)(2)(iv)(B)(1); other allowable non-storm water discharges as listed in the Texas Pollutant Discharge Elimination System (TPDES) Construction General Permit No. TXR150000 and TPDES Multi-Sector General Permit No. TXR050000; as well as other similar occasional incidental non-storm water discharges, unless the Texas Commission on Environmental Quality (TCEQ) develops permits or regulations addressing these discharges.

## **III. FIRE FIGHTING DISCHARGES WITH SIGNIFICANT SOURCES OF POLLUTION**

The City of Irving Emergency Operation Plan: Annex F – Firefighting under Section VI. Organization and Assignment of Responsibilities task Water Utilities with responding to any hazardous chemical and/or petroleum products spilled. To protect the environment and prevent their entry into the waters of the MS4 or the state. This assignment applies for both vehicle and structural fire situations.

In the event hazardous chemicals or petroleum products enter MS4 or waters of the state, the Municipal Drainage Utility will follow the operation plan: Annex Q-Hazardous Material and Oil spill response. This annex establishes the policies and procedures under which the City of Irving will operate in the event of a hazardous material incident or oil spill. It defines roles, responsibilities and organizational relationships of government agencies and private entities in responding to and recovering from an oil spill or incident involving the transport, use, storage or processing of hazardous material(s).

The spiller is, by common law, responsible for all cleanup activities. Most recovery activities will be conducted by contractors, paid for by the responsible party, and overseen by city, state or federal authorities. Methods of cleanup may include excavating, pump and treat, dredging, skimming, dispersion or neutralization, vacuuming and biological remediation. Dilution is usually prohibited as a substitute for treatment.

The Water Utilities Public Works Director is the City Recovery Coordinator who is responsible for overseeing recovery and cleanup efforts and serves as the local government point of contact with the responsible party, cleanup contractors and state and local agencies.

All staff involved in recovery/remediation efforts will be HAZWOPER qualified per EPA/OSHA rules.

## **IV. DETECTION AND ELIMINATION OF ILLICIT DISCHARGES**

### **Elimination of Illicit Discharges and Improper Disposal**

The city used a step-enforcement program (or escalating method of code enforcement) to gain compliance and correct illicit discharge and improper disposal violations.

The Water Utilities/Environmental Compliance Section used the following process for enforcement actions:

- (1) Environmental compliance staff, upon finding a violation, issued a Notice of Violation and assessed the level of difficulty for the discharger to cease the violation.
- (2) In most cases, the problem was required to be rectified within 48 hours and a follow-up inspection was performed to determine compliance.
- (3) If the violation still existed, but there was evidence that there had been an effort to correct the problem, then staff determined if there was a need for the violator to develop a plan of action to remove the discharge.
- (4) If the violation was determined to be an immediate concern that could impact the MS4 or waters of the state, staff temporarily discontinued water service to that establishment with director approval.
- (5) Upon re-inspection, if staff determined that there was no evidence of effort to rectify the problem or if they determined that the violation still existed after the deadline set by an action plan, then a citation was issued, and the matter referred to the court system. Under the Irving Code of Civil and Criminal Ordinances, Chapter 41 Section 41-71, the violator can be subject to a fine of up to \$2,000 per day, or any greater fine authorized by state statute.
- (6) If the city exhausted all enforcement options and the violation remained, the case was referred to the appropriate state or federal authorities.

**The Code Enforcement Department** used the following process to gain compliance to correct trash, stagnant water, illegal dumping, and sewage discharge violations:

- (1) A code enforcement inspector, upon finding a violation, issued a Notice of Violation and established the appropriate time frame to correct the code violation(s).
- (2) In most cases, the inspector required the problem to be rectified within one to ten days depending on the violation(s). A follow-up inspection was performed to determine compliance.
- (3) Upon the final re-inspection, if the violation(s) still existed and there had been no response or improvement by the property owner the inspector issued a citation.
- (4) Enforcement continued until the violation(s) was/were abated. Under the Irving Code of Civil and Criminal Ordinances Chapter 33 Section 33-20, and Land Development Codes Chapter 1144 Section 52-56 and Chapter 8 Section 8-26 the violator can be subject to a fine of up to \$2,000 per day, or any greater fine authorized by state statute.
- (5) If the city exhausted all enforcement options and the violation(s) was/were not abated, the case was referred to the City Attorney's Office for options, which may have included the filing of a Chapter 54 lawsuit to obtain a Permanent Injunction.

**The Capital Improvement Program Department (CIP)** used the following process for gaining compliance with the TPDES General Construction Permit on privately funded construction projects to prevent the discharge of pollutants into the drainage system:

- (1) When problems were seen or corrections were needed, a verbal notice was issued to the violating company's

on-site representative or by telephone to the company's main office personnel. A detailed inspection report is also emailed with any corrective action required.

- (2) If the issues were not resolved by the follow up inspection, a Notice of Violation (NOV) was issued to the company's on-site representative with a detailed inspection report with corrective actions required.
- (3) If the company did not comply with the written warning, a Stop Work Order, (SWO) a written directive from the CIP that required all on-site construction activities to cease until compliance had been achieved was issued to the company and resulted in:
  - a. The Planning and Inspections Department suspending all job site inspections until notification that compliance had been achieved.
  - b. If construction (other than those activities necessary to gaining compliance) did not cease, the Planning and Inspections Department issuing citations to company employees and the company became liable for civil penalties in accordance with the appropriate sections of city code.
- (4) If compliance was still not obtained, the Texas Commission on Environmental Quality was notified and requested to inspect the job site, suspend the job site permit, and issue punitive measures as appropriate.
- (5) In addition, the Environmental Protection Agency (EPA) was notified and requested to inspect the job site to have federal punitive measures instituted as appropriate.

For CIP projects, final payment is withheld from the operator pending submittal of a copy of the completed storm water pollution prevention plan (SW3P) including all reports and records kept in the development of the SW3P in accordance with the TPDES Construction General Permit, TXR150000.

**The Inspections Department** included an overall job site evaluation for erosion and sedimentation controls in trade inspections on new construction. The inspectors used the following procedures to gain compliance:

- (1) For minor violations or the initial discovery of more extensive problems, the inspector issued a verbal warning. Verbal warnings are informal and typically not documented.
- (2) For continued violations or those of a more extreme nature, a "red tag" was left with the on-site construction representative with a timeline set for correction. No further inspections were done if erosion and sedimentation controls were not in place.
- (3) Upon re-inspection, if corrections were not made to violations set forth in the "red tag" or for violations presenting a life-threatening hazard or an immediate danger to the environment, a Stop Work Order was issued to the company requiring all on-site construction activities to cease until compliance had been achieved.
- (4) If these measures failed to gain compliance, citations were issued.

## **V. OVERFLOW AND INFILTRATION**

The city performs a variety of activities as part of its program to eliminate spills, overflows, inflow, and infiltration. These include smoke testing, manhole inspections, dyed-water flooding, a regular program of preventive maintenance cleaning and TV inspections followed by remedial construction.

**Consultant contracts** - RJN Group, Inc. completed a Sanitary Sewer Evaluation Survey (SSES) for the Southwest

Irving Interceptor Basin in August of 2012. This SSES evaluated approximately 186,000 linear feet of sanitary sewer and 450 manholes. A prioritized list of needed sanitary sewer rehabilitation, repair, and replacement projects was provided. Operations staff have entered the repairs identified into the computer maintenance management system to be completed.

**A. Sewer System Preventive Maintenance/Repair Summary**

During the reporting period, 844,497 linear feet of sanitary sewer services and mains were cleaned as part of the Preventative Maintenance program. There were 61 manholes rehabbed or repaired. For a detailed summary see the table below.

Sewer System Preventive Maintenance/Repair Summary Public Works/Water Utilities October 2022– September 2023		
Type of Work	# Jobs	Footage
Sewer Structure, Manhole, Preventive Maintenance	32	700
Sewer Structure, Manhole, Repair	61	0
Sewer Main, Investigation	111	21,346
Sewer Main, Repair	68	0
Sewer Main, Sewer Main Stoppage	78	25,740
Sewer Main, Private Stoppage	25	3,216
Sewer Main, Degreaser, Preventive Maintenance	1651	839,944
Sewer Main, Degreaser, Sewer Main Stoppage	36	1,530
Sewer Main, Degreaser, Private Stoppage	1	666
Sewer Main, Degreaser, Sewer Service Stoppage	10	4,380
Sewer Main, Wash/Vacuum, Preventive Maintenance	295	218,340
Sewer Main, Wash, Preventive Maintenance	561	541,189
Sewer Main, Wash, Sewer Main Stoppage	83	24,071
Sewer Main, Wash, Private Stoppage	10	3,216
Sewer Main, Wash, Sewer Service Stoppage	4	1,835
Sewer Main, Rod, Preventive Maintenance	4	3,480
Sewer Main, TV, Investigation	366	269,284
Sewer Main, Vapor Root, Preventive Maintenance	21	5,145
Sewer Service, Preventive Maintenance	261	2,752
Sewer Service, Repair	247	0
Sewer Service, Private Stoppage	371	3,072
Sewer Service, Sewer Service Stoppage	733	48,021
Sewer Service, Wash, Preventive Maintenance	17	817
Sewer Service, Wash, Private Stoppage	63	2,907
Sewer Service, Wash, Sewer Service Stoppage	329	13,597
Sewer Service, Rod, Preventive Maintenance	5	100
Sewer Service, Rod, Repair	0	0
Sewer Service, Rod, Sewer Main Stoppage	0	0
Sewer Service, Rod, Private Stoppage	3	165

The city operates a SCADA (computerized Supervisory Control and Data Acquisition) system to manage water distribution and wastewater collection including 11 sanitary sewer lift stations. SCADA continuously monitors



and reports the level of wastewater in the lift stations, the status of pumps, alerts operators to power failures and provides an intrusion alarm. Continuous monitoring of the lift stations alerts SCADA operators to potential maintenance issues that staff can respond to before a more serious failure occurs. Flygt controllers and back-up float systems (in the event that the controllers fail) are installed at all lift stations. The controllers provide extensive information about how the pumps at the lift stations are operating which promotes more efficient operation and helps minimize downtime.

#### **Reported Sanitary Sewer Overflow's (SSOs) and TCEQ SSO Initiatives**

Upon notification or discovery of sanitary sewer overflows or breaks, city personnel cleared blockages and recovered waste material. Affected areas were cleaned and disinfected. Repairs were made as needed.

During the reporting year, 25 property owners were notified of overflows on private sites. Most had follow-up inspections. Those not requiring follow-up inspections were corrected before or during the initial inspection. The city assumed responsibility for 16 overflows that occurred in the public system including cleanup and system repair. None of the 16 reported overflows were caused by flooding and TRA lines backing up. The following table displays the 16 sewer overflows the city responded to last year by month of occurrence.

Reportable Sanitary Sewer Overflows Public Works/Water Utilities October 2022 – September 2023		
Permit Year Month	City only Reported SSO's	City and TRA/Flood Related SSO's
Oct-22	1	0
Nov-22	0	0
Dec-22	3	0
Jan-23	3	0
Feb-23	1	0
Mar-23	3	0
Apr-23	1	0
May-23	4	0
Jun-23	0	0
Jul-23	0	0
Aug-23	0	0
Sep-23	0	0
<b>Total Overflows</b>	<b>16</b>	<b>0</b>

The city is awaiting state approval to participate in the Texas Commission on Environmental Quality's Sanitary Sewer Overflow (SSO) Initiative, which was developed to reduce sanitary sewer overflows across the state. The original agreement with the state was approved in March 2007 and expired in 2017. The initiative included measures to reduce grease in the sanitary sewer system through public education, revision of city ordinances, and more frequent cleaning and videotaping of the sewer system. The SSO initiative was revised in 2021.

#### **A. Public Education**

<b>FOG Education &amp; Outreach Activities Public Works/Water Utilities &amp; Office of Environmental Stewardship October 2022– September 2023</b>		
<b>Method of Education/Outreach</b>	<b>Number</b>	<b>Reach</b>
<b>Festivals</b>		
Informational booths at public events	17	25,550
<b>Training</b>		
Training classes for FOG	3	200
<b>Public Service Announcements</b>		
Radio Public Service Announcements	155	~789,000
<b>Brochures Distributed – Outreach</b>		
Defend Your Drains!	1500	1500
<b>Brochures Distributed – Commercial</b>		
Automotive Related Business Stormwater Brochure	30	30
Grease Trap Cleaning Requirements	200	200
<b>Total Brochures</b>	<b>1,730</b>	<b>1,730</b>
<b>Door Hangers</b>		
Help Reduce Sewer Clogs and Sewer Overflows	1,000	1,000
<b>Promotional Items Distributed</b>		
Toilet not a trash can	150	150
Can Covers	600	600
Reusable Plasticware	200	200
Spatulas	75	75
Grease Funnels	150	150
Grease Scrapers	450	450
Strainers/Drain Covers	500	500
<b>Total Items Distributed</b>	<b>1,985</b>	<b>1,985</b>

#### **Publications**

Additionally, the following items informed about proper disposal of cooking fats, oils, and grease.

“Help Reduce Sewer Clogs and sewer Overflows” (door hanger – English edition), distributed to homes and apartment complexes after an SSO in the area or areas prone to SSOs, October 2022 – September 2023.

“Ayude a reducir obstrucciones y derrames en las alcantarillas” (door hanger – Spanish edition), distribution to homes and apartment complexes after an SSO in the area or areas prone to SSOs, October 2022 - September 2023.

#### **B. Revision of city ordinance**

Because of the city’s participation in the SSO Initiative, the ordinance dealing with liquid waste transporters was updated in July 2007. It required all grease traps to be cleaned at least every 90 days, but more frequently for traps that surpass 25% of combined FOG and solids sooner than 90 days. During the reporting year, there were

approximately 1300 active facilities in the FOG (fats, oil, and grease) program, of which 908 have grease interceptors/traps. A total of 293 grease/grit trap inspections were conducted.

**C. Increased system cleaning/videotaping**

The city implemented specific actions to conduct cleaning of at least 1,200,000 feet and televising a minimum of 250,000 feet of the wastewater collections system per year. During this reporting year, 1,836,730 linear feet of sanitary sewer mains were cleaned, and 289,523 feet of sewer main were videotaped as shown in the table below.

Sewer Mains Cleaned Water Utilities October 2022 – September 2023		Sewer Lines Videotaped Water Utilities October 2022 – September 2023	
Month	Feet Cleaned	Month	Feet Taped
October 2022	153,602	October 2022	18,426
November 2022	114,555	November 2022	18,800
December 2022	102,006	December 2022	12,219
January 2023	151,088	January 2023	29,244
February 2023	161,892	February 2023	15,455
March 2023	170,044	March 2023	23,844
April 2023	176,668	April 2023	19,404
May 2023	181,818	May 2023	37,728
June 2023	161,213	June 2023	41,106
July 2023	153,571	July 2023	23,093
August 2023	184,890	August 2023	25,699
September 2023	125,383	September 2023	24,505
<b>Total Footage</b>	<b>1,836,730</b>	<b>Total Footage</b>	<b>289,523</b>

**D. Wastewater**

**Construction Projects**

**Inflow Infiltration Projects**

During the reporting year, the city continued to evaluate the sanitary sewer system for inflow and infiltration problems. The following projects were awarded, continued, or planned based on the findings of this, and past evaluations.

**Project 1** – On September 16, 2022, the city awarded a contract to M-Co construction, Inc for Cottonwood Valley Phase 2 project. This project consists of the installation of approximately 1,630 linear feet of 30-inch wastewater main. The total amount of the award was \$2,586,592.00. Construction is scheduled to begin January, 2023.

**Project 2** – On February 8, 2023, the city awarded a contract to Zachry Construction Corp. for Conflans Road Drainage Improvement project. This project consists of the installation of approximately 1,329 liner feet of 12-inch wastewater main. The total amount of the award was \$24,178,607.00. Construction is scheduled to begin April, 2023.

Project 3 – On June 9, 2022, the City awarded a contract to Insituform Technologies, LLC, for IH635 and Valley View Wastewater improvements. This project consists of the installation of about 98 linear feet of 24-inch cast in place wastewater main and 1,294 linear feet of 36-inch cast in place wastewater main. The total amount of the award was \$1,097,055.00. Construction is scheduled to begin August 22, 2022.

Project 4 – On June 20, 2022, the City awarded a contract to Flow-Line Construction, Inc. for Skyway Circle Water and Wastewater improvements. This project consists of the installation of about 75 linear feet of 6-inch wastewater main, 1,220 linear feet of 8-inch wastewater main. The total amount of the award was \$1,638,150.00. Construction is scheduled to begin June, 2023.

Project 5 – On October 27, 2022, the City awarded a contract to Insituform Technologies, LLC, for Hackberry Wastewater improvements. This project consists of the installation of about 4,544 linear feet of 36-inch cast in place wastewater main. The total amount of the award was \$2,859,716.00. Construction is scheduled to begin June, 2023.

Totals awarded, under construction and completed: 10,190 linear feet of 4-inch to 36-inch sanitary sewer main at a cost of \$32,360,120.00.

#### **Wastewater Master Plan Projects**

In November 2017, the city adopted a comprehensive Wastewater Master Plan to meet regulatory obligations by providing long-term guidance and prioritization for sanitary sewer interceptor and collection system capital improvements. During the reporting year, the following projects were awarded, continued construction, or were completed.

## **VI. HOUSEHOLD HAZARDOUS WASTE**

The Solid Waste Services Department provided residential curbside pickup of used motor oil, antifreeze, transmission fluid, and a variety of household hazardous wastes via a Special Waste Collection service. Residents were asked to set their materials for special collection near their regular pickup location and notify the Solid Waste Services office to dispatch the crew to their location. Refuse crews also notified the office when they observed suitable materials set out for collection.

Special Waste Tonnage Solid Waste Services Department October 2022- September 2023					
Month	Filters	Oil	Paint	Tires	Batteries
OCT 2022	0	12	32	0	0
NOV 2022	2	19	22	0	0
DEC 2022	0	9	12	0	0
JAN 2023	1	10	26	0	0
FEB 2023	1	6	40	0	0
MAR 2023	0	37	179	0	0
APR 2023	1	8	240	0	0
MAY 2023	0	3	135	0	0
JUNE 2023	0	10	160	0	0
JULY 2023	0	23	189	0	0
AUG 2023	1	7	180	0	0



SEP 2023	0	11	145	0	0
<b>Totals</b>					
Quantity	6	155	1360	0	0
Multiplier	1	8	10	27	41
Pounds	6	1180	13600	0	0
Tons	0.003	0.590	6.8	0	0
<b>Total Tons of Special Waste Managed</b>					<b>7.393</b>

City participation in the Dallas Area Household Hazardous Waste (HHW) Network provides all Irving residents with a convenient, efficient, and environmentally friendly way to dispose of household hazardous wastes such as pesticides, herbicides, fertilizers, auto fluids, batteries, light bulbs, paint, pool chemicals and other household chemicals at the Dallas County Home Chemical Collection Center.

