



Technical 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. Second notice (NAPD-Notice of Preliminary Decision)
 - English
 - Alternative Language (Spanish)
 4. Application materials
 5. Draft permit
 6. Technical summary or fact sheet
-



Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
 - Inglés
 - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
 - Inglés
 - Idioma alternativo (español)
4. Materiales de la solicitud
5. Proyecto de permiso
6. Resumen técnico u hoja de datos



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by [Title 30, Texas Administrative Code \(30 TAC\), Chapter 39, Subchapter H](#). Applicants 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 highlighted areas below to describe your facility and application in plain language. 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 TAC Section 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**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/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 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

North Texas Municipal Water District (CN601365448) operates Floyd Branch Regional Wastewater Treatment Plant (RN102097177), a domestic wastewater treatment plant. The facility is located at 111 East Buckingham Road, in Richardson, Dallas County, Texas 75081. The application is for a major amendment to request the removal of lead and copper effluent limitations and monitoring requirements from the Domestic Wastewater Permit WQ0010257001, which authorizes the treatment of domestic wastewater and discharge of 4,750,000 gallons per day of treated effluent.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (CBOD), Total Suspended Solids (TSS), Ammonia Nitrogen, and *E. coli*. Additional potential pollutants are included in the Domestic Technical Reports 1.0, Section 7 Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application. Domestic wastewater is treated by an advanced secondary plant consisting of a mechanical bar screen, three clarifiers, two trickling filters, a final clarifier, a primary clarifier, two aeration basins

operating in plug flow mode, two secondary clarifiers, two traveling bridge dual media filters, and 3 channels of ultraviolet light disinfection. Sludge from the clarifiers and clarigesters are processed with a sludge holding tank, a magnetite feeder silo, a ballast mix tank, a sheer mill, two magnetic drum separators, post recovery tank, a gravity belt thickener, and a belt filter press. The dewatered sludge is disposed at the NTMWD 121 Regional Disposal Facility.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS /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 es una representación ejecutiva fedérale de la solicitud de permiso.

North Texas Municipal Water District (CN601365448) opera Floyd Branch Regional Wastewater Treatment Plant (RN10207177), una planta de tratamiento de aguas residuales domésticas. La instalación está ubicada en 111 East Buckingham Road, en Richardson, Condado de Dallas, Texas 75081. La solicitud es para una enmienda importante para solicitar la eliminación de las limitaciones y requisitos de monitoreo de efluentes de plomo y cobre del Permiso de Aguas Residuales Domésticas WQ0010257001, que autoriza el tratamiento de aguas residuales domésticas y la descarga de 4,750,000 galones por día de efluentes tratados.

Se espera que las descargas de la instalación contengan Demanda Bioquímica Carbonácea de Oxígeno (CBOD), Sólidos Suspendidos Totales (TSS), Nitrógeno Amoniacal y *E. coli*. Se incluyen contaminantes potenciales adicionales en los Informes Técnicos Nacionales 1.0, Sección 7 Análisis de Contaminantes del Efluente Tratado y la Hoja de Trabajo Doméstico 4.0 en la solicitud de permiso. Aguas residuales domésticas está tratado por una planta secundaria avanzada que consta de una criba de barras mecánica, tres clarigesteres, dos filtros percoladores, un clarificador final, un clarificador primario, dos tanques de aireación que funcionan en modo de flujo pistón, dos clarificadores secundarios, dos filtros de doble medio de puente móvil y 3 canales de desinfección con luz ultravioleta. Los lodos de los clarificadores y clarigesteres se procesan con un tanque de retención de lodos, un silo alimentador de magnetita, un tanque de mezcla de lastre, un molino de corte, dos separadores de tambor magnético, un tanque de recuperación posterior, un espesador de cinta por gravedad y un filtro prensa de cinta. El lodo deshidratado se elimina en la instalación de eliminación regional NTMWD 121.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT AMENDMENT

PERMIT NO. WQ0010257001

APPLICATION. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, has applied to the Texas Commission on Environmental Quality (TCEQ) to amend Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010257001 (EPA I.D. No. TX0023931) to authorize removing lead and copper effluent limitations and monitoring requirements. The domestic wastewater treatment facility is located at 111 East Buckingham Road, Richardson, in Dallas County, Texas 75081. The discharge route is from the plant site to Floyd Branch; thence to Cottonwood Creek; thence to White Rock Creek; thence to White Rock Lake. TCEQ received this application on May 1, 2024. The permit application will be available for viewing and copying at Richardson Public Library, 2360 Campbell Creek Boulevard, Suite 500, Richardson, in Dallas County, 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>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.739166,32.9375&level=18>

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. 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. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from North Texas Municipal Water District at the address stated above or by calling Mr. Jerry Allen, Permitting Manager, at 469-626-4634.

Issuance Date: June 20, 2024

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA MODIFICACION

PERMISO NO. WQ0010257001

SOLICITUD. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0010257001 (EPA I.D. No. TX0023931) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar eliminación de las limitaciones de efluentes de plomo y cobre y los requisitos de monitoreo. La planta está ubicada 111 East Buckingham Road, Richardson, en el Condado de Dallas, Texas. La ruta de descarga es del sitio de la planta a Floyd Branch; de allí a Cottonwood Creek; de allí a White Rock Creek; de allí al lago White Rock. La TCEQ recibió esta solicitud el 1 de mayo de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Pública de Richardson, 2360 Campbell Creek Boulevard, Suite 500, Richardson, en el Condado de Dallas, 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>. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.739166,32.9375&level=18>

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.

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 <http://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 del North Texas Municipal Water District a la dirección indicada arriba o llamando a Jerry Allen al 469-626-4634.

Fecha de emission: 20 de junio de 2024

Texas Commission on Environmental Quality



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER

AMENDMENT

PERMIT NO. WQ0010257001

APPLICATION AND PRELIMINARY DECISION. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010257001, to remove the lead and copper effluent limitations and monitoring requirements from the existing permit based on the lab analysis data. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4,750,000 gallons per day. TCEQ received this application on May 1, 2024.

The facility is located at 111 East Buckingham Road, in the City of Richardson, Dallas County, Texas 75081. The treated effluent is discharged to Floyd Branch, thence to Cottonwood Creek, thence to White Rock Creek, thence to White Rock Lake in Segment No. 0827 of the Trinity River Basin. The unclassified receiving water uses are minimal aquatic life use for Floyd Branch, and intermediate aquatic life use for Cottonwood Creek and White Rock Creek. The designated uses for Segment No. 0827 are primary contact recreation and high aquatic life use. In accordance with 30 Texas Administrative Code § 307.5 and the Implementation Procedures (IPs), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Cottonwood Creek and White Rock Creek, which have been identified as having intermediate aquatic life uses, and White Rock Lake, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.739166,32.9375&level=18>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Richardson Public Library, 2360 Campbell Creek Boulevard, Suite 500, Richardson, in Dallas County, Texas 75082. 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/plain-language-summaries-and-public-notice>. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notice>.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds 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 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 a contested case hearing or reconsideration of the Executive Director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a 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.**

EXECUTIVE DIRECTOR ACTION. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at www.tceq.texas.gov/goto/comment within 30 days from the date of newspaper publication of this notice.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at 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. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, 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. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. 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. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from North Texas Municipal Water District at the address stated above or by calling Mr. Jerry Allen, Permitting Manager, at 469-626-4634.

Issuance Date: November 25, 2025

Comisión De Calidad Ambiental Del Estado De Texas



AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACIÓN DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES MUNICIPALES

MODIFICACION

PERMISO NO. WQ0010257001

SOLICITUD Y DECISIÓN PRELIMINAR. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) una modificación importante al Permiso No. WQ0010257001, para eliminar los límites de efluentes de plomo y cobre y los requisitos de monitoreo del permiso existente en función de los datos del análisis de laboratorio. El permiso actual autoriza la descarga de aguas residuales domésticas tratadas a un flujo promedio anual que no exceda los 4,750,000 galones por día. TCEQ recibió esta solicitud el 1 de mayo de 2024.

La instalación está ubicada en 111 East Buckingham Road, en la ciudad de Richardson, condado de Dallas, Texas 75081. El efluente tratado se descarga a Floyd Branch, de allí a Cottonwood Creek, de allí a White Rock Creek, de allí a White Rock Lake en el segmento No. 0827 de la cuenca del río Trinity River. Los usos del agua receptora no clasificada son para un mínimo de vida acuática en Floyd Branch e intermedio de vida acuática en Cottonwood Creek y White Rock Creek. Los usos designados para el Segmento No. 0827 son la recreación de contacto primario y vida acuática alta. De acuerdo con el Código Administrativo 30 de Texas § 307.5 y los Procedimientos de Implementación (IP), se realizó una revisión de antidegradación de las aguas receptoras. Una revisión de antidegradación de Nivel 1 ha determinado preliminarmente que los usos existentes de la calidad del agua no se verán afectados por esta acción del permiso. Se mantendrán los criterios numéricos y narrativos para proteger los usos existentes. Una revisión de Nivel 2 ha determinado preliminarmente que no se espera una degradación significativa de la calidad del agua en Cottonwood Creek y White Rock Creek, que han sido identificados como de mediano uso para la vida acuática, y White Rock Lake, que ha sido identificado como de alto uso para la vida acuática. Los usos existentes se mantendrán y protegerán. La determinación preliminar puede ser reexaminada y puede modificarse si se recibe nueva información. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la aplicación.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.739166,32.9375&level=18>

El Director Ejecutivo de TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. Si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en la Biblioteca Pública de Richardson, 2360 Campbell Creek Boulevard, Suite 500, Richardson, en el condado de Dallas, Texas 75082. La solicitud incluyendo actualizaciones y avisos está disponible electrónicamente en la siguiente página web:

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

AVISO DE LENGUAJE ALTERNATIVO. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notice>.

COMENTARIO PÚBLICO / REUNIÓN PÚBLICA. 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 de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará los comentarios y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. A menos que la solicitud sea remitida directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que enviaron comentarios públicos y a aquellas personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o reconsiderar la decisión del Director Ejecutivo. Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

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 por qué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración en 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.**

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia de caso impugnado oportunamente o una solicitud de reconsideración. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el Director Ejecutivo no emitirá la aprobación final del permiso y enviará la solicitud y la solicitud a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista (s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación.

Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a <https://www.tceq.texas.gov/goto/comment> dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en <https://www.tceq.texas.gov/goto/cid/>. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a <https://www.tceq.texas.gov/goto/comment>, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en <https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation>. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Distrito Municipal de Agua del Norte de Texas a la dirección indicada arriba o llamando al Sr. Jerry Allen, Gerente de Permisos, al 469-626-4634.

Fecha de emisión: 25 de noviembre de 2025



Regional. Reliable. Everyday.

April 30, 2024

Executive Director
Applications Review and Processing Team (MC-148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

**Via Fed Ex Tracking No. 817742922973
and TCEQ FTP Server**

Re: Domestic Wastewater Permit Application
Applicant Name: North Texas Municipal Water District (CN601365448)
Permit Number: WQ0010257001 (EPA I.D. No. TX0023931)
Site Name: Floyd Branch Regional WWTP (RN102097177)
Type of Application: Major Amendment with Renewal

Dear Sir/Madam:

Enclosed are one original and three copies of the TCEQ Domestic Wastewater Permit Application of the Texas Pollutant Discharge Elimination System Permit No. WQ0010257001 for Floyd Branch Regional Wastewater Treatment Plant (RWWTP), which is owned and operated by the North Texas Municipal Water District. The permit application was also submitted electronically via TCEQ's file transfer protocol server at WQDeCopy@tceq.texas.gov. NTMWD requests a Major Amendment of the TPDES Permit to remove the lead and copper effluent limitations and monitoring requirements. No changes are being made to the currently permitted phasing or flow.

Payment of the application fee was submitted under separate cover on January 12, 2024, and a copy of the ePay Voucher Receipt is included in the application.

Thank you for considering this request. If you need any additional information, please contact me at (469) 626-4634.