The city also held three Single-Day Collection Events: October 2022, February 2023, and June 2023. A total of 673 residents participated in the collection event and drop-off at the Dallas County Home Chemical Collection Center. Below is the summary of events.

<b>Dallas Area Household Hazardous Waste Network Usage Summary Solid Waste Services October 2022- September 2023</b>	
<b>Single-Day Collection Event Locations</b>	<b>Participating Irving Households</b>
Briery Location, October 22, 2022	104
Briery Location, February 25, 2023	91
Briery Location, June 24, 2023	100
<b>Total Single-Day Event Users</b>	<b>295</b>
Drop-Off Center	378
<b>Total Network Services Users</b>	<b>673</b>

## VII. MS4 SCREENING AND ILLICIT DISCHARGE INSPECTIONS

From October 1, 2022 to September 30, 2023 the Environmental Compliance section received and investigated 139 stormwater-related complaints and 48 sanitary sewer complaints. In all incidents, immediate cleanup was required. Departmental policy was, and remains, to educate violators regarding regulations before issuing tickets or filing charges. Two warnings or "Notices of Violation" (NOVs) were given before enforcement action, such as the issuance of a citation, was taken. If a violation is deemed to be an immediate danger to the environment, a citation can be issued prior to issuing NOVs. During this reporting year, Environmental Compliance inspectors issued 158 NOVs and 2 citations. Environmental compliance inspectors also, with director approval, terminate water service to those violations that posed an immediate danger to the MS4.

<b>Stormwater-Related Complaints and Resolution Public Works/Water Utilities – Environmental Compliance October 2022– September 2023</b>			
<b>Complaint Type</b>	<b>Complaints</b>	<b>NOVs Issued</b>	<b>Citations Issued</b>

	Received		
Hazmat	5	0	0
Sewer Overflow	48	18	0
Industrial, commercial, residential, etc. pollution	134	29	2
No Grease Trap Cleaning	0	111	0
<b>Total</b>	<b>187</b>	<b>158</b>	<b>2</b>

Samples of flows were collected and analyzed for the following parameters:

Parameter	Reporting Units
Ammonia	parts per million (ppm)
Chlorine	parts per million (ppm)
Copper, total	parts per million (ppm)
Detergent	parts per million (ppm)
pH	Standard Units (S.U.)
Phenols	parts per million (ppm)

From October 1, 2022, to September 30, 2023, the Code Enforcement Section received and investigated 1,764 complaints regarding stormwater issues and floatables. Code Compliance officers issued 1,764 Notice of Violations and 50 citations.

Stormwater Complaints and Resolution Code Enforcement Department October 2022 - September 2023			
Complaint Type	Complaints Received	NOVs Issued	Citations Issued
Trash Out Early, Litter/Debris, Dumpster Issues	1,581	1581	50
Stagnant Water	86	86	0
Illegal Dumping	5	5	0
Sewage Discharge	92	92	0
<b>Total</b>	<b>1,764</b>	<b>1,764</b>	<b>50</b>

#### VIII. NPDES AND TPDES PERMITTEE LIST

As of September 30th, 2023 the following Notices of Intent (NOIs) were on file in the Environmental Compliance section of Water Utilities.

Notices of Intent for Industrial Facilities Environmental Compliance October 2022- September 2023		
Company Name	Street Address	Permit Number
Amazon.com Services LLC	2700 Regent Blvd	TXR05ET87

Amazon.com Services LLC	3500 South Airfield Dr	TXR05FR20
Americas Beverage	1331 E Airport Fwy	TXR05EL70
Bestolife	2222 Vanco Dr	TXR05CX15
BNSF Railway Company	525 E Airport Fwy	TXR05DH96
BP Aerospace 1	4961 Hanson Dr	TXR05FN53
BP Aerospace 2	5260 Valley View Ln	TXR05FY43
Brakebush	2230 E Union Bower	TXR05FD49
Challenge MFG	5101 Statesman Dr	TXR05FW80
City of Irving - Hunter Ferrell Landfill	220 W Hunter Ferrell Rd	TXR05M662
Dr Pepper	2304 Century Center Blvd	TXR05AN33
FedEx Freight, Inc.	3100 S Belt Line Rd	TXR05Z887
FedEx Ground	3215 Spur 482	TXR05K605
Fresenius Medical Care	5201 Regent Blvd	TXR05FK30
Frito Lay	701 N Wildwood	TXR05AX96
Herzog Transit Services, Inc.	4801 W Rock Island Rd	TXR05Q216
Kenan Advantage Group (KAG)	2121 E Grauwyler Rd	TXR05FY64
Legacy Ready-Mix	1502 Irene Dr	TXG113235
Matheson Tri-Gas	5240 Valley View Ln	TXR05FE29
Mohawk Labs	2730 Carl Rd	TXR05M766
Owens Corning	201 N Nursery Rd	TXR05DB02
Safety Kleen Systems Inc	2130 E Grauwyler	TXR05CV90
Trinity Railway Express	4801 W Rock Island Rd	TXR05Q216
TForce Freight	2600 E Pioneer Dr	TXR05FU27
USA Packaging	2500 Carl Rd	TXR05Q715
YRC Freight	200 N Belt Line	TXR05AM33

#### IX. MS4 MAP

The City of Irving currently has all city-owned outfalls GPS located and photographed. See attached map in Appendix K.

#### X. SPILL PREVENTION AND RESPONSE

The Hazardous Materials Team, under the direction of the fire department, was comprised of a total of 77 fire department members, divided among three duty shifts. The Hazardous Materials Team is housed at Station No. 8, 650 Las Colinas Blvd., with a satellite station at Station No. 11, 6200 Love Drive. Specialized response equipment was housed with these personnel and was available for response 24-hours a day. During the permit reporting period from October 1, 2022 through September 30, 2023, team members completed a total of 1836 hours of training in preparation for emergency response. The department responded to 23 spills or hazardous materials incidents during this period.

Date	Location	Description
10/05/2022	5425 FAA Blvd	Natural Gas
10/17/2022	1616 Shadow Lane	Natural Gas
10/27/2022	Mutual Aid – Dallas	Natural Gas



10/31/2022	1501 S. Walton Walker Blvd	Oil spill
11/09/2022	S. Britain & Second Street	Natural Gas
11/22/2022	2800 Ranch Trail	Natural Gas
12/09/2022	N. Royal Lane & Esters Blvd	Fuel Leak
12/15/2022	E. Irving Blvd & S. Jefferson	Natural Gas
12/15/2022	Mutual Aid – Dallas	Natural Gas
12/17/2022	N. Wildwood & Vanco Dr.	Natural Gas
01/05/2023	2616 Castle Street	Natural Gas
01/26/2023	2975 Regent Blvd	Inv. White powder
02/13/2023	350 E. Las Colinas Blvd	Natural Gas
03/02/2023	410 S. Loop 12	Fuel Leak
03/27/2023	E. Irving Blvd & N. Britain Rd	Natural Gas
04/03/2023	10116 Gent Ct.	Natural Gas
04/13/2023	2118 N. Clearspring Dr	Natural Gas
04/17/2023	200 W. JCF	Natural Gas
05/03/2023	14056 Pickwick Ln	Natural Gas
05/08/2023	3906 Wingren Rd	Natural Gas
06/01/2023	4550 W. JCF	Natural Gas
06/05/2023	801 W. Irving Blvd	Nitrogen gas leak
07/19/2023	7380 N Hwy 161	Natural Gas
08/16/2023	604 Murl Dr	Natural Gas
08/24/2023	Beltline & Hunter Ferrell	Plaster spill
08/30/2023	2000 Westridge	Natural Gas
09/03/2023	2215 Century Circle	Nickle powder
09/09/2023	Hwy 161 & Gateway	Diesel spill
<b>TOTAL</b>		<b>28</b>

#### Water Utilities

Environmental Compliance employees attended the 8-hour Hazardous Material Refresher Course presented by the Irving Fire Department. This training was classroom topics and a field exercise that covered CFR 1910.120 HAZWOPER given by IFD. Had one employee take an on-line 8-hour Refresher course. Had one employee take a 40-Hour HAZWOPER with another city before employment with Irving. Three new employees took a 24-hour HAZWOPER online.

<b>Hazardous Materials Training Public Works/Water Utilities – Environmental Compliance October 1, 2022 – September 30, 2023</b>			
<b>Department</b>	<b>Course</b>	<b>Date</b>	<b>Number of Employees</b>
Environmental Compliance and Water Utilities	8-hour Hazardous Material Refresher Course	11/2022	10
Environmental Compliance	24-hour HAZWOPER (online)	5/2023	2
Environmental Compliance	24-hour HAZWOPER (online)	7/2023	1

Environmental Compliance	8-hour Hazardous Material Refresher Course (online)	12/2022	1
Environmental Compliance	40-hour HAZWOPER	2/2023	1

### Emergency Management

The city has HAZMAT/plume modeling software located on the Irving Mobile Command Vehicle to be used for any major HAZMAT event in the City of Irving. The City of Irving also procured an Incident Management Software that is utilized for planning and response to large scale emergencies that may occur within our jurisdiction.

The City of Irving participates in the quarterly Dallas County Local Emergency Planning Committee (LEPC) meetings with local government entities, as well as private sector stakeholders involving facilities that store known hazardous chemicals. Tier II sites that were listed as being in the top 10 most hazardous sites due to where they were located/what kinds of chemicals they had being stored there were mapped, as well as if there was a spill, what it might look like and how many people it might affect.

During the reporting period the Office of Emergency Management updated five of the annexes in the emergency operations plan to include: Integrated Preparedness Plan, Annex B Communications, Annex F Firefighting, Annex G Law Enforcement, and Annex P Hazard Mitigation.

## XI. LIST OF PRIORITY AREAS TO INSPECT FOR ILLICIT DISCHARGES

The city has prepared a map of priority areas to inspect on a monthly basis as a part of this MCM. Sites are chosen by their history of illicit discharges, areas where no other sampling takes place and areas where older sanitary sewer infrastructure exists. The map is reevaluated on an annual basis.

### High Priority Monthly Sampling Sites

1-Hackberry Trib @ Harrington Park
2-Delaware Trib @ E Irving Heights
3-Dry Branch @ Conflans
4-Delaware @ Twin Wells/Singleton
5-Estelle Creek behind Dog park
6-Cottonwood Branch @ Las Brisas
7-Cottonwood Branch @ 161 (east side)
8-Brookhollow Branch @ Wildwood Dr.
9-Elm Fork Trib @ Riverside
10-Grapevine Creek @ Regent
11-Elm Fork Trib, behind Brakebush
12-Elm Fork Trib @ E. Pioneer
13-Elm Fork Trib @ 3.0E
14- West Irving Branch @ Oakland Dr
15- Grapevine Trib @ Royal

## **MINIMUM CONTROL MEASURE (MCM) 4: POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS**

### **I. POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM**

#### **A) Identify and Implement**

The City of Irving began a Good Housekeeping effort in 2009 of all municipal facilities. Quarterly inspections are conducted of the seven largest facilities. Any deficiencies found are immediately addressed. The seven facilities inspected quarterly are: Briery Yard, Valley View Municipal Center, Las Colinas Service Center, Fritz Park Maintenance Office, Animal Shelter, Trinity View Service Center and the Soccer Complex Maintenance Yard. In addition, as of 2016, another 48 city-owned facility properties are inspected once per calendar year for general pollution prevention and good housekeeping.

#### **B) Reduction of Discharges to Maximum Extent Practicable (MEP)**

The city's high priority facilities have ongoing quarterly inspections and regular maintenance and cleanup efforts. BMPs for stormwater structures and outfalls are regularly inspected and cleaned. Both wet weather and dry weather tests of storm water are performed at all outfalls throughout the year. No positive indications of illicit discharges were found during the 2022-23 reporting year.

#### **C) Training for All Employees**

The city has an ongoing employee training program for incoming employees with regards to storm water pollution prevention. The training emphasizes best management practices (BMPs) they can perform in their respective departments to prevent storm water pollution. All new employees are now required to view a training video through NCTCOG's storm water pollution prevention video.

### **II. STRUCTURAL CONTROL MAINTENANCE MEASURES**

- D) A required component of the SWMP is the implementation of a Pollution Prevention and Good Housekeeping Program designed to prevent or reduce pollutant runoff from municipal operations and from municipally owned storm water facilities. This program has been developed to meet the requirements outlined above. The objectives of the Pollution Prevention and Good Housekeeping for Municipal Operations are:

<b>Pollution Prevention and Good Housekeeping Practices</b>
Identify locations of all materials that could cause pollution if spilled or otherwise released into the environment;
Identify all storm sewer conveyances and discharge points to aid in the isolation of contaminants should any be spilled into the system;
Identify locations of spill containment equipment and materials;
Implement and maintain best management practices (BMPs) that identify, reduce, eliminate, and/or prevent the discharge of stormwater pollutants;
Prevent violations of State surface water quality, groundwater quality, and sediment management standards;
Eliminate unpermitted discharges and other illicit discharges to separate storm drainage systems; and

### III. WASTE HANDLING

The fleet maintenance facility at Briery has a waste handling BMP and standard operating procedures for all of its used fluids. Used motor oil, fuel, hydraulic fluids, brake fluids, transmission fluids, and antifreeze are collected and placed into used waste storage tanks that are surrounded by secondary containment structures designed to contain any spills or leaks from the tank operations. Any spills during vehicle maintenance are collected with absorbent Pig Mats and/or dry absorbent granules. The used absorbent material is properly stored until disposed by a third-party disposal vendor. The used oil tank is removed weekly, and as needed, if more pickups are needed by an outside contractor. All other waste material is picked up by secondary waste hauler when the material containers are full. All waste manifests accompany all removed wastes and are retained in records for review.

### IV. PESTICIDE, HERBICIDE AND FERTILIZER APPLICATION

The Parks and Recreation Department maintained approximately 2,850.25 acres of land including parkland, public grounds, medians, and public rights-of-way during the permit year. All of these areas were maintained using both in-house personnel and private contractors.

A total of 15 maintenance employees have successfully completed state licensing and testing requirements for pesticide applicator certification. In-house, the department provided training achieving pesticide applicator certification for key operational personnel to greatly expand the scope of existing pesticide application contracts.

The Code Enforcement Department was responsible for city-wide mosquito control during this reporting period. Active throughout the year, the program was managed by a full-time licensed pesticide applicator with the Texas Department of Agriculture, a part-time Vector employee, and a seasonal Vector employee.

**DCFCD1** – Vegetation within the district was controlled primarily by routine mowing and cutting. Dallas County Flood Control District No. 1 had two people working approximately forty hours per week doing maintenance. There has been vegetation established at the repaired Estelle Creek drop structure follows BMP 26 guidelines.

**DCURD** – Maintained 348.85 surface acres of lakes and waterways using an established, comprehensive lake management program which addressed aquatic weed and algae control and aquatic animal damage control. The district used integrated pest management practices utilizing algaecides, herbicides, non-pesticide dyes, mechanical control and cultural control measures. District personnel only used products that do not require a permit to apply and carry no restrictions for application. The District remains a Level II Operator according to TCEQ Guidelines, has completed the Self Certification Form for Level II under the TPDES Pesticide General Permit TXG870000, and maintains that form on-site per TCEQ requirements.

**IFCD1** – Irving Flood Control District, Section I regularly mowed and trimmed vegetation on all properties to control weeds and encourage vegetative growth during the reporting year at a cost of \$28,000. No spraying for weed control was used during the reporting period. All weedy vegetation was removed via weed eating and mowing.

**IFCD3** – Irving Flood Control District, Section III regularly mowed all properties to control weeds and encourage desirable vegetative growth during the reporting year. The district expended \$37,000 mowing district levees and

surrounding areas.

## V. LIST OF MUNICIPAL FACILITIES

The list of City of Irving municipal facilities can be viewed in appendix H.

## MINIMUM CONTROL MEASURE (MCM) 5: INDUSTRIAL AND HIGH-RISK RUNOFF

### I. PRIORITIES AND PROCEDURES FOR INSPECTION AND IMPLEMENTATION OF CONTROL MEASURES

The City of Irving has no wastewater treatment facilities, transfer stations, incinerators, or hazardous treatment facilities. The city's landfill has an on-site Environmental Compliance administrator who monitors stormwater runoff and contracted Environmental Consultant who assists with the permit conditions. Windblown litter is picked up in the area on a regular or as needed basis.

### II. INDUSTRIAL AND HIGH-RISK MONITORING PROGRAM

- A) The following 23 storm water inspections were performed during the reporting year by Environmental Compliance staff in conjunction with the city's Industrial Pretreatment Program.

Permitted Industry Inspections Environmental Compliance October 2022 – September 2023		
Industry	Permit Number	Inspection Date
Americas Beverage	TXR05EL70	6/22/2023
BP Aerospace 1	TXR05FN53	4/24/2023
BP Aerospace 2	TXR05FY43	4/24/2023
Brakebush	TXR05FD49	7/25/2023
Chemolee Labs	TXRNEBP12	5/10/2023
Cosmetic Labs	TXRNEBP03	1/11/2023
Cosmetic Labs 2	TXRNEBU74	1/11/2023
Dr Pepper	TXR05AN33	4/25/2023
Fresenius Medical Care	TXR05FK30	4/11/2023
Frito Lay	TXR05AX96	1/10/2023
Irving Metal Finishers	TXRNEBP95	6/14/2023
Lone Star Container	TXRNER067	6/12/2023
McCormick	TXRNEW548	8/10/2023
Mohawk Labs	TXR05M766	8/22/2023
Multilayer Technologies	TXRNER069	5/4/2023
Netvia Group	TXRNEAF17	7/27/2023
Owens Corning	TXR05DB02	3/17/2023
Padrino Foods	TXRNEAJ90	6/15/2023
Premark Health Sciences	TXRNECA43	4/19/2023
Trader Joe's/World Class Distribution	TXRNECB45	6/19/2023
US Plating	TXRNEZ728	2/7/2023
USA Packaging	TXR05Q715	8/22/2023



Xochitl Inc	TXRNEAI42	6/20/2023
<b>Total Inspections</b>	<b>23</b>	

- B) Environmental Compliance staff inspected thirty-nine industries during the current reporting year. Inspection locations were selected at random using SIC codes listed in the Multi Sector General Permit.