Sincerely,



Jerry Allen
Permitting Manager

JA/sb

Enclosures:

xc: Hunter Stephens, NTMWD
Morgan Dadgostar, NTMWD
R.J. Muraski, NTMWD
Lauren Kalisek, Lloyd Gosselink Rochelle & Townsend, P.C



FLOYD BRANCH REGIONAL WASTEWATER TREATMENT PLANT

2024 Domestic Wastewater Permit Application For Major Amendment With Renewal

TABLE OF CONTENTS	
CONTENTS	TAB NUMBER
Administrative Report 1.0.....	1
Administrative Report 1.1.....	2
Checklist of Common Deficiencies.....	3
Technical Report 1.0.....	4
Technical Report 1.1.....	5
Worksheet 2.0 Receiving Waters.....	6
Worksheet 4.0 Pollutant Analyses Requirements.....	7
Worksheet 5.0 Toxicity Testing Requirements.....	8
Worksheet 6.0 Industrial Waste Contribution.....	9
Attachment 1 ePay Voucher Receipt.....	10
Attachment 2 Proposed Changes.....	11
Attachment 3 Core Data Form.....	12
Attachment 4 Plain Language Summary.....	13
Attachment 5 Public Involvement Plan Form.....	14
Attachment 6 Lease Agreement.....	15
Attachment 7 USGS Topographic Map.....	16
Attachment 8 Landowners Map.....	17
Attachment 9 Original Photographs.....	18
Attachment 10 Buffer Zone Map.....	19
Attachment 11 Treatment Process Description.....	20
Attachment 12 Treatment Units.....	21
Attachment 13 Process Flow Diagram.....	22
Attachment 14 Site Drawing.....	23
Attachment 15 Buffer Zone Requirements.....	24
Attachment 16 Other Requirements.....	25
Attachment 17 Pollutant Analysis of Treated Effluent.....	26
Attachment 18 Service Area Map.....	27
Attachment 19 Table 6.0(1) - Parameters Above the MAL.....	28
Attachment 20 Supplemental Permit Information Form.....	29
Attachment 21 Landowner Labels.....	30



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: North Texas Municipal Water District [Floyd Branch RWWTP]

PERMIT NUMBER (If new, leave blank): WQ00 10257001

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SPIF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Public Involvement Plan Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Worksheet 4.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 5.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 6.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>			

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____

TAB 1



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

For any questions about this form, please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input checked="" type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: N/A
Check/Money Order Amount: N/A
Name Printed on Check: N/A
EPAY Voucher Number: 680526 and 680527; See Attachment 1
Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

- ☒ Publicly-Owned Domestic Wastewater
☐ Privately-Owned Domestic Wastewater
☐ Conventional Wastewater Treatment

b. Check the box next to the appropriate facility status.

- ☒ Active ☐ Inactive

c. Check the box next to the appropriate permit type.

- ☒ TPDES Permit
☐ TLAP
☐ TPDES Permit with TLAP component
☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☐ New
☒ Major Amendment with Renewal
☐ Major Amendment without Renewal
☐ Renewal without changes
☐ Minor Amendment with Renewal
☐ Minor Amendment without Renewal
☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: To request the removal of the lead and copper effluent limitations and monitoring requirements. No changes are being requested to the currently permitted phasing or flow limitations. See Attachment 2 for a discussion of the request for the proposed changes.

f. For existing permits:

Permit Number: WQ00 10257001

EPA I.D. (TPDES only): TX 0023931

Expiration Date: 10/8/2023

Section 3. Facility Owner (Applicant) and Co-Applclicant Information (Instructions Page 26)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

North Texas Municipal Water District

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?

You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN: 601365448

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: Ms.

Last Name, First Name: Covington, Jennafer

Title: Executive Director/General Manager Credential: P.E.

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

N/A

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: <http://www15.tceq.texas.gov/crpub/>

CN: N/A

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Provide a brief description of the need for a co-permittee: N/A

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. **Attachment 3**

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Mr.

Last Name, First Name: Allen, Jerry

Title: Permitting Manager

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas 75098

Phone No.: 469-626-4634

E-mail Address: jallen@ntwmd.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms.

Last Name, First Name: Burns, Sarah

Title: Permit Coordinator

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas 75098

Phone No.: 469-626-4632

E-mail Address: sburns@ntmwd.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr.

Last Name, First Name: Allen, Jerry

Title: Permitting Manager

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4634

E-mail Address: jallen@ntmwd.com

B. Prefix: Ms.

Last Name, First Name: Burns, Sarah

Title: Permit Coordinator

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4632

E-mail Address: sburns@ntmwd.com

Section 6. Billing Contact Information (Instructions Page 27)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Mr.

Last Name, First Name: Stephens, Hunter

Title: Assistant Deputy- Wastewater Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4921

E-mail Address: hstephens@ntmwd.com

Section 7. DMR/MER Contact Information (Instructions Page 27)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (DMR) (EPA 3320-1) or maintain Monthly Effluent Reports (MER).

Prefix: Mr.

Last Name, First Name: Stephens, Hunter

Title: Assistant Deputy- Wastewater Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4921

E-mail Address: hstephens@ntmwd.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr.

Last Name, First Name: Allen, Jerry

Title: Permitting Manager

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4634

E-mail Address: jallen@ntmwd.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr.

Last Name, First Name: Allen, Jerry

Title: Permitting Manager

Credential: N/A

Organization Name: North Texas Municipal Water District

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas, 75098

Phone No.: 469-626-4634

E-mail Address: jallen@ntmwd.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Richardson Public Library

Location within the building: Reference Section

Physical Address of Building: 2360 Campbell Creek Blvd, Suite 500

City: Richardson

County: Dallas

Contact (Last Name, First Name): Hanna Jurecki

Phone No.: 972-744-4777 Ext.: N/A

E. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☒ Yes

☐ No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

☐ Yes

☒ No

3. Do the students at these schools attend a bilingual education program at another location?

☒ Yes ☐ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: Attachment 4

G. Public Involvement Plan Form

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.

Attachment: Attachment 5

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN 102097177

Search the TCEQ's Central Registry at <http://www15.tceq.texas.gov/crpub/> to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Floyd Branch Regional Wastewater Treatment Plant

C. Owner of treatment facility: North Texas Municipal Water District

Ownership of Facility: ☒ Public ☐ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: City of Richardson

Mailing Address: 411 West Arapaho Road City, State, Zip Code: Richardson, Texas, 75080

Phone No.: 972-744-4100 E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Attachment 6

E. Owner of effluent disposal site:

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☒ Yes ☐ No

If **no**, or a new permit application, please give an accurate description:

N/A

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☒ Yes ☐ No

If **no**, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

N/A

City nearest the outfall(s): Richardson

County in which the outfalls(s) is/are located: Dallas

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

- ☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: N/A

- D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Dallas, Ellis, Navarro, Kaufman, Henderson, Freestone, Anderson

Section 11. TLAP Disposal Information (Instructions Page 32)

- A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

N/A

- B. City nearest the disposal site: N/A

- C. County in which the disposal site is located: N/A

- D. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

N/A

- E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: N/A

Section 12. Miscellaneous Information (Instructions Page 32)

- A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

- B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

N/A

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☒ Yes ☐ No

If **yes**, please provide the following information:

Enforcement order number: 2019-1212-MLM-E

Amount past due: \$0

Section 13. Attachments (Instructions Page 33)

Indicate which attachments are included with the Administrative Report. Check all that apply:

- ☒ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☒ Original full-size USGS Topographic Map with the following information: **See Attachment 7**
 - Applicant's property boundary
 - Treatment facility boundary
 - Labeled point of discharge for each discharge point (TPDES only)
 - Highlighted discharge route for each discharge point (TPDES only)
 - Onsite sewage sludge disposal site (if applicable)
 - Effluent disposal site boundaries (TLAP only)
 - New and future construction (if applicable)
 - 1 mile radius information
 - 3 miles downstream information (TPDES only)
 - All ponds.
- ☐ Attachment 1 for Individuals as co-applicants
- ☒ Other Attachments. Please specify: See first page of application packet titled "Table of Contents"

Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number: WQ0010257001

Applicant: North Texas Municipal Water District

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Jennafer P. Covington

Signatory title: Executive Director/ General Manager

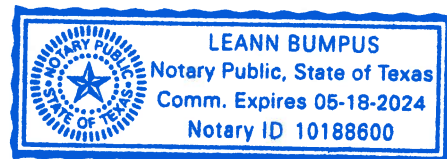
Signature:  Date: 4/23/2024
(Use blue ink)

Subscribed and Sworn to before me by the said Jennafer Covington
on this 23rd day of April, 2024.
My commission expires on the 18th day of May, 2024.


Notary Public

[SEAL]


County, Texas



TAB 2

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable: **See Attachment 8**
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☐ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☒ Four sets of labels **See Attachment 21**
- D. Provide the source of the landowners' names and mailing addresses: Dallas County CAD
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes
 - ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

N/A

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided. **See Attachment 9**

- ☐ At least one original photograph of the new or expanded treatment unit location
- ☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.
- ☐ At least one photograph of the existing/proposed effluent disposal site
- ☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels. **See Attachment 10**

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☐ Ownership
- ☐ Restrictive easement
- ☒ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

- ☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: Attachment 20

TAB 3

CHECKLIST OF COMMON DEFICIENCIES

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been addressed.

Core Data Form (TCEQ Form No. 10400) ☒ Yes
(Required for all application types. Must be completed in its entirety and signed.
Note: Form may be signed by applicant representative.)

Correct and Current Industrial Wastewater Permit Application Forms ☒ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☒ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full-size map if seeking "New" permit.
8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement ☐ N/A ☒ Yes

Landowners Map ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 - Blue Ink Preferred ☒ Yes
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

Plain Language Summary ☒ Yes

TAB 4



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 4.75

2-Hr Peak Flow (MGD): 10

Estimated construction start date: 1986

Estimated waste disposal start date: 1986

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 1955

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

See Attachment 11

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of **each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment 12		

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Attachment: **See Attachment 13**

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: 32.936389
- Longitude: -96.739167

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: N/A
- Longitude: N/A

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

Attachment: **See Attachment 14**

Provide the name **and** a description of the area served by the treatment facility.

The south-central half of the City of Richardson is served by Floyd Branch RWWTP, which encompasses the approximate area from the north of Walnut Street, east of Floyd Rd, west of N. Grove Rd. and Audelia Rd, and south of Campbell Rd.

Collection System Information for wastewater TPDES permits only: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Floyd Branch Basin Collection System	City of Richardson	Publicly Owned	20,000
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If **yes**, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If **yes**, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.**

N/A

Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☒ Yes ☐ No

If **yes**, was a closure plan submitted to the TCEQ?

☐ Yes ☒ No

If **yes**, provide a brief description of the closure and the date of plan approval.

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☒ Yes ☐ No

If **yes**, provide the date(s) of approval for each phase: Existing Phase: 1985

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable.**

Plans and specifications for the Existing Phase were approved in 1985. We do not have a copy of the approval letter.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

See Attachment 15

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☒ Yes ☐ No

If **yes**, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

Other Requirement 7 granted an extension of temporary variance to the Texas Surface Water Quality Standard for dissolved copper while the site-specific standard is pending. The revision was approved on August 18, 2023. To meet the conditions of this OR No. 7, we have submitted this application for a major amendment to request a revision of the existing total copper effluent limitations in the current permit. See Attachment 16

D. Grit and grease treatment

1. *Acceptance of grit and grease waste*

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If **No**, stop here and continue with Subsection E. Stormwater Management.

2. *Grit and grease processing*

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

N/A

3. *Grit disposal*

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If **No**, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

N/A

E. Stormwater management

1. Applicability

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☒ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☒ Yes ☐ No

If **no to both of the above**, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☒ Yes ☐ No

If **yes**, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 U129 or TXRNE N/A

If **no**, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☒ No

If **yes**, please explain below then proceed to Subsection F, Other Wastes Received:

N/A

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

N/A

5. Zero stormwater discharge

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☒ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

N/A

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☒ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

N/A

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
N/A

G. Other wastes received including sludge from other WWTPs and septic waste

1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☐ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If **yes**, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

N/A

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

See Attachment 17

☒ Yes ☐ No

If **no**, this section is not applicable. Proceed to Section 8.