Randomly Selected Industry Inspections Public Works/Water Utilities – Environmental Compliance October 2022– September 2023			
Business	Address	SIC Code	Inspection Date
Abbott Labs	1921 Hurd Dr	3845	5/11/2023
Airline Tech Reps	4831 W Royal Ln Suite A	4581	5/16/2023
ASC Engineered Solutions	1401 Valley View Ln Suite 150	4225	8/15/2023
ASI Sign Systems Inc	8181 Jetstar Suite 101	3993	6/19/2023
Astura Medical	4949 W Royal Ln	4225	5/8/2023
ATP Jet Simulation	2800 Valley View Ln, Suite 180-B	None Listed under TXR050000 MSGP	5/26/2023
Bluum - CDI Dallas	951 Valley View Suite 180	3571	6/14/2023
Budd Van Lines	8065 Tristar Dr	4225	8/10/2023
Builders FirstSource	8701 Sterling St Suite 180	2439	6/15/2023
C & G Plastics	1716 Parkside	2821	4/18/2023
Caesarstone	9500 N Royal Ln	3281	5/15/2023
Cenveo Worldwide	1011 W Royal Lane	2677	5/16/2023
Clean Harbors Environmental Services	2109 Reid Drive	4212	5/2/2023
Continental Battery	9500 N Royal Suite 150	4225	6/23/2023
Delta Steel Technologies	2204 Century Center Blvd	3549	5/3/2023
EcoServices	1725 Hurd Dr Suite 108	4581	7/6/2023
Exist Multifamily	8600 N Royal Ln Suite 150	2434	4/20/2023
Expeditors	1101 Valley View Ln Suite 100	4225	9/5/2023
FedEx Ship Center	5000 Hanson Dr	4213	9/21/2023
FreeFlight Systems	8080 Jetstar Dr Ste 100	3812	9/6/2023
Freight Crafters RS1 Crafting & Packaging	8904 Royal Ln	2441	5/17/2023
Harvest Ice	309 N Belt Line Rd Suite 105	2097	6/13/2023
Horizen Global Americas Inc	5355 FAA Blvd Suite 100	4225	5/24/2023
Ibanez AGM Countertops LLC	2200 Regency Dr	3281	5/18/2023
Inchon Food Co	845 N Belt Line	2099	5/17/2023
Irving Counter Top	101 N Irving Heights Dr	3281	9/6/2023
La Crème Coffee & Tea	3225 Premier Suite 100	2095	4/12/2023
Mentor Polymer Technologies	3041 Skyway Circle N	2822	11/30/2022
Nusil Technology	6125 W Campus Circle	2822	5/25/2023
Omega Environmental Technologies	1401 Valley View Lane Suite 100	3585	5/22/2023
Orbital Systems	3807 Carbon Rd	3663	5/9/2023
Pegasus Logistics Group	2800 Valley View Ln Suite 110	4213	9/21/2023
Progressive Laboratories	3131 Story Rd W	2834	7/20/2023
Reata Pharmaceuticals	2801 Gateway Dr Suite 150	2834	6/26/2023
Rubaroc LLC	8050 Jetstar Drive Unit 150	3069	5/1/2023
Shermco Industries	2425 E Pioneer Dr	3621	6/13/2023
Siegwerk	2030 Century Center Blvd Suite 16	2893	6/22/2023
Sonoco	5111 Frye Rd	2655	6/12/2023
Texas AirSystems	6029 Campus Circle Drive West Suite 100	3585	5/23/2023
<b>Total Inspections</b>	<b>39</b>		

## MINIMUM CONTROL MEASURE (MCM) 6: CONSTRUCTION SITE STORM WATER RUNOFF

## **I. CONSTRUCTION SITE RUNOFF ORDINANCE**

- A) The City of Irving Code of Civil and Criminal Ordinances Chapter 41, Section 41-62.1 requires an earthwork permit for any grading of property including sites smaller than one acre and all larger sites inside Irving do require erosion control of runoff during construction and until stabilization is completed.
- B) The city adopted the enhanced development/redevelopment guide, iSWM Design Manual for Site Development," spearheaded by the North Central Texas Council of Governments. The city has incorporated iSWM components within the Storm Water Management and Drainage Ordinance Section 35. Irving City Council passed and approved Section 35 ordinance change on October 27, 2017. The Storm Water Management Plan was changed thereafter to reflect the updated ordinance Section 35. The North Central Texas Council of Governments (NCTCOG) Public Works Council designated the City of Irving's status as a Certified Silver Integrated Storm Water Management (iSWM) Community on June 27, 2018.

## **II. REQUIREMENTS FOR STRUCTURAL AND NONSTRUCTURAL BEST MANAGEMENT PRACTICES**

The City of Irving requires erosion control measures on all construction sites to keep sediment from the sites reaching city streets or the MS4 and natural waterways. The City of Irving maintains a copy of the TCEQ Construction General Permit and requires contractors to follow these requirements. The city requires all site operators to address the control of site waste, litter (floatables), building materials, concrete truck washouts, chemicals, and sanitary waste.

## **III. INSPECTION OF CONSTRUCTION SITES AND ENFORCEMENT REQUIREMENTS**

The City of Irving issues written Notices of Violation and Stop Work Orders to construction projects not using and maintaining appropriate structural and/or nonstructural pollutant reduction measures as determined by comparison to site construction plans submitted to the City of Irving, the TCEQ Construction General Permit, or physical evidence that the installed measures are ineffective (i.e., mud in the public right-of-way, trash). The city has 3 NPDES Certified Stormwater Inspectors to enforce the city's construction site stormwater ordinances and the state and federal laws and regulations.

**Municipal Drainage Utility** – Performed 537 inspections on private development projects during the permit reporting year and issued 16 written Notices of Violation and 3 Stop Work Orders to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases.

In addition, 92 inspections were conducted on capital improvement projects. Deficiencies were documented in 15 cases and resolved under the direction of the engineering construction inspector with oversight of the project. Two Notices of Violation were issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases. Detailed records of construction site inspections and enforcement issued are included in Appendix F.

**Inspections Department** – Conducted 29,452 total trade inspections that included an erosion and sedimentation controls check. Erosion inspections are performed at every building inspection. If there is a problem, the inspection will fail. Once everything has been corrected, the inspection gets called in for a re-inspection. This continues to happen until there is full compliance or an "approval" of the inspection. Compliance was attained in all cases.



#### IV. EDUCATION AND TRAINING FOR CONSTRUCTION SITE OPERATORS

Capital Improvement Program - MDU		
Continuing Education and Training Opportunities and Attendance		
<u>Date</u>	<u>Event</u>	<u>Number of Attendees</u>
10/11-10/12 2022	IECA 2022 Texas Regional Conference	3
10/26/2022	LCA Environmental	30
12/5/2023	Running Bear Park Grow Zone Event	10
1/11-1/12 /2023	NCTCOG SWPPP Course	1
1/25/2023	Rock Hardscape Polymer Manholes	35
1/30/2023	NCTCOG Meeting with TCEQ SW to Discuss Monitoring Plan	4
1/30/2023	Storm Drain Pipe Rehab Program	20
2/22/2023	Become More Competitive and Efficient with Drone Surveying	2
3/13/2023	Citywide Flood Risk Identification- Pape-Dawson Engineers	24
3/21/2023	TMDL Stormwater & Wastewater Technical Subcommittee	2
5/4/2023	TMDL Regional Case Studies & Roundtable Webinar	3
5/16-5/18 2023	TCEQ Environmental Trade Fair and Conference	2
6/7/2023	NCTCOG Pollution Prevention Roundtable	3
6/20/2023	Illegal Dumping Course: Principles of Enforcement and Abatement	3
7/17/2023	SWM Subcommittee	2
8/3/2023	TMDL Water Quality Modeling Webinar	4
8/11/2023	North Texas FAA Remote ID Workshop	3
8/17/2023	Esri   Irving (Imagery)	4
8/30-8/31 2023	StormCon Conference Dallas, TX	7
9/12-9/15 /2023	TFMA Technical Summit	9

#### V. NOTIFICATION OF REQUIREMENTS TO CONSTRUCTION SITE OPERATORS

The city required developers and engineers submitting development or building plans that may potentially fall within the scope of the TPDES Construction General Permit (CGP), TXR150000, to provide a copy of their TPDES "Notice of Intent (NOI)," Storm Water Pollution Prevention Plan (SW3P) and, subsequent TPDES "Notice of Termination (NOT)" to the Capital Improvement Program/Engineering Department.

The city required copies of Construction Site Notices or Notices of Intent for all subdivisions more than one acre prior to the issuance of three-way contracts to build publicly maintained streets, water, sanitary sewer and storm sewer and other drainage systems. The city received 14 construction plans for privately developed projects (with city-maintained infrastructure) that required the submittal of a Notice of Intent to the state during the reporting year. In addition, the city received plans for 13 Construction Site Notices for smaller capital improvement projects during the reporting year. See Appendix E for a detailed summary of these projects.

#### VI. LIST OF CONSTRUCTION SITES

The City of Irving permitting process regulates earth-disturbing activities and is supplemented by public

education events to inform and update homebuilders and developers about the requirements of the TPDES Construction General Permit (CGP), TXR150000. The city required all earth-moving operations to obtain a grading permit if they had not applied for a building permit prior to the commencement of excavation operations.

The City of Irving maintains a list of construction sites that discharge into the MS4 and have been issued either a NPDES or TPDES permit. This list is attached in Appendix E.

## **VII. STATUS OF COMPLIANCE WITH NEW REGULATIONS**

The City of Irving reviews and requires grading plans for all construction sites including lots smaller than one acre.

### **MINIMUM CONTROL MEASURE (MCM) 7: PUBLIC EDUCATION, OUTREACH, INVOLVMENT AND PARTICIPATION**

#### **I. PUBLIC EDUCATION AND OUTREACH**

The City of Irving public education and outreach program encourages stewardship of the city's surface water resources by raising awareness of the issues, providing information on best management practices that may be used to improve water quality, and providing opportunities for the public to provide meaningful input into the program. The education and outreach program promotes, publicizes, and facilitates public reporting of spills, fish kills, illicit discharges, improper disposal of materials, and the management and disposal of HHW. The program also focuses on the proper use, application, and disposal of pesticides, fertilizers, and herbicides, pet waste management, and yard waste management. It also encourages citizens to report blocked or broken storm drain pipes and other infrastructure to prevent flooding. The program is targeted toward various audiences including children, residents, businesses, non-governmental entities, commercial and industrial facility operators/owners, and city staff.

The City of Irving is also a member of the North Central Council of Governments Public Education Task Force. NCTCOG's annual report for Public Education activity can be reviewed in Appendix M.

#### **Proper management and disposal of used oil and household hazardous waste**

The Solid Waste Services Department provides residential curbside pickup of used motor oil, antifreeze, transmission fluid and a variety of household hazardous wastes via a Special Waste Collection service. Residents are asked to set their materials for special collection near their regular pickup location refuse crews collect special waste curbside and place those items into special boxes on their refuse vehicles. These items are then discarded separately from waste. City participation in the Dallas Area Household Hazardous Waste Network provides all Irving residents with a convenient, efficient, and environmentally friendly way to dispose of household hazardous wastes such as pesticides, herbicides, fertilizers, auto fluids, batteries, light bulbs, paint, pool chemicals and other household chemicals at the Dallas County Home Chemical Collection Center. The city also conducts home chemical collection events throughout the year to allow residents the opportunity to dispose of the items accepted at the permanent facility.

#### **Proper use application and disposal of pesticides**

Irving residents and business owners are presented with a variety of opportunities to learn about the proper use, application and disposal of pesticides, herbicides and fertilizers through year-round course offerings, presentations at festivals and community events and participation in the Dallas Area Household Hazardous Waste Network.

#### **The City of Irving Promotes Low-Maintenance Landscaping Practices**

**Environmental Stewardship** - During this reporting period, the city hosted gardening and composting classes where low-maintenance, low-PHF (pesticides, herbicides and fertilizer) landscapes were promoted.

DATE	2023 CLASSES	PARTICIPANTS
1/21/2023	Composting 101	7
2/2/2023	Spring Vegetable Gardening	3
2/11/2023	Composting 101	1
2/15/2023	Urban Wetlands, Waterfowl, and Why They're Important	2
2/25/2023	Composting 101	1
3/6/2023	Monarch Waystations for North Texas	12
3/15/2023	Spring Gardening	42
3/11/2023	City of Irving's Grow Zone Program	5
3/21/2023	Composting 101	9
4/12/2023	Organic Lawn Care	5
4/22/2023	EarthX	N/A
5/25/2023	Mushroom Cultivation	2
6/17/2023	Freshwater Fish, Local Wildlife, and Conservation at Home	1
7/12/2023	Irving Trees	5
8/2/2023	Zen and the Art of Gardening with our Local Soils	5
8/9/2023	Feed the Pollinators: A Guide to Establishing a Monarch Waystation	11
<b>TOTAL</b>	<b>16</b>	<b>111</b>

**Water Utilities** - During this reporting period, the city hosted a variety of events at which low-maintenance landscaping practices were emphasized.

**10/4/2022 - National Night Out: Touch a Truck**

Water Utilities staff demonstrated a camera truck and had 4 staff available to discuss the importance of water and conservation of this precious resource including following irrigation guidelines and planting native and adaptive landscape species. Additionally, another staff member met with an HOA to demonstrate effective and conservative irrigation techniques. (approx. 250 participants)

**10/27/2022 - Waterside HOA Block Party**

Water utilities staff distributed candy with attached water conservation messaging to children. Staff also spoke with parents about the importance of following the city's irrigation guidelines and proposed ideas about planting native and adaptive landscape species for residents to conserve water. (approx. 75 participants)

**11/12/2022 - Porters: Unite for Troops**

This very popular and engaging event involved distribution of materials and conducting discussions regarding understanding water distribution and options for conserving water, among which appropriate landscaping and irrigation were discussed. (approx. 1000 participants)

**12/17/2022 - Photos with Santa**

Water Utilities staff hosted a booth at this Parks and Recreation sponsored event. Water conservation messaging was distributed to residents via brochures specifically about good irrigation practices and how residents can conserve water by using native species in their landscaping. (approx. 200 participants)

#### **2/4/2023 - Mardi Gras**

Water utilities staff discussed and distributed water conservation material about the city's irrigation guidelines and how using native plants in landscaping can be an effective way to conserve water. (approx. 50 participants)

#### **3/4, 3/8, and 3/25/2023 - Irrigation 101 Course**

Staff taught a detailed course over irrigation systems basics, covering topics like how to implement cycle/soak watering, what native plants are most water efficient for North Texas, and how to make minor irrigation repairs. (approx. 40 participants)

#### **4/6/2023 – Thomas Haley Career Day**

Staff presented many careers in the water utilities industry, but specific emphasis was put on irrigation because the Irving irrigator was presenting information on his career. As well how his career is important to conserving water by following Irving's irrigation guidelines. (approx. 90 participants)

#### **4/19/2023 - Michaels Earth Day**

Water Utilities staff hosted a booth at this Michaels corporate sponsored event. The focus of messaging at this event was educating the public on how irrigation systems work via an irrigation system display with a working controller to provide examples of common problems and how to troubleshoot them. (approx. 350 participants)

#### **4/29/2023 - Arbor Day**

Conservation information on following the city's irrigation guidelines was emphasized at this public event. Parents were offered irrigation schedule magnets and importance was placed on good irrigation practices. (approx. 250 participants)

#### **5/11/2023 - Britain Elementary Career Fair**

Staff presented on many careers in the water utilities industry, but specific emphasis was put on irrigation because the Irving irrigator was presenting information on his career. He emphasized how his career is important for conserving water by helping Irving's residents follow Irving's irrigation guidelines. (approx. 125 participants)

#### **6/21, 6/28, and 7/7/2023 - Recreation Center Summer Camps**

Fun demonstrations and learning highlighted these three summer camp sessions including a water conserving relay and important information on the city's water distribution system. Time was expressly devoted to following irrigation guidelines and using water conserving plantings to conserve water. (approx. 120 participants)

#### **7/4/2023 – Sparks and Stripes**

With July being Smart Irrigation Month, staff emphasized appropriate irrigation practices and guidelines including Time-of-Day restrictions and Cycle-Soak watering. Ensuring a healthy landscape with twice-weekly watering and native and adaptive plantings were key topics. (approx. 15,000 participants)

#### **7/22/2023 - Where Irving Grows**

July being Smart Irrigation Month, staff emphasized taking part in the Irving Irrigation Checkup Program to make their landscaping more water efficient. In addition, native and adaptive plantings were given away and staff gave info on how to efficiently irrigate newly established plants. (approx. 250 participants)

#### **9/23/2023 - Trinity Trash Bash**

The Water Utilities Department supplied drinking water and information on smart irrigation practices at this event focused on cleaning up green spaces in Irving. (approx. 450 participants)

**Parks** – The city promoted low-maintenance landscaping during the past reporting period by leading by example. The city developed, maintained, and promoted native plant demonstration gardens, median plantings, public building displays, and pocket parks throughout the jurisdiction. Suggested uses and types of native plants were viewable by the public at the following locations:

**Facility grounds**

Criminal Justice Center, 305 N. O'Connor Road  
Heritage Senior Center, 200 S. Jefferson St.  
Irving Civic Center Complex, 801-845 W. Irving Blvd.  
Irving Animal Care Campus, 4140 Valley View Lane  
Jackie Townsell's Bear Creek Heritage Center, 3925 Jackson St.  
Las Colinas Service Center, 5964 Riverside Drive  
South Irving Library, 601 Schulze Road  
Valley View Municipal Complex, 333 Valley View Lane  
Veterans Memorial Park, 644 W. Rock Island Road  
West Irving Library, 4444 W. Rochelle Road

**Parks**

Cimarron Family Aquatic Center, 199 Red River Trail  
Cimarron Family Recreation Center, 201 Red River Trail  
Birds Fort Park, 5756 Riverside Drive  
Centennial Park, 444 W. Second St.  
Cottonwood Creek Park, 4051 N. Story Road  
Dr. George Susat Meadow, 1900 N. MacArthur Blvd.  
Fritz Park, 312 E. Vilbig Road  
Jaycee Park, 1975 Puritan Drive  
Lee Park, 3000 Pamela Drive  
Lively Park, 909 N. O'Connor Road  
Mustang Park, 2223 Kinwest Parkway  
Northlake Ranch Park, 1317 Ranch Trail  
Northwest Park, 2800 Cheyenne St.  
Rose Meadows Park, 1505 Rose St.  
Senter West Park, 901 S. Senter Road  
Shady Grove Trail Park, 719 Vilbig St.  
Southwest Park, 2800 W. Shady Grove Road  
Thomas Jefferson Park, 1201 Hidden Ridge  
Towne Lake Park, 800 Esters Road  
West Irving Aquatic Center, 3101 Conflans Road  
West Park, 530 Davis Drive

**Pocket Parks**

Limetree Park, 1429 Limetree Lane  
O'Connor/Grauwyler Pocket Park, 1460 N. O'Connor Road  
Post Oak Park, 1014 W. Sixth St.  
MacArthur Linear Park (State Hwy 183 to Rochelle Road on west side)  
MacArthur Pocket Park at Grauwyler (Southwest corner)  
O'Connor Linear Park (State Hwy 183 to Rochelle Road on east side)



Story Road – State Hwy 183 to Rochelle Road

**Medians**

Beltline Road – from Hunter Ferrell Road to Rock Island Road

Hunter Ferrell Medians – MacArthur Blvd. to Story Road

Irving Blvd – Story Road to Rogers Road

MacArthur Boulevard – south city limits to Rochelle Road and Janelle Drive to Gloucester Court

Northgate Medians – Carl Road to Tom Braniff Drive

To supplement what was “on the ground,” the city distributed approximately 50 physical copies of our “produced in-house” native plant guide, Irving’s Finest 50, at resident request. Visitors to our website can also download a copy to view on their computer or print at home.