If **yes**, provide effluent analysis data for the listed pollutants. **Wastewater treatment facilities** complete Table 1.0(2). **Water treatment facilities** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	N/A	<2.2	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Total Suspended Solids, mg/l	N/A	<0.5	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Ammonia Nitrogen, mg/l	N/A	<0.05	1	Composite	03/20/2024 08:20 03/21/2024 08:20

Nitrate Nitrogen, mg/l	N/A	23.2	1	Composite	06/14/2023 9:00 06/15/2023 9:00
Total Kjeldahl Nitrogen, mg/l	N/A	0.795	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Sulfate, mg/l	N/A	134	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Chloride, mg/l	N/A	86.5	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Total Phosphorus, mg/l	N/A	1.65	1	Composite	03/20/2024 08:20 03/21/2024 08:20
pH, standard units	N/A	7.51	1	Grab	03/21/2024 08:27
Dissolved Oxygen*, mg/l	N/A	8.26	1	Grab	03/21/2024 08:27
Chlorine Residual, mg/l	N/A	<0.04	1	Grab	03/21/2024 08:27
<i>E.coli</i> (CFU/100ml) freshwater	N/A	1	1	Grab	03/21/2024 08:27
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	615	1	Composite	03/20/2024 08:20 03/21/2024 08:20
Electrical Conductivity, μ mohs/cm, †	N/A	965	1	Grab	03/21/2024 08:27
Oil & Grease, mg/l	N/A	<2.22	1	Grab	03/21/2024 08:27
Alkalinity (CaCO ₃)*, mg/l	N/A	178	1	Composite	03/20/2024 08:20 03/21/2024 08:20

*TPDES permits only

†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Jason Pittsinger

Facility Operator's License Classification and Level: Class A Wastewater License

Facility Operator's License Number: WW0033497

Section 9. Sludge and Biosolids Management and Disposal

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow \geq 1 MGD
- ☐ Serves \geq 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user - land application (onsite)
- ☐ Biosolids end user - surface disposal (onsite)
- ☐ Biosolids end user - incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (≥ 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: Disposed at NTMWD 121 Regional Disposal Facility

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Disposed at NTMWD 121 Regional Disposal Facility

D. Disposal site

Disposal site name: NTMWD 121 Regional Disposal Facility

TCEQ permit or registration number: MSW No. 2294

County where disposal site is located: Collin

E. Transportation method

Method of transportation (truck, train, pipe, other): Truck

Name of the hauler: North Texas Municipal Water District

Hauler registration number: 22488

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☐ solid ☒

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

If **yes** to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:
Attachment: N/A
- USDA Natural Resources Conservation Service Soil Map:
Attachment: N/A
- Federal Emergency Management Map:
Attachment: N/A
- Site map:
Attachment: N/A

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: N/A

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

N/A

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0*.

Nitrate Nitrogen, mg/kg: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: N/A

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

Total dry tons stored in the lagoons(s) per 365-day period: N/A

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

N/A

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

N/A

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: N/A
- Copy of the closure plan
Attachment: N/A
- Copy of deed recordation for the site
Attachment: N/A
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: N/A
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: N/A
- Procedures to prevent the occurrence of nuisance conditions
Attachment: N/A

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☒ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: N/A

Section 12. Authorizations/Compliance/Enforcement (Instructions)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☐ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☒ Yes ☐ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

During an investigation conducted on June 18, 2020, it was documented that Floyd Branch RWWTP failed to prevent unauthorized discharge of sewage wastewater into or adjacent to any water in the state. The TCEQ recognized that corrective actions were implemented for unauthorized discharges. The enforcement order was issued on March 31, 2023. A Supplemental Environmental Project (SEP) Agreement was conditionally approved to offset the penalty. The Notice of Commencement was due 30 days from the effective order date and was submitted on April 28, 2023. The first update on actions completed was due 90 days from the effective order and was submitted June 29, 2023. The next update was due 180 days from the effective order. On October 2, 2023, an extension was filed for SEP completion to extend the deadline to July 17, 2024.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)**A. RCRA hazardous wastes**

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
 - periodically inspected by the TCEQ; or
 - located in another state and is accredited or inspected by that state; or
 - performing work for another company with a unit located in the same site; or
 - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: Jennafer P. Covington

Title: Executive Director/General Manager

Signature: _____

Date: _____


4/23/2024

TAB 5

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

N/A – The amendment requests a modification of the permit effluent limitations and monitoring requirements. No changes are being requested to the currently permitted phasing or flow limitations and this section of the application is not applicable and will not be completed.

B. Regionalization of facilities

For additional guidance, please review [TCEQ's Regionalization Policy for Wastewater Treatment](#)¹.

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: N/A

2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☐ No

¹ <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

If **yes**, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: N/A

3. *Nearby WWTPs or collection systems*

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If **yes**, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: N/A

If **yes**, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: N/A

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: N/A

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

If **no**, proceed to Item B, Proposed Organic Loading.

If **yes**, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): N/A

Average Influent Organic Strength or BOD₅ Concentration in mg/l: N/A

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): N/A

Provide the source of the average organic strength or BOD₅ concentration.

N/A

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Municipality	N/A	N/A
Subdivision	N/A	N/A
Trailer park – transient	N/A	N/A
Mobile home park	N/A	N/A
School with cafeteria and showers	N/A	N/A
School with cafeteria, no showers	N/A	N/A
Recreational park, overnight use	N/A	N/A
Recreational park, day use	N/A	N/A
Office building or factory	N/A	N/A
Motel	N/A	N/A
Restaurant	N/A	N/A
Hospital	N/A	N/A
Nursing home	N/A	N/A
Other	N/A	N/A
TOTAL FLOW from all sources	N/A	N/A
AVERAGE BOD ₅ from all sources	N/A	N/A

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: N/A mg/l after N/A minutes detention time at peak flow

Dechlorination process: N/A

☐ Ultraviolet Light: N/A seconds contact time at peak flow

☐ Other: N/A

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: N/A

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If **no**, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

N/A

Provide the source(s) used to determine 100-year frequency flood plain.

N/A

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If **yes**, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If **yes**, provide the permit number: N/A

If **no**, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose: N/A

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If **yes**, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: N/A

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

If **any of the above**, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: N/A

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: N/A

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

TAB 6

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed to Section 2. If **yes**, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

Attach a USGS map that identifies the location of the intake.

Attachment: N/A

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. If **yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from outfall(s).

N/A

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s).

N/A

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☒ No

If **yes**, this Worksheet is complete.

If **no**, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Floyd Branch

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

Average depth of water body within a 500-foot radius of discharge point, in feet: N/A

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: N/A

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: N/A

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Cottonwood Creek (Segment No. 0827B)

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

☒ Yes ☐ No

If yes, discuss how.