**Stormwater Education:** The Drainage Program Specialist is responsible for all education activities (internal and external) in support of the Stormwater Management Program. A total of 13 events occurred in this reporting period [see table and figure].

<b>Stormwater Education &amp; Outreach Fiscal Year 2022-2023</b>			
<b>Name of Event</b>	<b>Platform</b>	<b>Audience</b>	<b>Education &amp; Outreach Method</b>
<b>Fusion Fest</b>	<b>In-Person</b>	<b>External</b>	<b>Presentation</b>
<b>West Irving Creek Public Meeting</b>	<b>In-Person</b>	<b>External</b>	<b>Public Meeting</b>
<b>UNT Teacher for a Day - Stormwater</b>	<b>In-Person</b>	<b>External</b>	<b>Presentation</b>
<b>J.O. Davis Career Day</b>	<b>In-Person</b>	<b>External</b>	<b>Presentation</b>
<b>Environmental Career Symposium</b>	<b>Online</b>	<b>External</b>	<b>Presentation</b>
<b>Thomas Haley Elementary Career Day</b>	<b>In-Person</b>	<b>External</b>	<b>Presentation</b>
<b>Arbor Day</b>	<b>In-Person</b>	<b>External</b>	<b>City Event</b>
<b>Fusion Festival</b>	<b>In-Person</b>	<b>External</b>	<b>City Event</b>
<b>Texas SmartScape</b>	<b>Media Post</b>	<b>External</b>	<b>Media Posting</b>
<b>Riparian Buffer Restoration &amp; No Mow Areas</b>	<b>Media Post</b>	<b>External</b>	<b>Media Posting</b>
<b>TJ Lee Elementary School Career Day</b>	<b>In-Person</b>	<b>External</b>	<b>Presentation</b>
<b>Fourth of July</b>	<b>In-Person</b>	<b>External</b>	<b>City Event</b>
<b>City of Irving Health Fair</b>	<b>In-Person</b>	<b>Internal</b>	<b>City Event</b>

**Storm Drain Marking Program**

The Capital Improvement Program Department’s Storm Water Public Education and Outreach applied “Only Rain Down the Storm Drain” metal markers to 100 storm drain inlets. Drain Markers were also placed in areas where illicit discharges and spills were found. The Storm Drain Marking Program is a hands-on volunteering program for those who are interested in educating the public about stormwater pollution prevention.

## **II. PUBLIC INVOLVEMENT AND PARTICIPATION**

### **A) Public Reporting of Illicit Discharges Including Floatables into the MS4**

The City of Irving promotes and participates in the North Central Texas Illegal Dumping Hot Line & Public Awareness Program; a 16-county regional effort supported and funded by the TCEQ and the NCTCOG member agencies. This program provides a 24-hour a day telephone hot line (1-888-335-DUMP) to facilitate public reporting of illicit discharges or improper disposal of materials plus brochures and a variety of promotional items to distribute to the public.

The Capital Improvement Program received 286 resident concerns over the fiscal year via phone calls, an online form on the website, and email communication. Approximately 15% of these were related to floatable trash and debris.

Additionally, the Capital Improvement Program Department receives concerns related to right of way litter cleanup and retrieval of abandoned shopping carts. During this permit reporting year, October 1, 2022 through September 30, 2023, there were 92 concerns.

To improve customer service and facilitate reporting of corridor litter and shopping cart issues, the department publicizes and maintains a 24-hour reporting hotline phone number, (972) 721-5487, for external customers. Employees call the Eyes on Irving hotline, (972) 721-7777, to report these issues. Eyes on Irving is an internal program for employees to report issues found while driving around Irving. These may include abandoned cars, abandoned grocery carts, bush/bulky items, graffiti, high grass/weeds, minor flooding, potholes, trash/overloaded dumpsters, and other minor problems.

### **B) Public Involvement in the Removal of Floatables from the Floodplain and Right-of-Ways**

The City of Irving, as an affiliate of Keep Texas Beautiful (under the name of Keep Irving Beautiful), participates in well-publicized, well-attended activities throughout the year, as well as those promoted nationally by Keep America Beautiful, and statewide by Keep Texas Beautiful.

#### **Great American Cleanup/Don't Mess with Texas Trash-Off – April 1, 2023**

The Keep America Beautiful-sponsored Great American Cleanup (GAC) is a nationwide program which typically takes place from March 1 through May 31, and includes Keep Texas Beautiful's signature event, the Don't Mess with Texas Trash-Off. Irving held its event at Trinity View Park on April 1, with 215 volunteers giving 645 hours and collecting 1,200 pounds of trash and 1,120 pounds of recyclables.

#### **32<sup>nd</sup> Annual Trash Bash – September 23, 2023**

The Trash Bash is associated with Keep Texas Beautiful's Fall Sweep Program and has been held in conjunction with National Public Lands Day for the past 11 years. Irving's event was held at T.W. Richardson Grove Park on September 23, with 428 volunteers giving 1,284 hours and collecting 1,680 pounds of trash and 660 pounds of recyclables.

#### **Adopt-A-Spot Program (year-round)**

The Adopt-A-Spot program urges individuals or groups to "adopt-a-spot" and to keep it litter-free for a minimum of one year and report their activities to KIB on a monthly basis. Irving had 96 active locations at the end of the reporting period. In the 2022-2023 reporting period, 5,737 volunteers worked at the Adopt-a-Spot locations, for a total of 6,220 reported hours and a collection of an estimated 2,355 bags of trash and 1,131 bags of recyclables over the course of the year. The value of the time given by these self-directed volunteers at the national rate of \$31.80 per hour (Source: Independent Sector, 2023) is approximately \$197,796. The adopted spots are



sponsored by individuals, families, companies and organizations in every economic and geographic sector of Irving. They are very popular with youth groups, schools, churches, neighborhood associations and corporate service groups.

#### **Green Events (year-round)**

Based on a past Keep Texas Beautiful initiative, the Green Events Program involves collaborations with city departments, schools, neighborhood associations, faith groups, large and small businesses, and all types of organizations in the community to help make their events more environmentally friendly. KIB supplies recycling containers and signs, banners and educational materials, and often provides volunteers for these events. In 2022-2023, KIB participated in two Green Events, reaching an estimated audience of 450 people. During these events, 20 pounds of trash and 40 pounds of recyclables were collected.

#### **Tree Planting Events**

KIB, in collaboration with the City of Irving Parks Department, sponsored or participated in five tree planting events during the 2022-2023 year. Funding for the purchase of trees came from several sources, including grants or donations received from Northrop Grumman, Mentor Texas, Verizon, and the Dallas Everest Lions Club. A total of 39 trees were planted, with 29 volunteers giving 68 hours of service.

### **III. EVALUATION OF THE EFFECTIVENESS OF THIS MCM**

During this reporting period, the City of Irving evaluated the effectiveness of this minimum control measure. The large amount of public participation in our floatables removal program makes people think about where the trash is coming from and less likely to be litterers themselves. The fats, rags, oils, and grease program (FROG) is judged a success because the number of sanitary sewer overflows does not spike around the Thanksgiving and Christmas holidays. The high participation in Irving's Household Hazardous Waste program also points to a successful program. The overall Public Education and Outreach/Public Involvement and Participation is considered an effective and successful program.

## **MINIMUM CONTROL MEASURE (MCM) 8: MONITORING EVALUATION AND REPORTING**

### **I. DRY WEATHER SCREENING PROGRAM**

In the period from October 1, 2022 to September 30, 2023, a total of 190 outfalls were inspected for discharges. Of these, 21 were found to have flow. The sources of flows were investigated using expert knowledge and GIS maps of the MS4 and found to be due to groundwater, irrigation runoff, and one newly constructed water line being flushed. All outfalls were marked with GPS and photographs taken of the outfalls as well as upstream and downstream photos.

<b>Dry Weather Field Screens Public Works/Water Utilities – Environmental Compliance October 2022 – September 2023</b>	
Number Performed	190
Number with Flow	21
Flow due to:	
Groundwater	19
Irrigation	1

Samples of flows were collected and analyzed for the following parameters:

Parameter	Reporting Units
Ammonia	parts per million (ppm)
Chlorine	parts per million (ppm)
Copper, total	parts per million (ppm)
Detergent	parts per million (ppm)
pH	Standard Units (S.U.)
Phenols	parts per million (ppm)

## II. WET WEATHER SCREENING PROGRAM

The City of Irving, using mobile wet weather samplers, monitored eight storm events during the permit reporting year. We screened 15 sites on the following receiving waters: Cottonwood Creek, Dry Branch, West Irving Branch, Bear Creek, Estelle Creek, Delaware Creek and Hackberry Creek. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site.

The following chemical analyses were performed on grab samples: hardness, pH, temperature, DO, DO%, conductivity, grease and oil, e. coliform, and fecal streptococcus. The following testing was performed on composite samples: BOD, COD, Nitrite+Nitrate-Nitrogen, TKN, Phosphate (total), Ortho-phosphate, TDS, TSS, Cadmium (total), Copper (total), Chromium (total), Nickel (total), Lead (total), Zinc (total), Atrazine, Ammonia Nitrogen, and Arsenic. The following table provides the dates and locations where the samples were collected.

Storm Event Date	Site Number	10/24/2022	10/28/2022	1/24/2023	2/14/2023	3/24/2023	5/19/2023	7/16/2023	9/14/2023	Totals
Receiving Water/Site Sampled										
West Irving Branch/MacArthur	7			*	*					2
West Irving Branch/Briery	2	*	*							2
Delaware Creek/Maple	4	*	*							2
Delaware Creek/183	9			*	*					2
Delaware Creek/Sowers	3	*	*							2
Cottonwood Creek/Story	10					*	*			2
Cottonwood Creek/114	11					*	*			2
Estelle Creek/Northgate	13					*	*			2
Estelle Creek/Rochelle	12					*	*			2
Hackberry Creek/Colwell	15							*	*	2
Hackberry Creek/Gateway	14						*	*		2
Dry Branch/Conflans	1	*	*							2
Dry Branch/Pocatello	6			*	*					2
Bear Creek/Shady Grove	5		*		*					2

Bear Creek/MacArthur	8			*	*					2
Total Number of Sites Sampled	15	4	5	4	5	4	5	2	1	30

The samples were analyzed for the following parameters:

Sampling Parameters Employed	
Parameter	Reporting Units
Ammonia Nitrogen, total	mg/L (milligrams per liter)
Arsenic	mg/L (milligrams per liter)
BOD - 5 day	mg/L (milligrams per liter)
Cadmium, total	mg/L (milligrams per liter)
Chromium, total	mg/L (milligrams per liter)
COD	mg/L (milligrams per liter)
Conductivity	µS/cm (microsiemens per centimeter)
Copper, total	mg/L (milligrams per liter)
Atrazine	µg/L (microgram per liter)
Dissolved Oxygen	mg/L (milligrams per liter)
Dissolved Oxygen Percent	% (percent)
E. Coli, MPN Q-tray	MPN/100mL (Most Probable Number per 100 milliliters)
Fecal Streptococcus	Col/100mL (colonies per 100 milliliters)
Grease & Oil	mg/L (milligrams per liter)
Hardness	mg/L (milligrams per liter)
Lead, total	mg/L (milligrams per liter)
Nickel, total	mg/L (milligrams per liter)
Nitrate+Nitrite-Nitrogen	mg/L (milligrams per liter)
Ortho-Phosphate	mg/L (milligrams per liter)
pH	S.U. (standard units)
Phosphate, total	mg/L (milligrams per liter)
TDS	mg/L (milligrams per liter)
Temperature	°C (degree Celsius)
TKN	mg/L (milligrams per liter)
TSS	mg/L (milligrams per liter)
Zinc, total	mg/L (milligrams per liter)

The City of Irving is continuing the accumulation of wet weather screening data. Data collected during this permit period was included in Appendix J.

### III. INDUSTRIAL AND HIGH-RISK RUNOFF MONITORING PROGRAM

The TCEQ has renewed the Multi-Sector General Permit (MSGP, TXR050000) for industrial facilities with an effective date of August 14, 2021. The Hunter Ferrell Landfill has renewed its authorizations by submitting a renewal Notice of Intent (NOI) using TCEQ's online e-permitting system STEERS. The new TPDES multisector storm water general permit number for the site is TXR05M662. The latest sampling event was conducted in October 2022. The sampling results are attached.

In September 2021, the Stormwater Pollution Prevention Plan for the City of Irving Hunter Ferrell Landfill was developed to satisfy the Permit requirements listed in the Texas Pollutant Discharge Elimination System (TPDES) Multi Sector General Permit (MSGP) TXR050000 for Industrial Activities.





#### IV. WET WEATHER CHARACTERIZATION PROGRAM

##### **North Central Texas Regional Storm Water Monitoring Program Consultant Monitoring Program Assistance for Fiscal Year 2019 (FY19) North Central Texas Council of Governments (NCTCOG)**

NCTCOG has coordinated the implementation of a cooperative Regional Storm Water Monitoring Program on behalf of the region's seven largest cities (Arlington, Dallas, Fort Worth, Garland, Irving, Mesquite and Plano), and the North Texas Tollway Authority (NTTA), and with their support through the Regional Storm Water Monitoring Task Force ("Task Force"). The Regional Storm Water Monitoring Program, formally endorsed by the Texas Commission on Environmental Quality (TCEQ), is designed to assist participating entities comply with the TPDES (Texas Pollutant Discharge Elimination System) storm water monitoring requirements, including wet weather monitoring, for each individual permit holder, while providing a more efficient, consistent, and cost-effective regional effort.

The NCTCOG and the City of Irving ("Participant"), collectively referred to as "Parties," have executed an Interlocal Agreement that establishes the structure through which participating entities have agreed to participate in the Fourth Permit Term of the Regional Wet Weather Characterization Program, operating from October 1, 2017-September 30, 2022.

#### V. FLOATABLES MONITORING

The floatables monitoring program is described in MCM1 II) Floatables. A description of the floatable trash that is removed at the source (i.e. street ROW) before it reaches the MS4 and removal of floatables in the streams and creeks after they enter the MS4 is detailed. A nationwide recognized litter survey is detailed below which describes how well Irving's floatable abatement program is working on street rights of way.

##### **Community Appearance Index Survey – October 7, 2022**

The Community Appearance Index (CAI), formerly known as the Litter Index (LI), is a field survey that is conducted in fulfillment of one of the requirements for KIB's ongoing certification and President's Circle status with Keep America Beautiful. The LI was instituted by KAB in 2001 and changed to the CAI in 2010. Observations of the amount of litter were made by two trained board member volunteers and two KIB staff members over a four-hour period. The survey is conducted along nine four-segment survey routes across the city. Taken together, the areas observed approximate the litter accumulations in Irving. Scores are assigned to each area surveyed based on standardized values for "No Litter = 1", "Slightly Littered" = 2, "Littered" = 3, and "Extremely Littered" = 4.

Litter Index scores for the last five years were: 1.21 in 2018, 1.26 in 2019, 1.39 in 2020, 1.08 in 2021, and 1.26 in 2022. The most recent score indicates an overall improvement in ambient levels of observable community litter, down 34% as compared to the initial 2001 baseline score of 1.90.

2018	2019	2020	2021	2022
1.21	1.26	1.39	1.08	1.26
-36%	-34%	-37%	-43%	-34%

## **APPENDICES**

### **APPENDIX A.**

#### **SUMMARY OF IDENTIFICATION OF ANY WATER QUALITY IMPROVEMENTS, DEGRADATIONS AND PROGRESS TOWARD ANY MEASURABLE GOALS OR MEASURED REDUCTIONS IN POLLUTANTS**

No water quality degradations or improvements to the permittees and co-permittees MS4s receiving waters were measured or quantified during the reporting period October 1, 2022 to September 30, 2023. As an actively participating member of the North Central Texas Council of Governments Regional Monitoring Program however, efforts are ongoing to accumulate enough of the appropriate data to do so. Until that time, Irving has implemented plans of action to reduce the discharge of pollutants to the waters of the state and to qualitatively improve those receiving waters. More attention is being placed on bacteria as part of the Regional I Plan for 17 Total Maximum Daily Loads (TMDLs) for bacteria in the Greater-Trinity River Region. These actions positively impacted the quality of Irving's receiving waters and included the following programs:

- Within the City of Irving, the Capital Improvement Program department spent approximately 32,000 hours inspecting, cleaning, clearing, and maintaining structural controls removing more than 697,000 pounds of debris from these areas in the process.
- Solid Waste Services Department collected 134,560 pounds of litter from rights of way on entrance roads surrounding the Hunter Ferrell Landfill.
- Keep Irving Beautiful provided several city trash cleanup events in which 1,133 volunteers removed 14,467 pounds of trash and debris from parks and adjacent waterways.
- The Dallas County Utility and Reclamation District dedicated two full-time employees and one truck to removing floatables from district waterways and preventing pollutants from entering the Elm Fork of the Trinity River. The district spent approximately 3,840 hours inspecting, cleaning, clearing, and maintaining levees, removing more than 300 cubic yards (27.08 tons) of debris and silt from DCURD structural controls.
- Irving Flood Control District, Section I had a crew of two employees to inspect and remove floatables from district waterways and levees on a daily basis in order to prevent pollutants from entering the Elm Fork of the Trinity River. The district spent approximately 480 man-hours inspecting, clearing, maintaining levees, and removing an estimated 180 cubic yards of debris from structural controls totaling 13.62 tons.
- The Irving Flood Control District, Section III documented 1,920 man-hours inspecting, clearing, and maintaining levees. The district removed 240 cubic yards of debris weighing 29.94 tons from waterways.
- Street sweepers expended 5,257 man-hours sweeping city streets. 10 complete sweeps of all major thoroughfares (approximately 9,153 miles of roadway surface) were completed. The Streets Division does not weigh street sweeper spoils.
- Code Enforcement officers responded to 1,764 complaints for trash, litter, dumping, stagnant water and illicit discharges that if left unabated could have entered and polluted the MS4. Code Compliance officers issued 1,764 Notice of Violations and 50 citations.
- Environmental Compliance inspectors performed 23 inspections on high-risk or industrial facilities in the Pretreatment Program verifying their compliance with storm water best management practices and another 7 randomly selected inspections of non-permitted industrial inspections.



- The City of Irving awarded projects, repaired, or replaced 10,190 feet of sanitary sewer lines during the reporting year to prevent sewer breaks and possible inflows into drainage-ways and receiving waters. An additional 852,292 linear feet of sanitary sewer services and mains cleaned. In addition, 56 manholes were rehabbed or repaired.
- The city spent approximately \$6,880,968.00 on capital projects for channel and levee repairs, dredging, capacity improvements, erosion control and removal of floatables. The city allocated \$541,600 to assist the co-permittees in dredging district canals, lakes, and waterways to maintain proper depths improving water quality by removing those sediments as a source of pollutants to Irving's receiving waters.
- Erosion Control Inspectors performed 408 inspections on private development projects during the permit reporting year and issued 18 Notices of Violation and 4 Stop Work Orders to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases.
- In addition, 159 erosion control inspections were conducted on capital improvement projects. One Notice of Violation and zero Stop Work Orders were issued to construction site operators for failure to use and maintain appropriate pollutant reduction measures or other aspects of their stormwater pollution prevention plan. Compliance was attained in all cases. Detailed records of construction site inspections and enforcement issued are included in Appendix F.

**APPENDIX B  
ANNUAL EXPENDITURES**

<b>DALLAS COUNTY FLOOD CONTROL DISTRICT NO. 1 GENERAL FUND</b>			
<b>Year ending June 30, 2023</b>			
<b>REVENUES</b>			
Property Taxes			1,651,698
Penalties and Interest			7,651
Investment Income			72
Other income			0
Tax Refunds			(11,799)
	<b>Total</b>		<b>1,647,622</b>
<b>DISBURSEMENTS</b>			
Accounting	28,436		
Wages	88,900		
Audit	25,480		
DCAD Budget Allocation	33,508		
Contract Labor	5,800		
Directors' Fees	10,800		
Engineering	45,747		
Insurance	75,783		
Legal	46,889		
District Maintenance	23,649		
Memberships	695		
Bank Fees	535		
Office Other	3,342		
Telephone	5,971		
Pump Station Electricity	5,969		
Rent	12,483		
Tax Administrator	21,200		
Taxes Payroll	6,821		
Miscellaneous	56		
Fixed Asset Acquisition	0		
	<b>Total</b>		<b>442,064</b>
<b>EXCESS REVENUES OVER DISBURSEMENTS</b>			<b>1,205,558</b>

**DALLAS COUNTY FLOOD CONTROL DISTRICT NO. 1 ANNUAL EXPENDITURES DEBT SERVICE FUND**

**Year ended June 30, 2023**

**REVENUES**

<b>Property Taxes</b>	<b>3,556,065</b>
<b>Penalties and Interest</b>	<b>31,533</b>
<b>Investment Income</b>	<b>9,207</b>
<b>Tax Refunds</b>	<b>(27,741)</b>
	<b>3,569,064</b>

**DISBURSEMENTS**

<b>Debt Service</b>	<b>2,481,500</b>	
<b>Paying Agent Fees</b>	<b>40</b>	<b>2,481,540</b>
<b>EXCESS REVENUES OVER DISBURSEMENTS</b>		<b>\$1,087,524</b>

**APPENDIX B  
ANNUAL EXPENDITURES**

<b>DALLAS COUNTY UTILITY AND RECLAMATION DISTRICT ANNUAL EXPENDITURES BY FUND</b>		
<b>Year Ended September 30, 2023</b>		
<b>Fund Type</b>	<b>Fund</b>	<b>Total Expenditures</b>
<b>Governmental</b>		
	General	\$8,371,150
	Special Revenue	180,781
	Debt Service	24,866,750
	Capital Projects	479,608
	Service Center	338,352
<b>Enterprise</b>		
	Leased Properties	73,778
	Water Supply	3,056,310
<b>Internal Service</b>		
	Self-Insurance	318,247
	Vehicle Maintenance	236,502
<b>Total All Funds</b>		<b>\$37,921,478</b>

**APPENDIX B  
ANNUAL EXPENDITURES**

<b>IRVING FLOOD CONTROL DISTRICT SECTION I OPERATING &amp; MAINTENANCE BUDGET COMPARISON WITH EXPENDITURES October 2022 – September 2023</b>		
<b>Unaudited</b>		
	<b>Budget</b>	<b>Expenses</b>
Administrative	\$91,233	\$87,839
Salaries and Wages	12,600	6,000
Meeting Expenses	4,563	2,173
Utilities	56,638	14,391
Legal Fees	40,000	4,640
Audit Fees	7,775	7,775
Tax Appraisal/Collection	9,706	6,229
Engineering Fees	29,792	17,893
Maintenance and Operations	850,564	669,615
Mowing	28,000	31,500
Insurance	2,500	2,161
Miscellaneous	4,773	1,982
Tax Increment	56,620	56,620
Bank Fees	1000	0
<b>TOTAL</b>	<b>\$1,195,754</b>	<b>\$ 908,824</b>

<b>IRVING FLOOD CONTROL DISTRICT SECTION I CAPITAL PROJECT EXPENSES October 2022-September 2023 (Unaudited)</b>	
	\$ 0
<b>TOTAL ALL EXPENDITURES 2018-19</b>	<b>\$ 0</b>

**APPENDIX B  
ANNUAL EXPENDITURES**

<b>IRVING FLOOD CONTROL DISTRICT, SECTION III</b>	
<b>OPERATING BUDGET SUMMARY OF ANNUAL EXPENDITURES</b>	
<b>October 2022-September 2023</b>	
<b>GENERAL OPERATING EXPENDITURES</b>	
Administrative Expenses	\$188,624
Salaries and Wages	9,000
Mowing	35,432
Insurance	7,860
Utilities	141,600
Legal	10,000
Engineering	45,000
Audit Fees	7,775
Tax Appraisal and Collections	19,375
Maintenance and Repairs	1,574,207
Other Fees	8,800
<b>Total General Operating Expenditures</b>	<b>\$2,047,673</b>
<b>IRVING FLOOD CONTROL DISTRICT, SECTION III</b>	
<b>CAPITAL PROJECT EXPENSES</b>	
<b>October 2022-September 2023</b>	
Engineering Fees	35,000
Construction Projects	4,800,000
<b>Total Capital Expenditures</b>	<b>\$4,835,000</b>

**APPENDIX C**  
**ANNUAL AND PROPOSED C.O. FUND EXPENDITURES**  
**CITY OF IRVING**

<b>CAPITAL IMPROVEMENT PROGRAM</b>				
<b>FUND SUMMARY</b>		<b>MUNICIPAL DRAINAGE UTILITY C.O. BOND</b>		
<b>FUND BUDGET SUMMARY</b>	<b>2021-22 ACTUAL</b>	<b>2022-23 BUDGET</b>	<b>2022-23 PROJECTED *</b>	<b>2023-24 PROPOSED</b>
<b>Available Fund Balance 10-01</b>	\$ 37,007,908	\$ 202,422	\$ 53,687,720	\$ 2,119,400
<b>Revenues</b>				
Certificates of Obligation	\$ 18,755,000	\$ 20,000,000	\$ -	\$ -
Premium on Sale of Bonds	1,444,320	-	-	-
Texas Water Development Board Loan	-	-	-	38,700,000
Texas Water Development Board Grant	-	-	-	6,300,000
Interest on Investments	329,773	427,487	1,891,286	1,117,651
<b>Total Revenues</b>	<b>\$ 20,529,093</b>	<b>\$ 20,427,487</b>	<b>\$ 1,891,286</b>	<b>\$ 46,117,651</b>
<b>Total Funds Available</b>	<b>\$ 57,537,001</b>	<b>\$ 20,629,909</b>	<b>\$ 55,579,006</b>	<b>\$ 48,237,051</b>
<b>Expenditures</b>				
MDU Capital Projects	\$ -	\$ -	\$ 1,021	\$ -
Brockbank Channel	6,932	9,200,000	1,342,637	-
Embassy Channel - SH183 to Metker	148,011	3,000,000	15,538,948	-
Hillburn Court Drainage Improvement	303,965	-	429,354	-
Hux Court Erosion Control	6,136	-	224,510	-
Lindy Lane Outfall Drainage Improvement	201,759	-	25,456	-
MacArthur - Metker to Byron Nelson Way	-	4,200,000	4,183,144	-
MDU Office/Training Building	63,860	-	976,140	-
North Delaware Creek - SH 183 to Henry Drive	577,014	-	1,807,350	-
O'Connor Ridge Blvd	149,894	-	-	-
Patricia and West 11th Street	35,554	-	1,033,946	-
Pioneer - Delaware Creek to Oakdale Dr.	229,751	-	6,788,618	-
Timberview Drive Drainage Improvement	2,042	-	-	-
West Irving Creek- Design Village Rd to Wyche	1,411,609	3,600,000	19,744,394	-
West Irving Creek Debris Interceptor	-	-	37,802	-
Wildwood, Railroad Gabion Wall	30,063	-	84,937	-
Wingren, Shadow, Rochelle, Esters, Campus	76,009	-	1,124,791	-
Wyche Detention Pond	527,315	-	12,500	-
18th Street	33,700	-	26,300	-
Drainage Solutions Projects	-	-	-	-
West Irving Creek Phase A & D	-	-	-	45,000,000
Bond Issuance Cost	193,594	-	-	-
Transfer to MDU Bond Fund	9,120	-	-	-
Transfer to MDU Debt Service Fund	-	-	-	-
Transfer to General Fund	41,955	83,759	83,759	89,550
<b>Total Expenditures</b>	<b>\$ 3,849,281</b>	<b>\$ 20,083,759</b>	<b>\$ 53,459,606</b>	<b>\$ 45,089,550</b>
<b>Available Fund Balance 09-30</b>	<b>\$ 53,687,720</b>	<b>\$ 546,150</b>	<b>\$ 2,119,400</b>	<b>\$ 3,147,501</b>
<b>Fund Description:</b>				
To account for funding of Drainage Solutions For a Better Tomorrow projects funded through the sale of Certificates of Obligation.				
* Amounts estimated are allocated to specific projects. Any allocated amount unspent in the current fiscal year will roll forward to the new fiscal year.				



**APPENDIX C  
ANNUAL AND PROPOSED NON-BOND EXPENDITURES  
CITY OF IRVING**

<b>CAPITAL IMPROVEMENT PROGRAM</b>				
<b>FUND SUMMARY</b>		<b>MUNICIPAL DRAINAGE UTILITY NON-BOND CIP</b>		
<b>FUND BUDGET SUMMARY</b>	<b>2021-22 ACTUAL</b>	<b>2022-23 BUDGET</b>	<b>2022-23 PROJECTED *</b>	<b>2023-24 PROPOSED</b>
<b>Available Fund Balance 10-01</b>	\$ 4,007,700	\$ 245,084	\$ 5,796,211	\$ 477,157
<b>Revenues</b>				
Transfer from MDU Fund	\$ 2,283,680	\$ 1,325,329	\$ 1,325,329	\$ 3,514,490
Transfer from General Fund	-	-	17,662	-
Interest on Investments	33,119	95,200	218,922	215,717
<b>Total Revenues</b>	<b>\$ 2,316,799</b>	<b>\$ 1,420,529</b>	<b>\$ 1,561,913</b>	<b>\$ 3,730,207</b>
<b>Total Funds Available</b>	<b>\$ 6,324,500</b>	<b>\$ 1,665,613</b>	<b>\$ 7,358,124</b>	<b>\$ 4,207,363</b>
<b>Expenditures</b>				
<b>Projects</b>				
Beltline Rd Bridge - Bear Creek Erosion Control	\$ 78,731	\$ -	\$ 20,249	\$ -
Drainage Solutions CIP Projects	185,494	1,325,329	5,554,430	3,514,490
Irving Mall Channel Drainage	12,564	-	147,436	-
Neighborhood Drainage	149,657	-	144,568	-
Macarthur - Metker to Byron Nelson Way	45,846	-	327,102	-
Sea/Air/Land Drones	27,997	-	19,003	-
SH 183 Drainage	-	-	19,701	-
Veteran's Park Drainage	-	-	17,662	-
Wingren, Shadow, Rochelle, Esters, Campus	28,000	-	630,818	-
<b>Total Expenditures</b>	<b>\$ 528,289</b>	<b>\$ 1,325,329</b>	<b>\$ 6,880,968</b>	<b>\$ 3,514,490</b>
<b>Available Fund Balance 09-30</b>	<b>\$ 5,796,211</b>	<b>\$ 340,284</b>	<b>\$ 477,157</b>	<b>\$ 692,873</b>
<b>Fund Description:</b>				
To account for funding for construction of pay-as-you-go drainage improvements. Funded by transfers from the MDU Operating Fund.				
<i>* Amounts estimated are allocated to specific projects. Any allocated amount unspent in the current fiscal year will roll forward to the new fiscal year.</i>				

**APPENDIX C**  
**ANNUAL AND PROPOSED MDU STORM SEWER BOND FUND**  
**REVENUE AND EXPENDITURES**  
**CITY OF IRVING**

<b>CAPITAL IMPROVEMENT PROGRAM</b>				
<b>FUND SUMMARY</b>		<b>STORM SEWER BOND</b>		
<b>FUND BUDGET SUMMARY</b>	<b>2021-22 ACTUAL</b>	<b>2022-23 BUDGET</b>	<b>2022-23 PROJECTED *</b>	<b>2023-24 PROPOSED</b>
<b>Available Fund Balance 10-01</b>	\$ 2,111,626	\$ 2,755	\$ 1,258,566	\$ 39,540
<b>Revenues</b>				
Bond Proceeds	\$ -	\$ -	\$ -	\$ -
Premium (Bond Sale)	-	-	-	-
Interest on Investments	5,894	-	34,346	24,938
<b>Total Revenues</b>	\$ 5,894	\$ -	\$ 34,346	\$ 24,938
<b>Total Funds Available</b>	\$ 2,117,520	\$ 2,755	\$ 1,292,912	\$ 64,478
<b>Expenditures</b>				
<b>Projects</b>				
SH 183 Drainage	\$ 858,954	\$ -	\$ 125,148	\$ -
MacArthur - Metker to Byron Nelson Way	-	-	1,128,225	-
<b>Miscellaneous</b>				
Bond Issuance Cost	-	-	-	-
Transfer to General Fund **	-	-	-	-
<b>Total Expenditures</b>	\$ 858,954	\$ -	\$ 1,253,372.43	\$ -
<b>Available Fund Balance 09-30</b>	\$ 1,258,566	\$ 2,755	\$ 39,540	\$ 64,478
<b>Fund Description:</b>				
To account for funding for construction of drainage systems. These improvements are funded by general obligation bond proceeds and interest on investments.				
* Amounts estimated are allocated to specific projects. Any allocated amount unspent in the current fiscal year will roll forward to the new fiscal year.				
** Transfer is reimbursement to the General Fund related to operational costs such as salary and benefits associated with these projects.				

**APPENDIX C**  
**ANNUAL AND PROPOSED MUNICIPAL DRAINAGE UTILITY (MDU) FUND**  
**REVENUE AND EXPENDITURES**

<b>CITY OF IRVING</b>				
<b>Municipal Drainage Utility Fund</b>				
	<b>FY 2021-22</b>	<b>FY 2022-23</b>	<b>FY 2022-23</b>	<b>FY 2023-24</b>
	<b>ACTUAL</b>	<b>BUDGET</b>	<b>PROJECTED</b>	<b>PROPOSED</b>
<b>Available Fund Balance 10-01</b>	3,209,459	\$ 4,240,112	\$ 5,746,094	\$ 6,548,796
<b>Revenues</b>				
Drainage Fees	12,211,770	13,410,000	13,410,000	15,310,000
Fines	-	-	6,500	6,500
Miscellaneous Revenue	73,684	6,500	2,137	-
Transfers	2,653,542	-	25,609	-
Interest on Investments	23,772	52,500	207,008	220,130
<b>Total Revenues</b>	<b>\$ 14,962,768</b>	<b>\$ 13,469,000</b>	<b>\$ 13,651,254</b>	<b>\$ 15,536,630</b>
<b>Total Funds Available</b>	<b>\$ 18,172,227</b>	<b>\$ 17,709,112</b>	<b>\$ 19,397,348</b>	<b>\$ 22,085,426</b>
<b>Expenditures</b>				
Salaries and Wages	2,092,577	2,597,773	2,192,913	2,761,625
Benefits	2,030,694	695,653	587,891	744,270
Supplies	124,887	285,575	180,148	272,507
Structure Maintenance	652,730	1,351,100	874,959	1,031,100
Equipment Maintenance	198,100	336,490	241,610	323,958
Utilities	1,969	1,500	-	-
Outside Services	132,752	204,500	119,275	204,500
Travel-Train-Dues	19,608	66,164	24,657	79,235
Claims and Insurance	-	-	-	140,250
Miscellaneous Services	52,391	31,893	36,370	36,370
Transfers	6,841,061	6,482,013	6,482,013	9,416,218
Debt Charges	(82,163)	-	-	-
Capital	301,724	1,698,410	2,108,716	63,172
<b>Total Expenditures</b>	<b>\$ 12,426,130</b>	<b>\$ 13,751,071</b>	<b>\$ 12,848,552</b>	<b>\$ 15,073,205</b>
<b>Available Fund Balance 9-30</b>	<b>\$ 5,746,094</b>	<b>\$ 3,958,041</b>	<b>\$ 6,548,796</b>	<b>\$ 7,012,221</b>
			90 Day Reserve	\$ 1,394,874
			Variance	5,617,347
<b>Fund Description:</b>				
The Municipal Drainage Utility (MDU) Fund provides resources for drainage channel maintenance and construction, environmental education programs, storm water testing, industrial inspections, erosion control, and dredging and channel stabilization projects.				