A dam is located approximately 0.9 miles downstream from the Floyd Branch RWWTP outfall. Floyd Branch flows into Cottonwood Creek, a perennial stream, approximately 2.7 miles downstream.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

The stream upstream of the point of discharge has been channelized and is located in an urbanized area. Much of the stream bank is steep and constructed of mason and/or concrete walls or is a concrete ditch. Eventually the stream changes to an underground stormwater pipeline. The stream banks may also contain grass, shrub and tree cover. The bank-full width from wall to wall is approximately 10-20 meters. The stream channel is approximately 5 meters wide. The streambed is composed of rock, silt, and gravel unless it is a concrete ditch. Filamentous algae observed along the streambed. An abundance of garbage was observed along the stream. There are a few locations that would form riffles when water is flowing. When water is present pools will form at several bridges.

Date and time of observation: 9/30/2022 @ 9:47 am

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

- | | |
|---|--|
| <input type="checkbox"/> Oil field activities | <input checked="" type="checkbox"/> Urban runoff |
| <input type="checkbox"/> Upstream discharges | <input type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> Other(s), specify: <u>N/A</u> |

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input type="checkbox"/> Other(s), specify: <u>N/A</u> |

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☒ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

TAB 7

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample. [See Attachment 17](#)

Grab ☒ Composite ☒

Date and time sample(s) collected: 06/14/2023 09:00 to 06/15/2023 09:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	N/A	<50	1	50
Aldrin	N/A	<0.01	1	0.01
Aluminum	N/A	9.05	1	2.5
Anthracene	N/A	<10	1	10
Antimony	N/A	<5	1	5
Arsenic	N/A	0.9	1	0.5
Barium	N/A	39.5	1	3
Benzene	N/A	<10	1	10
Benzidine	N/A	<50	1	50
Benzo(a)anthracene	N/A	<5	1	5
Benzo(a)pyrene	N/A	<5	1	5
Bis(2-chloroethyl)ether	N/A	<10	1	10
Bis(2-ethylhexyl)phthalate	N/A	<10	1	10
Bromodichloromethane	N/A	<10	1	10
Bromoform	N/A	<10	1	10
Cadmium	N/A	<1	1	1
Carbon Tetrachloride	N/A	<2	1	2
Carbaryl	N/A	<5	1	5
Chlordane*	N/A	<0.2	1	0.2
Chlorobenzene	N/A	<10	1	10
Chlorodibromomethane	N/A	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	N/A	<10	1	10
Chlorpyrifos	N/A	<0.05	1	0.05
Chromium (Total)	N/A	<3	1	3
Chromium (Tri) (*1)	N/A	<2	1	N/A
Chromium (Hex)	N/A	<3	1	3
Copper	11.33	21.5	118	2
Chrysene	N/A	<5	1	5
p-Chloro-m-Cresol	N/A	<10	1	10
4,6-Dinitro-o-Cresol	N/A	<50	1	50
p-Cresol	N/A	<10	1	10
Cyanide (*2)	N/A	<10	1	10
4,4'- DDD	N/A	<0.1	1	0.1
4,4'- DDE	N/A	<0.1	1	0.1
4,4'- DDT	N/A	<0.02	1	0.02
2,4-D	N/A	<0.7	1	0.7
Demeton (O and S)	N/A	<0.20	1	0.20
Diazinon	N/A	<0.5	1	0.5/0.1
1,2-Dibromoethane	N/A	<10	1	10
m-Dichlorobenzene	N/A	<10	1	10
o-Dichlorobenzene	N/A	<10	1	10
p-Dichlorobenzene	N/A	<10	1	10
3,3'-Dichlorobenzidine	N/A	<5	1	5
1,2-Dichloroethane	N/A	<10	1	10
1,1-Dichloroethylene	N/A	<10	1	10
Dichloromethane	N/A	<20	1	20
1,2-Dichloropropane	N/A	<10	1	10
1,3-Dichloropropene	N/A	<10	1	10
Dicofol	N/A	<1	1	1
Dieldrin	N/A	<0.02	1	0.02
2,4-Dimethylphenol	N/A	<10	1	10
Di-n-Butyl Phthalate	N/A	<10	1	10
Diuron	N/A	<0.09	1	0.09
Endosulfan I (alpha)	N/A	<0.01	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	N/A	<0.02	1	0.02
Endosulfan Sulfate	N/A	<0.1	1	0.1
Endrin	N/A	<0.02	1	0.02
Ethylbenzene	N/A	<10	1	10
Fluoride	N/A	581	1	500
Guthion	N/A	<0.1	1	0.1
Heptachlor	N/A	<0.01	1	0.01
Heptachlor Epoxide	N/A	<0.01	1	0.01
Hexachlorobenzene	N/A	<5	1	5
Hexachlorobutadiene	N/A	<10	1	10
Hexachlorocyclohexane (alpha)	N/A	<0.05	1	0.05
Hexachlorocyclohexane (beta)	N/A	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	N/A	<0.05	1	0.05
Hexachlorocyclopentadiene	N/A	<10	1	10
Hexachloroethane	N/A	<20	1	20
Hexachlorophene	N/A	<10	1	10
Lead	0.035	0.945	117	0.5
Malathion	N/A	<0.1	1	0.1
Mercury	N/A	<0.005	1	0.005
Methoxychlor	N/A	<2	1	2
Methyl Ethyl Ketone	N/A	<50	1	50
Mirex	N/A	<0.02	1	0.02
Nickel	N/A	6.29	1	2
Nitrate-Nitrogen	N/A	23200	1	100
Nitrobenzene	N/A	<10	1	10
N-Nitrosodiethylamine	N/A	<20	1	20
N-Nitroso-di-n-Butylamine	N/A	<20	1	20
Nonylphenol	N/A	<333	1	333
Parathion (ethyl)	N/A	<0.1	1	0.1
Pentachlorobenzene	N/A	<20	1	20
Pentachlorophenol	N/A	<5	1	5
Phenanthrene	N/A	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	N/A	<0.2	1	0.2
Pyridine	N/A	<20	1	20
Selenium	N/A	<5	1	5
Silver	N/A	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	N/A	<20	1	20
1,1,2,2-Tetrachloroethane	N/A	<10	1	10
Tetrachloroethylene	N/A	<10	1	10
Thallium	N/A	<0.5	1	0.5
Toluene	N/A	<10	1	10
Toxaphene	N/A	<0.3	1	0.3
2,4,5-TP (Silvex)	N/A	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	N/A	<10	1	10
1,1,2-Trichloroethane	N/A	<10	1	10
Trichloroethylene	N/A	<10	1	10
2,4,5-Trichlorophenol	N/A	<50	1	50
TTHM (Total Trihalomethanes)	N/A	<10	1	10
Vinyl Chloride	N/A	<10	1	10
Zinc	N/A	27.4	1	5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☒