**APPENDIX C**  
**PROPOSED EXPENDITURES**  
**DALLAS COUNTY FLOOD CONTROL DISTRICT NO.1**

<b>DALLAS COUNTY FLOOD CONTROL DISTRICT NO. 1 PROPOSED BUDGET GENERAL FUND</b>			
<b>Year ends June 30, 2024</b>			
<b>REVENUES</b>			
Property Taxes			1,700,000
Penalties and Interest			10,000
Investment Income			300
Other Income			20,000
Tax Refunds			(15,000)
<b>Total</b>			<b>1,715,300</b>
<b>DISBURSEMENTS</b>			
Accounting	28,500		
Wages	90,000		
Audit	26,000		
DCAD Budget Allocation	34,000		
Contract Labor	6,000		
Directors' Fees	11,000		
Engineering	50,000		
Insurance	76,000		
Interest			
Legal	50,000		
District Maintenance	25,000		
Memberships	1,000		
Bank Fees	500		
Office Other	3,500		
Telephone	6,000		
Pump Station Electricity	6,000		
Rent	15,000		
Tax Administrator	26,400		
Taxes Payroll	7,000		
Miscellaneous	500		
Other Expense			
Fixed Asset Acquisition	1,000,000		
<b>Total</b>			<b>1,462,400</b>
<b>EXCESS REVENUES OVER DISBURSEMENTS</b>			<b>\$252,900</b>

**APPENDIX C  
PROPOSED EXPENDITURES  
DALLAS COUNTY FLOOD CONTROL DISTRICT NO.1**

DALLAS COUNTY FLOOD CONTROL DISTRICT NO. 1 PROPOSED BUDGET			
DEBT SERVICE FUND			
Year ends June 30, 2024			
	<u>REVENUES</u>		
	Property Taxes		3,000,000
	Penalties and Interest		30,000
	Investment Income		9,000
	Other Income		
	Tax Refunds		(30,000)
		<b>Total</b>	<b>3,009,000</b>
	<u>DISBURSEMENTS</u>		
	Debt Service	\$2,485,500	
	Paying Agent Fees	1,000	
		<b>Total</b>	<b>2,486,500</b>
<b>EXCESS REVENUES OVER DISBURSEMENTS</b>			<b>\$522,500</b>

**APPENDIX C**  
**PROPOSED EXPENDITURES**  
**DALLAS COUNTY UTILITY AND RECLAMATION DISTRICT**

<b>DALLAS COUNTY UTILITY AND RECLAMATION DISTRICT</b> <b>TOTAL BUDGETED EXPENDITURES BY FUND</b> <b>For the Fiscal Budgeted Year Ending September 30, 2024</b>		
<b>Fund Type</b>	<b>Fund</b>	<b>Total Budgeted</b>
<b>Governmental</b>		
	General	\$11,213,203
	Special Revenue	193,172
	Debt Service	25,431,375
	Capital Projects	0
	Service Center	408,406
<b>Enterprise</b>		
	Leased Properties	129,610
	Water Supply	2,554,140
<b>Internal Service</b>		
	Self-Insurance	351,485
	Vehicle Maintenance	275,255
<b>Total All Funds</b>		<b>40,556,646</b>

**APPENDIX C  
PROPOSED EXPENDITURES  
IRVING FLOOD CONTROL DISTRICT SECTION I**

<b>IRVING FLOOD CONTROL DISTRICT SECTION I 2023-24 ANNUAL OPERATING AND MAINTENANCE BUDGET</b>	
Administration and Expenses	\$ 94,876
Salaries and Wages	12,600
Meeting Expenses	4,700
Utilities	56,635
Legal Fees	41,200
Insurance	2,584
Audit Fees	8,100
Tax Appraisal/Collection	9,945
Engineering Fees	30,686
Maintenance and Operations	876,168
Mowing	28,000
Miscellaneous	5,000
Tax Increment	51,376
Bank Fees	1,000
<b>TOTAL</b>	<b>\$1,222,870</b>

<b>IRVING FLOOD CONTROL DISTRICT SECTION I 2023-24 CAPITAL PROJECTS FUND BUDGET</b>	
<b>Engineering Fees and Construction Costs</b>	
Professional Fees	0
<b>TOTAL</b>	<b>\$ 0</b>



**APPENDIX C  
PROPOSED EXPENDITURES  
IRVING FLOOD CONTROL DISTRICT SECTION III**

<b>IRVING FLOOD CONTROL DISTRICT SECTION III 2023-24 OPERATING BUDGET GENERAL FUND</b>		
<b>Estimated Sources of Funds</b>		
<b>Property taxes</b>		<b>\$(3,240,327)</b>
<b>Interest Income</b>		<b>(125,000)</b>
		<b>(3,365,327)</b>
<b>Administration</b>		
<b>Administrative expenses</b>		<b>209,635</b>
<b>Tax Collection Fees</b>		<b>8,000</b>
<b>Tax Appraisal Fees</b>		<b>12,237</b>
<b>Miscellaneous</b>		<b>4,500</b>
<b>Salaries and Wages</b>		<b>9,000</b>
<b>Legal Fees</b>		<b>10,000</b>
<b>Insurance</b>		<b>9,638</b>
<b>Accounting/Audit Fees</b>		<b>8,100</b>
<b>Bank Fees</b>		<b>3,500</b>
<b>Engineering</b>		<b>45,000</b>
		<b>319,610</b>
<b>Maintenance and Operation</b>		
<b>Maintenance and Fees</b>		<b>1,736,708</b>
<b>Mowing</b>		<b>36,495</b>
<b>Pump station maintenance</b>		<b>13,314</b>
<b>Utilities</b>		<b>145,000</b>
		<b>1,931,517</b>
<b>Transfer to Capital Projects Fund</b>		<b>\$2,245,264</b>
<b>Grand Total</b>		<b>\$4,497,691</b>

**APPENDIX C  
PROPOSED EXPENDITURES  
IRVING FLOOD CONTROL DISTRICT SECTION III**

<b>IRVING FLOOD CONTROL DISTRICT SECTION III 2023-24 OPERATING BUDGET FY CAPITAL PROJECTS FUND</b>		
<b>Estimated Sources of Funds</b>		
Transfer from General Operating		<b>\$(2,245,264)</b>
Interest Income		<b>(300,000)</b>
		<b>(2,545,264)</b>
<b>Professional Fees</b>		
Engineering		<b>\$35,000</b>
<b>Construction</b>		
Funds for Future Project		<b>\$1,925,333</b>
Construction Projects		<b>7,999,820</b>
<b>Grand total</b>		<b>\$7,414,889</b>

**APPENDIX D**  
**REVISIONS TO THE ASSESSMENT OF CONTROLS AND FISCAL ANALYSIS**

**City of Irving**

On January 16, 2020, the Irving City Council adopted Ordinance 2019-10293, which established a 5-Year Municipal Drainage Utility Rate Plan effective for fiscal years 2019-20 and proposed for 2020-21 through 2023-24. Prior to January 2020, no change to the stormwater fees had been made since October 1, 2008. The multi-year plan for MDU rate increases will maintain sufficient revenues to cover expected annual increases in pass-through costs, capital improvement costs, and other expenses.

**Dallas County Flood Control District No. 1**

The best management practices for Dallas County Flood Control District No. 1 centered on the maintenance and protection of facilities in and adjacent to the Bear Creek channel and floodplain. The annual review of District facilities took place during this period to identify structures that required maintenance activities as well as evaluating the needed repairs at other structures. The District had two people working approximately 40 hours per week performing maintenance activities. Mowing was done regularly for routine maintenance along the levee and floodplain area.

**Dallas County Utility and Reclamation District**

The district continued an aggressive dredging program to maintain flood control capacity and water quality in district waterways. Dredging operations were conducted in Lake Boyle and Southfork Hackberry Creek with the associated dredge material disposal basins. The projects were accomplished or continue due to high river levels backing water up into the creeks, in cooperation with the City of Irving through an Interlocal Agreement. The budget was \$1,843,000.00 for the above listed dredging projects and includes labor, engineering, contracted services, repair and maintenance materials, management and new equipment purchase. An estimated 45,000 cubic yards of material were removed from waterways during the period.

**Irving Flood Control District, Section I**

During the reporting year, the district repaired the toe area of the levee behind the 482 pump Station (Bathtub Project). The district brought in dirt to fill in the area from when TRA installed the 108-inch line and raised the ground up that caused water to pool up on the toe of the levee.

The district had its 5-year PI Inspection. The USACOE came out to inspect the district. Before the inspection the district had the storm drains inspected for the USACOE.

**Irving Flood Control District, Section III**

During the reporting year, The District completed the Main Lake Sump Wall Erosion Project which replaced 100-linear feet of old concrete block wall with an engineered erosion control wall to stabilize the edge of the waterway and provide stability to the slopes. Pump 6 was rehab, along with all 6 automatic grease units. The district had several engineering jobs for the upcoming projects (Pump Station Outfall, Control Gate, Sluice Gate, Pump Station Discharge Pipe Coating.) The Sluice Gate project will be completed in the summer of 2024. The Pipe Coating project will start after the first of the year. This project is to replace the coating on the inside of the discharge pipes for the IFCDIII Pump Station. The newest addition to the district is the autonomous Waste Shark from Ran Marine called SCOOP. The district has set up several routes for SCOOP to follow for the IFCDIII canal to remove trash from the waterways.

**APPENDIX E**  
**CITY OF IRVING**  
**SUMMARY OF PRIVATE CONSTRUCTION PROJECTS**

<b>Project Name</b>	<b>Site Operator</b>	<b>SWPPP Engineer</b>
<b>Archway</b> 4528 W Royal Ln, Irving, TX 75063	FA Peinado, LLC	EnviroServe
<b>Aspen Square Townhomes</b> 3420 W Shady Grove Rd, Irving, TX 75060	Aspen Square Homes, LLC	Trinity Green Services, L.L.C.
<b>Alta Riverside</b> 7550 State Highway 161	WOOD PARTNERS	Cardinal Strategies Environmental Services
<b>Barcelona Estates</b> 4132 N Belt Line Rd, Irving, TX 75038	Walnut-161 properties, LLC.	SYB Construction Co., Inc.
<b>Christus Health HQ</b> 5101 N O CONNOR BLVD, Irving, TX, 75039	Manhattan Construction Company	Texas SWPPP Services
<b>Coast Southwest</b> 5255 Bear Creek Ct, Irving, TX 75061	HM&MF, Ltd., dba Muckleroy & Falls	ProTex Environmental, LLC
<b>Classic Leasing</b> <b>Addition of Las Colinas</b> 2101 Gateway Dr Irving, Texas 75038	Speed Fab Crete, Inc.	Terradyne Group LLC
<b>Cordoba Estates</b> 3919 W Walnut Hill Ln, Irving, TX 75038	Walnut-161 properties, LLC.	SYB Construction Co., Inc.
<b>Double Eagle</b> 4500 N MacArthur Blvd, Irving, TX 75038	Savannah MacArthur Development LLC	EnviroServe
<b>Embassy Suites</b> 771 West John Carpenter Freeway, Irving, TX 75039	AAA Hotel Management Inc	Construction EcoServices
<b>Edged Dallas, LLC</b> 512 N Wildwood Dr, Irving, TX 75061	Edged Dallas, LLC	Burns & McDonnell Engineering Company, Inc.
<b>Freeport Parkway Development</b> Northeast Corner of Freeport Parkway and Regent Blvd. Irving, TX 75063	Talley Riggins Construction Group	Cardinal Strategies Environmental Services
<b>Fogo de Chao</b> 3080 Ranch Trail, Irving, TX 75063	DPR Construction	Cardinal Strategies Environmental Services
<b>Grand Braniff Park</b> 2300 Tom Braniff Drive, Irving, TX	Grand Braniff, LLC	ProTex Environmental, LLC
<b>Gateway South Stockpile</b> 5320 W. Airport FWY, Irving, TX	Bratjen Construction Company	ProTex Environmental, LLC
<b>Hardrock Ridgeview</b> 1400 Hardrock, Irving, TX	Alux Construction & Development, LLC	RSB Environmental
<b>Hotel Indigo</b> 455 E. John Carpenter Fwy. Irving, TX 75062	Wurzel Builders, Ltd.	Merit Professional Services
<b>Housing Channel Townhomes</b> 500 block/ second building	Housing Channel	Housing Channel

516 E 2nd St, Irving, TX 75060		
<b>JDA - Loop 12</b> 512 N Wildwood Dr	Raymond Construction	ProTex Environmental, LLC
<b>Lakeview Preserve Apartments</b> 2800 South MacArthur Blvd. Irving, TX 75060	Broaddus Construction, LLC	Carney Engineering, PLLC
<b>Legends Crossing Ashton Wood Homes</b> 9905 Hennings St, Irving, TX 75063	Ashton Dallas Residential, L.L.C.	Trinity green
<b>Lifetime Fitness</b> West of La Villita Blvd. & Las Colinas Blvd. Irving, TX 75039	LTF Real Estate Company, Inc.	Terradyne Group LLC
<b>Linkside</b> Northeast of N. Macarthur Blvd. And Cottonwood Ln., Irving, TX 75038	TDI Linkside LLC	Stormcon, LLC
<b>Lot 2 - Proposed Industrial Facility</b>	TBD	Woolpert, Inc.
<b>Mirella Plaza</b> 7300 Riverside Dr, Irving, TX 75039	Ever Group Construction Corp.	Ever construction
<b>Metrotex Office Development</b> 1701 Kinwest Pkwy, Irving, TX 75063	HM & MF, Ltd. dba Muckleroy & Falls	EnviroServe
<b>Peregrine</b> 6001 Love Dr, Irving, TX 75039	Provident General Contractors	EnviroServe
<b>Pinpoint</b> 1451 Greenway Dr, Irving, TX 75038	DB CONSTRUCTORS, INC.	Alpha Testing
<b>QTS</b> 6351 Longhorn Dr, Irving, TX 75063	Turner Construction Company	Turner Construction Company
<b>Royal Circle Plaza</b> 3300 West Royal Lane, TX 75063	Infinity Global, LLC	Cardinal Strategies Environmental Services
<b>Rosewood Las Colinas</b> 200 W John Carpenter Fwy, Irving, TX 75038	PRC Las Colinas Mixed Use, LLC	EnviroServe
<b>Sandman Hotel</b> 1311 Meridian Dr Irving, TX 75038	Northland Developments (Las Colinas), Inc.	EnviroServe
<b>Seville Estates</b> 4475 Rainier St Irving, TX 75062	Walnut-161 properties, LLC.	SYB Construction Co., Inc.
<b>Shridi Sai Center</b> 3898 Carbon Rd Irving, TX 75038	Krea Construction Group LLC	Triangle Engineering LLC
<b>South Haven</b> 1350 Bluegill Bay Rd, Irving, TX 75063	Normandy Homes Southhaven, LLC	Merit Professional Services
<b>Summit's Edge Office Building</b> 701 West John Carpenter Freeway, Irving, TX 75039	Masa Design Build, LLC	Terradyne Group LLC

<b>Tejas Tesing No.13</b> 1615 W Irving Blvd, Irving, TX 75061	MRB Contractors, L.L.C.	Trinity green
<b>Terraces at Las Colinas</b> Southwest Corner of State Highway 161 & Las Colinas Blvd	Mapp, LLC	Principle Services Environmental LLC
<b>Texas Stadium Ph. II</b> 2050 Texas Plaza Dr, Irving, TX 75062	JPI Construction, LLC	Terradyne Group LLC
<b>The Car Wash Zone</b> 1701 N Belt Line Rd, Irving, TX 75061	MA Engineering & Construction	MA Engineering & Construction
<b>The Heights at MacArthur</b> 400 S MacArthur Blvd, Irving, TX 75060	Watermark Commercial Contractors, LLC (WCCLLC)	SWPPP INSPECTIONS, INC.
<b>The International at Valley Ranch</b> 10049 N MacArthur Blvd Irving, TX 75063	Criterion International Valley Ranch, LLC	Kimley-Horn
<b>The Residences by Savannah</b> 300 O Connor Ridge Blvd, Irving, TX 75038	Savannah TPC Las Colinas Development, LLC	EnviroServe
<b>WESTRIDGE PARKING ADDITION</b> 2000 Westridge Dr, Irving, TX 75038	A.C.S.	Cardinal Strategies Environmental Services
<b>Woodwind Apartments</b> 3947 Pleasant Run Rd Irving, TX 75038	Eagle property Capital	Parra & Co., LLC
<b>The Mustang</b> 601 E Las Colinas Blvd, Irving, TX 75039	OHT DFW Construction, LLC	Cardinal Strategies Environmental Services
<b>YMCA of Irving</b> 2200 W Irving Blvd, Irving, TX 75061	GLENN ENGINEERING CORPORATION	Cardinal Strategies Environmental Services

**APPENDIX E  
CITY OF IRVING  
SUMMARY OF CAPITAL IMPROVEMENT PROJECTS**

<b>Project Name</b>	<b>Location</b>	<b>TCEQ Operator</b>	<b>SW3P Engineer</b>
<b>Brazos Drive W&amp;WW Improvements</b>	Brazos Drive, Irving, TX 75039	Flow-Line Construction, Inc	Flow-Line Construction, Inc
<b>Beltline Road Water Improvements</b>	North Beltline	SYB Construction Co., Inc.	SYB Construction Co., Inc.
<b>Campion Trail</b>	Southeast of East Pioneer Dr & Maryland Dr	A&C Construction, Inc.	Stormcon, LLC
<b>Cedar drive paving</b>	Cedar drive, TX 75061	SYB Construction Co., Inc.	SYB Construction Co., Inc.
<b>Conflans, Huntingdon, Lincolnshire, Little John &amp; Nottingham WW Improvement</b>	Conflans, Huntingdon, Lincolnshire, Little John & Nottingham Irving, TX 75061	SYB Construction Co., Inc.	SYB Construction Co., Inc.
<b>Conflans Road Extension</b>	Conflans Road	Zachry Construction Corporation	Zachry Construction Corporation
<b>Carbon Pump Station</b>	Carbon Road	Crescent Construction, Inc.	True Environmental
<b>Cottonwood &amp; Hackberry WW Improvements</b>	MacArthur Road	Super Excavators, Inc.	Stormcon, LLC
<b>Embassy Channel</b>	183/ Rochelle	Humphrey & Morton Construction Company, Inc	ProTex Environmental, LLC
<b>Fox Glen Water Pipe Bursting</b>	Fox Glen Irving, TX 75062	Insituform Technologies, LLC	Insituform Technologies, LLC
<b>Hard Rock &amp; Pioneer Ph. II</b>	Hard Rock & Pioneer Irving, TX 75061	SYB Construction Co., Inc.	SYB Construction Co., Inc.
<b>Irving Blvd. Reconstruction</b>	Irving Blvd Irving, TX 75060	Tiseo Paving Company, Inc.	Tiseo Paving Company, Inc.
<b>Irving Central Fire Station</b>	135 S Jefferson St, Irving, TX 75060	Core Construction Services Of Texas, Inc.	ProTex Environmental, LLC
<b>Lindy Lane</b>	Lindy Lane	SYB Construction Co., Inc.	SYB Construction Co., Inc.
<b>MacArthur Blvd Street Improvement</b>	North MacArthur Blvd Street	TISEO PAVING COMPANY, INC.	Texas SWPP Services
<b>Oak Meadows Park</b>	2900 Condor Dr, Irving, TX 75060	A&C Construction, Inc.	ProTex Environmental, LLC



<b>Pioneer Drainage Improvements Ph. I &amp; Ph. II</b>	West Pioneer Dr Irving, TX 75061	North Texas Contracting, Inc.	North Texas Contracting, Inc.
<b>Regent Blvd. Pavement Reconstruction (Belt Line Rd to Kinwest Pkwy)</b>	Regent Blvd Irving, TX 75063	Tiseo Paving Company, Inc.	Tiseo Paving Company, Inc.
<b>Skyway Circle South part 1 Wastewater and Water Improvements</b>	2926 Skyway Cir S, Irving, TX 75038	Flow Line Construction, Inc.	Flow Line Construction, Inc
<b>Skyway Circle Part 2 Wastewater and Water Improvements</b>	3126 Skyway Cir S, Irving, TX 75038	Flow Line Construction, Inc	Flow Line Construction, Inc
<b>Thomas St &amp; Bunn Dr Water Improvement</b>	Thomas St & Bunn Dr Irving, TX 75061	Insituform Technologies, LLC	Insituform Technologies, LLC
<b>Vanco, Cascade, Wildwood &amp; Singleton W&amp;WW Improvements</b>	Vanco Dr., Cascade Dr., Wildwood Dr., Singleton Blvd. , Irving, TX 75061	North Texas Contracting, Inc.	North Texas Contracting, Inc.

**APPENDIX F**  
**SUMMARY OF CONSTRUCTION INSPECTION ACTIVITY**

<b>Construction Site Inspection Activity – Private Development</b> <b>Inspections Department</b> <b>October 2022-September 2023</b>	
<b>Type of Inspection</b>	<b>Number Performed</b>
Building Final	2518
Building Miscellaneous	584
Framing	1397
Foundation Slab	692
Wall Bracing	439
<b>Total</b>	<b>5,630</b>
The results of inspections led to follow up inspections examining erosion and sedimentation control BMPs and general site conditions.	
Erosion Control	Done with each inspection
<b>Total Inspections</b>	<b>5,630</b>

**APPENDIX F**  
**SUMMARY OF CONSTRUCTION INSPECTION ACTIVITY**

<b>Capital Improvement Program Private Construction Site Inspections October 2022-September 2023</b>			
<b>Month</b>	<b>Total Inspections</b>	<b>Notices of Violation</b>	<b>Stop Work Orders</b>
October	30	3	0
November	35	1	0
December	36	2	0
January	35	4	1
February	40	1	0
March	39	4	0
April	51	2	1
May	49	0	0
June	24	0	1
July	22	1	1
August	26	0	0
September	21	0	0
<b>Total</b>	<b>408</b>	<b>18</b>	<b>4</b>

**APPENDIX F  
SUMMARY OF CONSTRUCTION INSPECTION ACTIVITY**

Capital Improvement Program CIP Site Inspections October 2022-September 2023			
Month	Total Inspections	Notices of Violation	Stop Work Orders
October	17	0	0
November	17	0	0
December	10	1	0
January	12	0	0
February	13	0	0
March	15	0	0
April	12	0	0
May	14	0	0
June	15	0	0
July	16	0	0
August	18	0	0
September	0	0	0
<b>Total</b>	<b>159</b>	<b>1</b>	<b>0</b>

**APPENDIX G**  
**SUMMARY OF INDUSTRIAL INSPECTION ACTIVITY**

<b>Permitted Industry Inspections</b> <b>Water Utilities – Environmental Compliance</b> <b>October 2022 – September 2023</b>		
<b>Industry</b>	<b>Stormwater Permit Number</b>	<b>Inspection Date</b>
Americas Beverage	TXR05EL70	6/22/2023
BP Aerospace 1	TXR05FN53	4/24/2023
BP Aerospace 2	TXR05FY43	4/24/2023
Brakebush	TXR05FD49	7/25/2023
Chemolee Labs	TXRNEBP12	5/10/2023
Cosmetic Labs	TXRNEBP03	1/11/2023
Cosmetic Labs 2	TXRNEBU74	1/11/2023
Dr Pepper	TXR05AN33	4/25/2023
Fresenius Medical Care	TXR05FK30	4/11/2023
Frito Lay	TXR05AX96	1/10/2023
Irving Metal Finishers	TXRNEBP95	6/14/2023
Lone Star Container	TXRNER067	6/12/2023
McCormick	TXRNEW548	8/10/2023
Mohawk Labs	TXR05M766	8/22/2023
Multilayer Technologies	TXRNER069	5/4/2023
Netvia Group	TXRNEAF17	7/27/2023
Owens Corning	TXR05DB02	3/17/2023
Padrino Foods	TXRNEAJ90	6/15/2023
Premark Health Sciences	TXRNECA43	4/19/2023
Trader Joe's/World Class Distribution	TXRNECB45	6/19/2023
US Plating	TXRNEZ728	2/7/2023
USA Packaging	TXR05Q715	8/22/2023
Xochitl Inc	TXRNEAI42	6/20/2023
<b>Total Inspections</b>	<b>23</b>	

**APPENDIX G**  
**SUMMARY OF INDUSTRIAL INSPECTION ACTIVITY**

Randomly Selected Industry Inspections Water Utilities – Environmental Compliance October 2022 – September 2023			
Business	Address	SIC Code	Inspection Date
Abbott Labs	1921 Hurd Dr	3845	5/11/2023
Airline Tech Reps	4831 W Royal Ln Suite A	4581	5/16/2023
ASC Engineered Solutions	1401 Valley View Ln Suite 150	4225	8/15/2023
ASI Sign Systems Inc	8181 Jetstar Suite 101	3993	6/19/2023
Astura Medical	4949 W Royal Ln	4225	5/8/2023
ATP Jet Simulation	2800 Valley View Ln, Suite 180-B	None Listed	5/26/2023
Bluum - CDI Dallas	951 Valley View Suite 180	3571	6/14/2023
Budd Van Lines	8065 Tristar Dr	4225	8/10/2023
Builders FirstSource	8701 Sterling St Suite 180	2439	6/15/2023
C & G Plastics	1716 Parkside	2821	4/18/2023
Caesarstone	9500 N Royal Ln	3281	5/15/2023
Cenveo Worldwide	1011 W Royal Lane	2677	5/16/2023
Clean Harbors Environmental Services	2109 Reid Drive	4212	5/2/2023
Continental Battery	9500 N Royal Suite 150	4225	6/23/2023
Delta Steel Technologies	2204 Century Center Blvd	3549	5/3/2023
EcoServices	1725 Hurd Dr Suite 108	4581	7/6/2023
Exist Multifamily	8600 N Royal Ln Suite 150	2434	4/20/2023
Expeditors	1101 Valley View Ln Suite 100	4225	9/5/2023
FedEx Ship Center	5000 Hanson Dr	4213	9/21/2023
FreeFlight Systems	8080 Jetstar Dr Ste 100	3812	9/6/2023
Freight Crafters RS1 Crafting & Packaging	8904 Royal Ln	2441	5/17/2023
Harvest Ice	309 N Belt Line Rd Suite 105	2097	6/13/2023
Horizen Global Americas Inc	5355 FAA Blvd Suite 100	4225	5/24/2023
Ibanez AGM Countertops LLC	2200 Regency Dr	3281	5/18/2023
Inchon Food Co	845 N Belt Line	2099	5/17/2023
Irving Counter Top	101 N Irving Heights Dr	3281	9/6/2023
La Crème Coffee & Tea	3225 Premier Suite 100	2095	4/12/2023
Mentor Polymer Technologies	3041 Skyway Circle N	2822	11/30/2022
Nusil Technology	6125 W Campus Circle	2822	5/25/2023
Omega Environmental Technologies	1401 Valley View Lane Suite 100	3585	5/22/2023
Orbital Systems	3807 Carbon Rd	3663	5/9/2023
Pegasus Logistics Group	2800 Valley View Ln Suite 110	4213	9/21/2023

Progressive Laboratories	3131 Story Rd W	2834	7/20/2023
Reata Pharmaceuticals	2801 Gateway Dr Suite 150	2834	6/26/2023
Rubaroc LLC	8050 Jetstar Drive Unit 150	3069	5/1/2023
Shermco Industries	2425 E Pioneer Dr	3621	6/13/2023
Siegwerk	2030 Century Center Blvd Suite 16	2893	6/22/2023
Sonoco	5111 Frye Rd	2655	6/12/2023
Texas AirSystems	6029 Campus Circle Drive West Suite 100	3585	5/23/2023
<b>Total Inspections</b>			<b>39</b>



**APPENDIX H**  
**SUMMARY OF POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL FACILITIES**

Facility	Address	Date
Macarthur pump station	1900 N MacArthur	6-8-23
Warehouse	3000 Rock Island	6-12-23
West Irving Aquatic Center	3701 Conflans	6-12-23
West Park Rec Center	530 Davis	6-12-23
West Irving Library	4444 W Rochelle	6-27-23
Northwest Park Rec Center	2800 Cheyenne	6-27-23
Lively Community Center	909 O'Connor	6-28-23
Senter Park Rec Center	909 S Senter	6-12-23
Senter East Building	228 Chamberlain	6-12-23
Jaycee Art Center	200 W Airport Frwy	6-28-23
Animal Care Campus	4140 Valley View	6-8-23
Paine House-Museum	2515 W 5 <sup>th</sup> St	6-27-23
Lee Rec Center	3000 Pamela	6-12-23
Valley Ranch Library	401 Cimarron	6-8-23
Valley Ranch Library(old)	9940 W Valley Ranch	6-8-23
Mustang Park Rec Center	2223 Kinwest	6-27-23
Irving Convention Center	550 W Las Colinas	6-28-23
Irving Arts Center	3333 N MacArthur	6-12-23
ICTN	233 S Rogers	6-28-23
Human Services Building	440 S Nursery	6-12-23
Hackberry Pump Station	8501 Hackberry Rd	6-28-23
Heritage Senior Center	200 S Jefferson	6-12-23
Heritage Park	217 S Main St	6-12-23
Heritage House	303 S O'Connor	6-12-23
Fire Museum	137 2 <sup>nd</sup> St	6-12-23
Criminal Justice Center	305 N O'Connor	6-12-23
Family Advocacy Center	600 W Pioneer	6-12-23
Fire Prevention Building	1230 Glenwick	6-12-23
Police & Fire training	2603 Esters	6-27-23
Garden Arts Center	906 S Senter Rd	6-12-23
Community House	135 S Jefferson	6-12-23
City Hall Complex	825 W Irving Blvd	6-12-23
Brighter Tomorrow	226 Falcon	6-12-23
Bear Creek Museum	3925 Jackson	6-12-23
Joint Fire Training Facility	4850 N Beltline	6-27-23
Old Central Library	801 W Irving Blvd	6-12-23
Cimarron Rec Center	201 Red River Trail	6-8-23
Firestation #9	8101 Jetstar	6-9-23
Firestation #1	925 Chamberlain	6-8-23

Firestation #10	415 Cimarron	6-9-23
Firestation #7	3303 W Walnut Hill	6-9-23
Firestation #5	2925 W Shady Grove	6-9-23
Firestation #3	1825 E Grauwylar	6-9-23
Firestation #2	1306 N Story	6-9-23
Firestation #6	2801 Esters Rd	6-9-23
Firestation #4	3303 N MacArthur	6-9-23
Firestation #11	6200 Love Dr	6-9-23
Firestation #8	650 E Las Colinas	6-9-23
Firestation #12	2995 Regent	6-9-23

**APPENDIX I**  
**SUMMARY OF INDUSTRIAL INSPECTION ACTIVITY MUNICIPAL FACILITY INSPECTIONS**  
**HIGH PRIORITY FACILITIES**

<b>Pollution Prevention and Good Housekeeping for Municipal Operations High Priority Municipal Facility Inspections</b>		
<b>Facility</b>	<b>Address</b>	<b>Dates</b>
Briery Yard	128 N. Briery Road	12/8/2022 3/29/2023 6/22/2023 9/15/2023
Fritz Park Maintenance Office	312 E. Vilbig	12/7/2022 3/29/2023 6/22/2023 9/13/2023
Irving Soccer Complex	3585 World Cup Way	12/7/2022 3/28/2023 6/21/2023 9/13/2023
Las Colinas Service Center	5992 Riverside Dr	12/7/2022 3/28/2023 6/21/2023 9/13/2023
Trinity View Service Center	2221 E Hwy 356	12/7/2022 3/28/2023 6/21/2023 9/13/2023
Valley View Municipal Complex	333 Valley View Ln	12/8/2022 3/29/2023 6/22/2023 9/15/2023
North Service Center	5826 Valley View	12/7/2022 3/28/2023 6/21/2023 9/13/2023
Irving Golf Maintenance Yard	2310 E Shady Grove	12/7/2022 3/28/2023 6/21/2023 9/13/2023

**APPENDIX J**  
**REPRESENTATIVE MONITORING DATA**

**2022-23 Reporting Year**

The City of Irving, using mobile wet weather samplers, monitored eight storm events during the permit reporting year. We screened 15 sites on the following receiving waters: Cottonwood Creek, Dry Branch, West Irving Branch, Bear Creek, Estelle Creek, Delaware Creek and Hackberry Creek. Screening methodologies included grab sampling (first flush) and composite sampling for two storm events per sample site.

The following chemical analyses were performed on grab samples: hardness, pH, temperature, DO, DO%, conductivity, grease and oil, e. coliform, and fecal streptococcus. The following testing was performed on composite samples: BOD, COD, Nitrite+Nitrate-Nitrogen, TKN, Phosphate (total), Ortho-phosphate, TDS, TSS, Cadmium (total), Copper (total), Chromium (total), Nickel (total), Lead (total), Zinc (total), Atrazine, Ammonia Nitrogen, and Arsenic. The following table provides the dates and locations where the samples were collected.

Storm Event Date	Site Number	10/24/2022	10/28/2022	1/24/2023	2/14/2023	3/24/2023	5/19/2023	7/16/2023	9/14/2023	Totals
<b>Receiving Water/Site Sampled</b>										
West Irving Branch/MacArthur	7			*	*					2
West Irving Branch/Briery	2	*	*							2
Delaware Creek/Maple	4	*	*							2
Delaware Creek/183	9			*	*					2
Delaware Creek/Sowers	3	*	*							2
Cottonwood Creek/Story	10					*	*			2
Cottonwood Creek/114	11					*	*			2
Estelle Creek/Northgate	13					*	*			2
Estelle Creek/Rochelle	12					*	*			2
Hackberry Creek/Colwell	15							*	*	2
Hackberry Creek/Gateway	14						*	*		2
Dry Branch/Conflans	1	*	*							2
Dry Branch/Pocatello	6			*	*					2
Bear Creek/Shady Grove	5		*		*					2
Bear Creek/MacArthur	8			*	*					2
<b>Total Number of Sites Sampled</b>	<b>15</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>2</b>	<b>1</b>	<b>30</b>
<b>Total Number Storm Events Sampled</b>	<b>8</b>					<b>Samples per Event</b>				

The samples were analyzed for the following parameters:

Sampling Parameters Employed	
Parameter	Reporting Units
Ammonia Nitrogen, total (calculated)	mg/L (milligrams per liter)
Arsenic	mg/L (milligrams per liter)
BOD - 5 day	mg/L (milligrams per liter)
Cadmium, total	mg/L (milligrams per liter)
Chromium, total	mg/L (milligrams per liter)
COD	mg/L (milligrams per liter)
Conductivity	µS/cm (microsiemens per centimeter)
Copper, total	mg/L (milligrams per liter)
Atrazine	µg/L (microgram per liter)
Dissolved Oxygen	mg/L (milligrams per liter)
Dissolved Oxygen Percent	% (percent)
E. Coli, MPN Q-tray	MPN/100mL (Most Probable Number per 100 milliliters)
Fecal Streptococcus	Col/100mL (colonies per 100 milliliters)
Grease & Oil	mg/L (milligrams per liter)
Hardness	mg/L (milligrams per liter)
Lead, total	mg/L (milligrams per liter)
Nickel, total	mg/L (milligrams per liter)
Nitrate+Nitrite-Nitrogen	mg/L (milligrams per liter)
Ortho-Phosphate	mg/L (milligrams per liter)
pH	S.U. (standard units)
Phosphate, total	mg/L (milligrams per liter)
TDS	mg/L (milligrams per liter)
Temperature	°C (degree Celsius)
TKN	mg/L (milligrams per liter)
TSS	mg/L (milligrams per liter)
Zinc, total	mg/L (milligrams per liter)

The City of Irving is continuing the accumulation of wet weather screening data. Data collected during this permit period was included in Appendix J.



<b>Storm Event Wet Weather Sampling</b> <b>Water Utilities – Environmental Compliance</b> <b>October 1, 2022 – September 30, 2023</b>													
Date	Site		BOD	COD	Ammonia		Ortho-Phosphate	Phosphate	TDS	TSS	Cadmium		Chromium
10/24/2022	4		12	42	0.03	<	0.02	0.12	538	30	0.05	<	0.05
10/24/2022	3	>	26	257	0.17	<	0.02	0.74	276	91	0.05	<	0.05
10/24/2022	1	>	24	67	0.24		0.09	0.29	123	286	0.05	<	0.05
10/24/2022	2	>	24	101	0.23		0.15	0.39	126	121	0.05	<	0.05
10/28/2022	5		5	25	0.07		0.13	0.21	62	34	0.05	<	0.05
10/28/2022	4		3	50	0.16		0.06	0.2	107	10	0.05	<	0.05
10/28/2022	3		11	15	0.04		0.08	0.1	99	60	0.05	<	0.05
10/28/2022	1		10	51	0.25		0.07	0.23	157	47	0.05	<	0.05
10/28/2022	2		16	58	0.19		0.11	0.25	113	58	0.05	<	0.05
1/24/2023	8		10	135	0.26		0.03	0.77	421	353	0.05	<	0.05
1/24/2023	9	>	25	96	0.41		0.19	0.49	84	76	0.05	<	0.05
1/24/2023	6		9	47	0.66		0.12	0.36	179	87	0.05	<	0.05
1/24/2023	7		18	75	0.49		0.3	0.48	171	37	0.05	<	0.05
2/14/2023	8		7	71	0.32		0.04	0.56	347	542	0.05	<	0.05
2/14/2023	5		8	56	0.54		0.11	0.23	59	25	0.05	<	0.05
2/14/2023	9		10	46	0.72		0.16	0.32	117	51	0.05	<	0.05
2/14/2023	6		6	43	0.26		0.22	0.44	137	84	0.05	<	0.05
2/14/2023	7		8	48	0.33		0.14	0.36	73	59	0.05	<	0.05
3/24/2023	11		5	47	0.13		0.04	0.17	268	24	0.002	<	0.004
3/24/2023	10		11	31	0.21		0.05	0.23	318	115	0.002		0.008
3/24/2023	13		14	56	0.22		0.05	0.28	164	122	0.002		0.007
3/24/2023	12		18	55	0.18		0.05	0.29	173	122	0.002		0.006
5/19/2023	11		6	24	0.06	<	0.02	0.13	322	19	0.05	<	0.05
5/19/2023	10		10	52	0.13	<	0.02	0.35	206	214	0.05	<	0.05
5/19/2023	13		7	65	0.25		0.05	0.37	132	230	0.05	<	0.05
5/19/2023	12		8	51	0.23		0.06	0.28	130	195	0.05	<	0.05
5/19/2023	14		6	33	0.14	<	0.02	0.23	494	170	0.05	<	0.05
7/16/2023	15		3	35	<0.02	<	0.02	0.14	363	79	0.001	<	0.003
7/16/2023	14		2	25	0.08	<	0.02	0.06	593	23	0.001	<	0.003
9/14/2023	15		4	23	<0.02	<	0.02	0.06	465	19	<0.001	<	0.003

## Leah Whallon

---

**From:** Cody Cash <ccash@cityofirving.org>  
**Sent:** Thursday, June 27, 2024 7:01 AM  
**To:** Leah Whallon  
**Subject:** Re: Application to Renew Permit No. WQ0004691000; City of Irving MS4  
**Attachments:** City of Irving MS4 - Spanish NORI.docx

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Good Morning Leah,

Apologies for the delay, please see the attached Spanish NORI. I tried to condense some of the instructional language but this document has editing restrictions and I couldn't figure out how to bypass.