Composite ☒

Date and time sample(s) collected: 06/14/2023 09:00 to 06/15/2023 09:00

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	N/A	<5	1	5
Arsenic	N/A	0.9	1	0.5
Beryllium	N/A	<0.5	1	0.5
Cadmium	N/A	<1	1	1
Chromium (Total)	N/A	<3	1	3
Chromium (Hex)	N/A	<3	1	3
Chromium (Tri) (*1)	N/A	<2	1	N/A
Copper	N/A	13	1	2
Lead	N/A	<0.5	1	0.5
Mercury	N/A	<0.005	1	0.005
Nickel	N/A	6.29	1	2
Selenium	N/A	<5	1	5
Silver	N/A	<0.5	1	0.5
Thallium	N/A	<0.5	1	0.5
Zinc	N/A	27.4	1	5
Cyanide (*2)	N/A	<10	1	10
Phenols, Total	N/A	<10	1	10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	N/A	<50	1	50
Acrylonitrile	N/A	<50	1	50
Benzene	N/A	<10	1	10
Bromoform	N/A	<10	1	10
Carbon Tetrachloride	N/A	<2	1	2
Chlorobenzene	N/A	<10	1	10
Chlorodibromomethane	N/A	<10	1	10
Chloroethane	N/A	<50	1	50
2-Chloroethylvinyl Ether	N/A	<10	1	10
Chloroform	N/A	<10	1	10
Dichlorobromomethane [Bromodichloromethane]	N/A	<10	1	10
1,1-Dichloroethane	N/A	<10	1	10
1,2-Dichloroethane	N/A	<10	1	10
1,1-Dichloroethylene	N/A	<10	1	10
1,2-Dichloropropane	N/A	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	N/A	<10	1	10
1,2-Trans-Dichloroethylene	N/A	<10	1	10
Ethylbenzene	N/A	<10	1	10
Methyl Bromide	N/A	<50	1	50
Methyl Chloride	N/A	<50	1	50
Methylene Chloride	N/A	<20	1	20
1,1,2,2-Tetrachloroethane	N/A	<10	1	10
Tetrachloroethylene	N/A	<10	1	10
Toluene	N/A	<10	1	10
1,1,1-Trichloroethane	N/A	<10	1	10
1,1,2-Trichloroethane	N/A	<10	1	10
Trichloroethylene	N/A	<10	1	10
Vinyl Chloride	N/A	<10	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	N/A	<10	1	10
2,4-Dichlorophenol	N/A	<10	1	10
2,4-Dimethylphenol	N/A	<10	1	10
4,6-Dinitro-o-Cresol	N/A	<50	1	50
2,4-Dinitrophenol	N/A	<50	1	50
2-Nitrophenol	N/A	<20	1	20
4-Nitrophenol	N/A	<50	1	50
P-Chloro-m-Cresol	N/A	<10	1	10
Pentalchlorophenol	N/A	<5	1	5
Phenol	N/A	<10	1	10
2,4,6-Trichlorophenol	N/A	<10	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	N/A	<10	1	10
Acenaphthylene	N/A	<10	1	10
Anthracene	N/A	<10	1	10
Benzidine	N/A	<50	1	50
Benzo(a)Anthracene	N/A	<5	1	5
Benzo(a)Pyrene	N/A	<5	1	5
3,4-Benzofluoranthene	N/A	<10	1	10
Benzo(ghi)Perylene	N/A	<20	1	20
Benzo(k)Fluoranthene	N/A	<5	1	5
Bis(2-Chloroethoxy)Methane	N/A	<10	1	10
Bis(2-Chloroethyl)Ether	N/A	<10	1	10
Bis(2-Chloroisopropyl)Ether	N/A	<10	1	10
Bis(2-Ethylhexyl)Phthalate	N/A	<10	1	10
4-Bromophenyl Phenyl Ether	N/A	<10	1	10
Butyl benzyl Phthalate	N/A	<10	1	10
2-Chloronaphthalene	N/A	<10	1	10
4-Chlorophenyl phenyl ether	N/A	<10	1	10
Chrysene	N/A	<5	1	5
Dibenzo(a,h)Anthracene	N/A	<5	1	5
1,2-(o)Dichlorobenzene	N/A	<10	1	10
1,3-(m)Dichlorobenzene	N/A	<10	1	10
1,4-(p)Dichlorobenzene	N/A	<10	1	10
3,3-Dichlorobenzidine	N/A	<5	1	5
Diethyl Phthalate	N/A	<10	1	10
Dimethyl Phthalate	N/A	<10	1	10
Di-n-Butyl Phthalate	N/A	<10	1	10
2,4-Dinitrotoluene	N/A	<10	1	10
2,6-Dinitrotoluene	N/A	<10	1	10
Di-n-Octyl Phthalate	N/A	<10	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	N/A	<20	1	20
Fluoranthene	N/A	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	N/A	<10	1	10
Hexachlorobenzene	N/A	<5	1	5
Hexachlorobutadiene	N/A	<10	1	10
Hexachlorocyclo-pentadiene	N/A	<10	1	10
Hexachloroethane	N/A	<20	1	20
Indeno(1,2,3-cd)pyrene	N/A	<5	1	5
Isophorone	N/A	<10	1	10
Naphthalene	N/A	<10	1	10
Nitrobenzene	N/A	<10	1	10
N-Nitrosodimethylamine	N/A	<50	1	50
N-Nitrosodi-n-Propylamine	N/A	<20	1	20
N-Nitrosodiphenylamine	N/A	<20	1	20
Phenanthrene	N/A	<10	1	10
Pyrene	N/A	<10	1	10
1,2,4-Trichlorobenzene	N/A	<10	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	N/A	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	N/A	<0.05	1	0.05
Chlordane	N/A	<0.2	1	0.2
4,4-DDT	N/A	<0.02	1	0.02
4,4-DDE	N/A	<0.1	1	0.1
4,4,-DDD	N/A	<0.1	1	0.1
Dieldrin	N/A	<0.02	1	0.02
Endosulfan I (alpha)	N/A	<0.01	1	0.01
Endosulfan II (beta)	N/A	<0.02	1	0.02
Endosulfan Sulfate	N/A	<0.1	1	0.1
Endrin	N/A	<0.02	1	0.02
Endrin Aldehyde	N/A	<0.1	1	0.1
Heptachlor	N/A	<0.01	1	0.01
Heptachlor Epoxide	N/A	<0.01	1	0.01
PCB-1242	N/A	<0.2	1	0.2
PCB-1254	N/A	<0.2	1	0.2
PCB-1221	N/A	<0.2	1	0.2
PCB-1232	N/A	<0.2	1	0.2
PCB-1248	N/A	<0.2	1	0.2
PCB-1260	N/A	<0.2	1	0.2
PCB-1016	N/A	<0.2	1	0.2
Toxaphene	N/A	<0.3	1	0.3