Again, thanks for your patience and please let me know if there are more action items I need to fulfill for this applicaton.

Thanks!  
-Cody

Cody Cash, GIT, CFM | MDU Programs Supervisor  
City of Irving | Capital Improvement Program  
825 W. Irving Blvd. Irving, TX 75060  
P: (972) 721-4760 C: (469) 332-8581  
[ccash@cityofirving.org](mailto:ccash@cityofirving.org) | [CityofIrving.org](http://CityofIrving.org)

---

**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>  
**Sent:** Monday, June 24, 2024 9:12 AM  
**To:** Cody Cash <ccash@cityofirving.org>  
**Subject:** [External] RE: Application to Renew Permit No. WQ0004691000; City of Irving MS4

**USE CAUTION** when clicking links & opening attachments!

Good Morning Cody,

Only the portion of the NORI in my letter (first and last paragraphs) needs to be translated. I am including it here as well. Please let me know if you need anything else.

APPLICATION. City of Irving, 825 West Irving Boulevard, Irving, Texas 75060; Dallas County Flood Control District 1, 210 Highland Park Drive, Irving, Texas 75061; Dallas County Utility & Reclamation District, 850 Las Colinas Boulevard East, Irving, Texas 75039; Irving Flood Control District Section 1, P.O. Box 140035, Irving, Texas 75014; Irving Flood Control District Section 3, 850 Las Colinas Boulevard East, Irving, Texas 75039; have applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0004691000 (EPA I.D. No. TXS001301) to authorize discharges from the municipal separate storm sewer system located within the corporate boundary of the City of Irving, except agricultural lands, in Dallas County, Texas 75038, 75039, 75050, and 75060-75063 (pending response). The discharge route is from the



municipal separate storm sewer system to the surface water in the State. TCEQ received this application on June 4, 2024. The permit application will be available for viewing and copying at Irving City Hall, 825 West Irving Boulevard, Irving, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:  
<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

Further information may also be obtained from City of Irving, Dallas County Flood Control District 1, Dallas County Utility & Reclamation District, Irving Flood Control District Section 1, and Irving Flood Control District Section 3 at the address stated above or by calling Mr. Cody Cash, GIT, CFM, MDU Programs Supervisor, City of Irving, at 972-721-4760.

Thanks,



**Leah Whallon**

Texas Commission on Environmental Quality  
Water Quality Division  
512-239-0084  
[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

---

**From:** Cody Cash <[ccash@cityofirving.org](mailto:ccash@cityofirving.org)>  
**Sent:** Monday, June 24, 2024 8:46 AM  
**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>  
**Subject:** Re: Application to Renew Permit No. WQ0004691000; City of Irving MS4

Sorry for the spam, I am unable to find an english NORI on the TCEQ website. Can you send me a link or a copy of the english NORI?

Cody Cash, GIT, CFM | MDU Programs Supervisor  
City of Irving | Capital Improvement Program  
825 W. Irving Blvd. Irving, TX 75060  
P: (972) 721-4760 C: (469) 332-8581  
[ccash@cityofirving.org](mailto:ccash@cityofirving.org) | [CityofIrving.org](http://CityofIrving.org)

---

**From:** Cody Cash <[ccash@cityofirving.org](mailto:ccash@cityofirving.org)>  
**Sent:** Monday, June 24, 2024 8:13 AM  
**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>  
**Subject:** Re: Application to Renew Permit No. WQ0004691000; City of Irving MS4

Good morning Leah,

Great, thanks for the communication. I'll get the NORI translated and sent over ASAP.

Thanks!  
-Cody

Cody Cash, GIT, CFM | MDU Programs Supervisor  
City of Irving | Capital Improvement Program  
825 W. Irving Blvd. Irving, TX 75060  
P: (972) 721-4760 C: (469) 332-8581  
[ccash@cityofirving.org](mailto:ccash@cityofirving.org) | [CityofIrving.org](http://CityofIrving.org)

---

**From:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>  
**Sent:** Friday, June 21, 2024 4:00 PM  
**To:** Cody Cash <[ccash@cityofirving.org](mailto:ccash@cityofirving.org)>  
**Subject:** [External] RE: Application to Renew Permit No. WQ0004691000; City of Irving MS4

**USE CAUTION** when clicking links & opening attachments!

Thank you, Cody.

I am checking into the ZIP codes being updated as a clerical error. Would you be able to provide the Spanish NORI and I can make the changes after? Everything else looks good to go. Please let me know if you have any questions.

Thanks,



**Leah Whallon**  
Texas Commission on Environmental Quality  
Water Quality Division  
512-239-0084  
[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at  
[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

---

**From:** Cody Cash <[ccash@cityofirving.org](mailto:ccash@cityofirving.org)>  
**Sent:** Thursday, June 20, 2024 4:42 PM  
**To:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>  
**Subject:** Re: Application to Renew Permit No. WQ0004691000; City of Irving MS4

Hi Leah,

Thanks for reaching out, my apologies for any errors on the permit renewal application. This is my first time renewing a TPDES permit so I appreciate the patience and guidance.

1. I'll include the receipt for the renewal via ePay. (attached)
2. For the zip codes, Irving has not expanded or annexed any new areas. I'm not sure if these (and there might be others after some further investigation) zip codes would necessitate an amendment or if this would just be a clarification of a clerical error in the past. This is something I have no knowledge of and would defer though an amendment does sound like more paperwork so I would rather have this as a clerical correction if possible.

3. Pages 28-29 on the application show 'For TCEQ staff use only' on the header so I didn't fill it out, it isn't very clear that the rest of this page is for the permittee to complete in my opinion. I'll attach a copy of this SPIF to the email. I would really recommend TCEQ revise the layout of this page in the future. Items 10, 11, and 12 are strange but I'll do my best to answer appropriately. (attached)
4. This looks good pending the zip code changes, if any.
5. Pending the approval of the zip code changes in the NORI, I will work on getting this translated into Spanish utilizing the template and send that in a separate email.

Again, thanks for the guidance and sorry for the incomplete application.

-Cody

Cody Cash, GIT, CFM | MDU Programs Supervisor

City of Irving | Capital Improvement Program

825 W. Irving Blvd. Irving, TX 75060

P: (972) 721-4760 C: (469) 332-8581

[ccash@cityofirving.org](mailto:ccash@cityofirving.org) | [CityofIrving.org](http://CityofIrving.org)

---

**From:** Leah Whallon <[Leah.Whallon@Tceq.Texas.Gov](mailto:Leah.Whallon@Tceq.Texas.Gov)>

**Sent:** Monday, June 17, 2024 2:31 PM

**To:** Cody Cash <[ccash@cityofirving.org](mailto:ccash@cityofirving.org)>

**Subject:** [External] FW: Application to Renew Permit No. WQ0004691000; City of Irving MS4

**USE CAUTION** when clicking links & opening attachments!

Good Afternoon,

This email was sent Friday, but was not delivered because of an error in the email address. My apologies for the error and I am extending the response date to allow for the 14 days. Please provide the response by July 1, 2024. Let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at

[www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

---

**From:** Leah Whallon

**Sent:** Friday, June 14, 2024 4:13 PM

**To:** [ccash@cityofirving.com](mailto:ccash@cityofirving.com)

**Subject:** Application to Renew Permit No. WQ0004691000; City of Irving MS4

Good Afternoon,

Please see the attached Notice of Deficiency letter dated June 14, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by June 28, 2024.

Please let me know if you have any questions.

Thank you,



**Leah Whallon**

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

[leah.whallon@tceq.texas.gov](mailto:leah.whallon@tceq.texas.gov)

How is our customer service? Fill out our online customer satisfaction survey at [www.tceq.texas.gov/customersurvey](http://www.tceq.texas.gov/customersurvey)

TCEQ ePay Receipt

Transaction Information

Trace Number: 582EA000612527  
Date: 06/03/2024 10:06 AM  
Payment Method: CC - Authorization 0000030577  
ePay Actor: CODY CASH  
TCEQ Amount: \$2,015.00  
Texas.gov Price:: \$2,060.59\*

52016304-640051

RECEIVED

JUN 04 2024

CAPITAL IMPROVEMENT PROGRAM  
CITY OF IRVING

\* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name: CODY CASH  
Company: CITY OF IRVING  
Address: 825 W IRVING BLVD, IRVING, TX 75060  
Phone: 972-721-2611

Cart Items

Voucher	Fee Description	AR Number	Amount
707798	MS4 PERMIT - PHASE I - RENEWAL		\$2,000.00
707799	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		\$15.00
		TCEQ Amount:	\$2,015.00

---

**For TCEQ staff use only:**

Application Type: ☐ Renewal  
☐ Major Amendment  
☐ Minor Amendment  
☐ New

Agency Receiving SPIF:	Texas Historical Commission Texas Parks & Wildlife US Fish & Wildlife Army Corps of Engineers
---------------------------	--

County: \_\_\_\_\_

Segment: \_\_\_\_\_

Admin Complete Date: \_\_\_\_\_

**SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)**

**This form applies to TPDES applications**

**The SPIF must be completed as a separate document. We will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed and/or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed. DO NOT REFER TO A RESPONSE OF AN ITEM IN THE PERMIT APPLICATION FORM. Each attachment must be provided with this form, separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.**

**The following applies to all applications:**

1. Permittee(s):\_\_The City of Irving, Dallas County Flood Control District #1,  
Irving Flood Control District #1, Irving Flood Control District #3, Dallas  
County Utility and Reclamation District  
-----
2. TPDES Permit No.: WQ0004691000-----
3. (EPA ID No. ): TXS001301-----
4. Address of the project (description of the MS4 boundaries): \_\_The city  
limits of the city of Irving, Texas

5. Provide the name, address, telephone and fax number of an individual that can be contacted to answer specific questions about the property.  
-----Cody Cash, GIT, CFM - MDU Programs Supervisor  
  
825 W Irving Blvd, Irving Tx 75060  
  
Phone: 972-721-4760  
  
Fax: N/A  
  
Email: ccash@cityofirving.org\_\_
6. List the county in which the MS4 is located: \_\_\_Dallas\_\_\_\_\_
7. If the property is publicly owned and the owner is different than the permittee/applicant, please identify the owner: \_\_\_\_\_
8. Identify the name of the water body (receiving waters) or TCEQ segment number that will receive the discharge: -----West Fork and Elm Fork of the Trinity River\_\_\_\_\_
9. Provide a 7.5 minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. (This map is required in addition to the map requested in the application administrative report.) - bottom of page
10. Provide original photographs of any structures 50 years or older on the property: N/A
11. Does your project involve any of the following?  
  
Proposed access roads, utility lines, and construction easements -yes  
Visual effects that could damage or detract from a historic property's integrity - no  
Vibration effects during construction or as a result of project design  
Additional phases of development that are planned for the future - yes  
Sealing of caves, fractures, sinkholes, or other karst features -no  
Disturbance of vegetation or wetlands -yes
12. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves or other karst features): \_\_\_Standard municipal infrastructure improvement and repair projects - private development within city limits  
-----
13. Describe existing disturbances, vegetation & land use (plowing, other ground disturbances): -----Municipal construction for infrastructure repair and improvements - private development within city limits\_\_\_\_\_

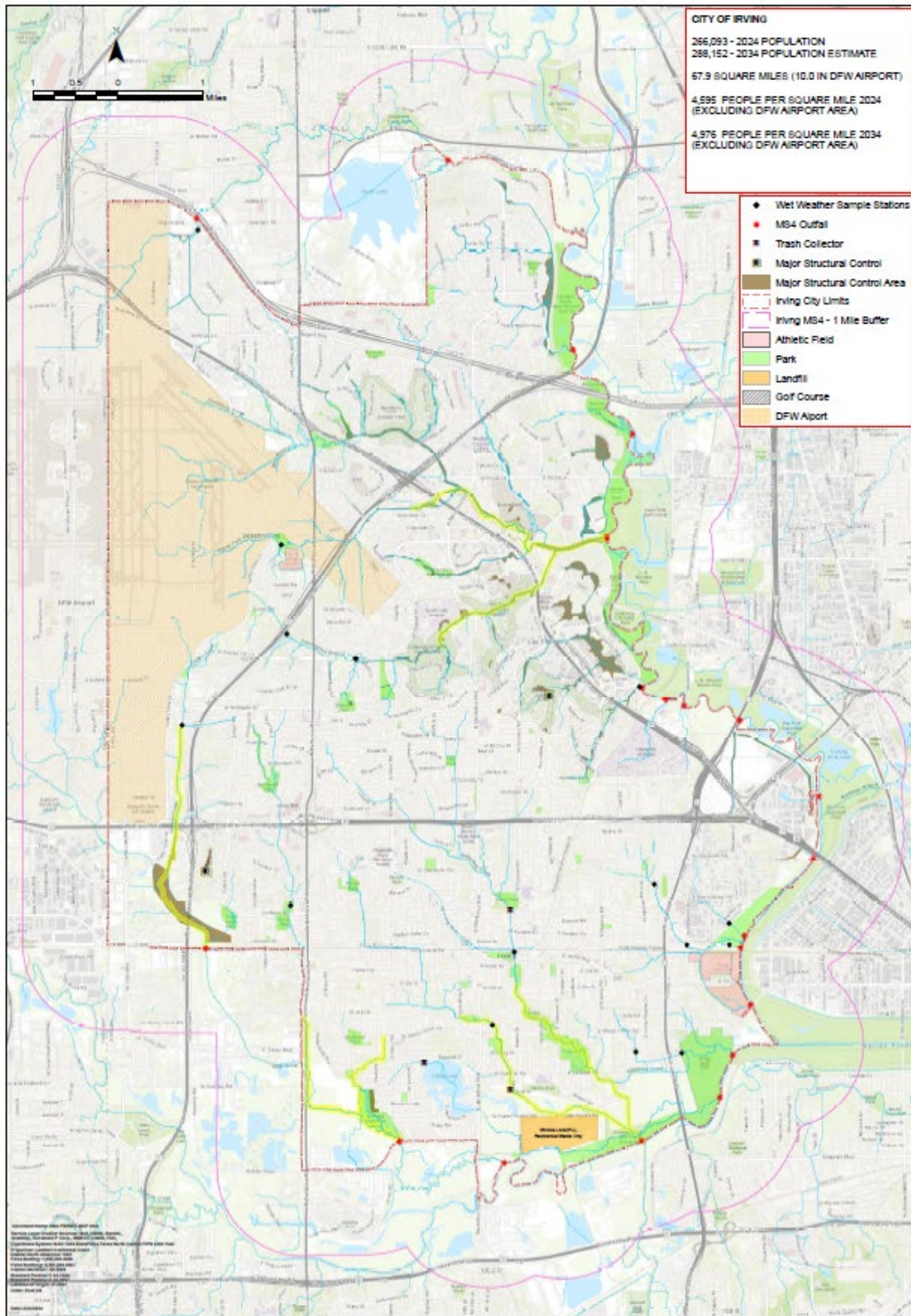


**The following applies only to applications for New TPDES permits and Major Amendments to TPDES Permits:**

14. List construction dates of any buildings or structures on the property:

-----

15. Provide a brief history of the property, and name of the architect/builder, if known: -----



Geographic Information Systems (GIS) Representation of Land Use:  
 This product is for informational purposes and may not have been prepared  
 for or be suitable for legal, engineering, or planning purposes. It does  
 not represent an on-the-ground survey and represents only the approximate  
 relative location of property boundaries and other geographic features.  
 All data, specifically including the geographic data herein, are provided  
 "as is" without warranty of any kind, either expressed or implied. No  
 information is the sole responsibility of the user.

# Comisión de Calidad Ambiental del Estado de Texas



## AVISO DE RECIBO DE LA SOLICITUD E INTENCION DE OBTENER UN PERMISO PARA EL SISTEMA SEPARADO MUNICIPAL DE AGUAS PLUVIALES (MS4) [NUEVO/MODIFICACION/RENOVACION]

**PERMISO NO. WQ0004691000**

**SOLICITUD.** Ciudad de Irving, 825 West Irving Boulevard, Irving, Texas 75060; Distrito 1 de Control de Inundaciones del Condado de Dallas, 210 Highland Park Drive, Irving, Texas 75061; Distrito de Utilidades y Recuperación del Condado de Dallas, 850 Las Colinas Boulevard East, Irving, Texas 75039; Sección 1 del Distrito de Control de Inundaciones de Irving, P.O. Box 140035, Irving, Texas 75014; Sección 3 del Distrito de Control de Inundaciones de Irving, 850 Las Colinas Boulevard East, Irving, Texas 75039 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas in inglés) para renovar el Permiso No. WQ0004691000 del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) (EPA I.D. No. TXS 001301) para autorizar las descargas del sistema separado municipal de aguas pluviales ubicada dentro de los límites corporativos de la Ciudad de Irving, a excepción de los terrenos de agricultura, en el Condado de Dallas, Texas 75038, 75039, 75050, y 75060-75063. La ruta de descarga es del sistema individual municipal de aguas pluviales a las aguas superficiales del Estado. TCEQ recibió esta solicitud el día 4 de junio del 2024. La solicitud, incluyendo actualizaciones, y avisos pertinentes están disponibles electrónicamente en el siguiente sitio Web: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

Mayor información puede ser obtenida de la Ciudad de Irving, Distrito 1 de Control de Inundaciones del Condado de Dallas, Distrito de Utilidades y Recuperación del Condado de Dallas, Sección 1 del Distrito de Control de Inundaciones de Irving, y Sección 3 del Distrito de Control de Inundaciones de Irving, en la dirección indicada arriba o llamando al Sr. Cody Cash, GIT, CFM, MDU Supervisor de Programas, Ciudad de Irving, al 972-721-4760.

*Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary and is an application for a new facility, a major amendment which will increase the pollutant loads to coastal waters or would result in relocation of an outfall to a critical area, or a renewal with such a major amendment. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31*

*TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. If the application is for amendment that does not meet the above description or a renewal without such a major amendment, do not include the sentence:* El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**AVISO ADICIONAL.** El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

**COMENTARIO PUBLICO / REUNION PUBLICA.** Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.** Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

**PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS:** su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con



**respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.**

**Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. *[For renewal applications that **do not** include a major amendment, include the following sentence:]* Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

**LISTA DE CORREO.** Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

**CONTACTOS E INFORMACIÓN A LA AGENCIA.** Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía <https://www14.tceq.texas.gov/epic/eComment/> o por escrito dirigidos a la **Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087.** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional a la Ciudad de Irving, Distrito 1 de Control de Inundaciones del Condado de Dallas, Distrito de Utilidades y Recuperación del Condado de Dallas, Sección 1 del Distrito de Control de Inundaciones de Irving, y Sección 3 del Distrito de Control de Inundaciones de Irving a la dirección indicada arriba o llamando a Mr. Cody Cash, GIT, CFM al 972-721-4760.

Fecha de emisión \_\_\_\_\_ *[Date notice issued]*