* For PCBs, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

- ☐ 2,4,5-trichlorophenoxy acetic acid
Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

N/A

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

N/A

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: N/A

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDD	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDDs	0.1	N/A	N/A	N/A	N/A	50
1,2,3,4,6,7,8 HpCDD	0.01	N/A	N/A	N/A	N/A	50
2,3,7,8 TCDF	0.1	N/A	N/A	N/A	N/A	10
1,2,3,7,8 PeCDF	0.05	N/A	N/A	N/A	N/A	50
2,3,4,7,8 PeCDF	0.5	N/A	N/A	N/A	N/A	50
2,3,7,8 HxCDFs	0.1	N/A	N/A	N/A	N/A	50
2,3,4,7,8 HpCDFs	0.01	N/A	N/A	N/A	N/A	50
OCDD	0.0003	N/A	N/A	N/A	N/A	100
OCDF	0.0003	N/A	N/A	N/A	N/A	100
PCB 77	0.0001	N/A	N/A	N/A	N/A	0.5
PCB 81	0.0003	N/A	N/A	N/A	N/A	0.5
PCB 126	0.1	N/A	N/A	N/A	N/A	0.5
PCB 169	0.03	N/A	N/A	N/A	N/A	0.5
Total		N/A	N/A	N/A	N/A	

TAB 8

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: 17

48-hour Acute: 8

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☒ No

If **yes**, describe the progress to date, if applicable, in identifying and confirming the toxicant.

N/A

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
DMRs submitted via NetDMR. Table 1s submitted to TCEQ email WET@tceq.texas.gov			

TAB 9

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs - non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 1

Average Daily Flows, in MGD: 0.009

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☒ Yes ☐ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

On August 11, 2021, a discharge into the Floyd Branch RWWTP caused pass through and interference and resulted in a fish kill in the receiving stream. As a result of continued sewer system surveillance, on August 25, 2021, an industry, identified as Quality Ingredients, was determined by NTMWD to be the source of the discharge on August 11, 2021. Quality Ingredients blended totes of phosphoric and propionic acid and discharged process water as a result of cleaning and rinsing totes.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☒ Yes ☐ No

If **yes**, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

See Section 1.B for description of events

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

If **yes**, complete Section 2.c. and 2.d. only, and skip Section 3.

If **no to either question above**, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: [See Attachment 18](#)

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☒ No

If **yes**, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

N/A

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☒ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

N/A

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
See Attachment 19				

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☒ No

If **yes**, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

N/A

C. Product and service information

Provide a description of the principal product(s) or services performed.

N/A

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: N/A

[Click or tap here to enter text.](#) N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

N/A

TAB 10

ATTACHMENT 1

EPAY VOUCHER RECEIPT

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 680526
Trace Number: 582EA000586797
Date: 01/12/2024 09:04 AM
Payment Method: CC - Authorization 0000084136
Voucher Amount: \$2,000.00
Fee Type: WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR AMENDMENTS
ePay Actor: GARY WARD

Payment Contact Information

Name: GARY WARD
Company: NORTH TEXAS MUNICIPAL WATER DIST
Address: 501 E BROWN STREET WYLIE T, WYLIE, TX 75098
Phone: 469-626-4909

Site Information

Site Name: FLOYD BRANCH RWWTP
Site Address: 111 E BUCKINGHAM RD, RICHARDSON, TX 75081
Site Location: 111 E BUCKINGHAM RD RICHARDSON TX 75081

Customer Information

Customer Name: NORTH TEXAS MUNICIPAL WATER DISTRICT
Customer Address: 501 E BROWN STREET WYLIE T, WYLIE, TX 75098

Other Information

Program Area ID: WQ0010257001

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number: 680527
Trace Number: 582EA000586797
Date: 01/12/2024 09:04 AM
Payment Method: CC - Authorization 0000084136
Voucher Amount: \$50.00
Fee Type: 30 TAC 305.53B WQ NOTIFICATION FEE
ePay Actor: GARY WARD

Payment Contact Information

Name: GARY WARD
Company: NORTH TEXAS MUNICIPAL WATER DIST
Address: 501 E BROWN STREET WYLIE T, WYLIE, TX 75098
Phone: 469-626-4909

TAB 11

ATTACHMENT 2

PROPOSED CHANGES

Proposed Changes

Floyd Branch Regional Wastewater Treatment Plant

No changes are being requested to change the permitted phases or flow limitations. NTMWD requests the removal of the lead and copper effluent limitations and monitoring requirements.

As required by the permit, samples were collected twice per week from the effluent, analyzed for total lead as specified in 30 TAC 319.11-319.12, and the results submitted to TCEQ on the Discharge Monitoring Reports. A review of the 2,645 effluent samples collected from January 2006 – February 2024 that were analyzed for total lead illustrates that NTMWD maintained total lead below the permitted effluent limit of 15 ug/L, with an average of 0.002 ug/L of total lead. During the permit cycle of the current permit, October 2020 – February 2024, the effluent samples averaged 0.04 ug/L of total lead. Effluent samples were collected on June 28, 2022, and included in the permit renewal application submitted on April 6, 2023. Effluent samples collected from June 28, 2022 – February 15, 2024, averaged 0.02 ug/L of total lead. Reviewing the various time frames of effluent lead data and Texas Water Quality Standards indicates that lead effluent limitation or monitoring requirement are not needed in the permit.

NTMWD requests removal of the existing total lead effluent limitation and monitoring requirement in the current permit.

For a discussion of the request for the removal of the copper effluent limitations and monitoring requirements please see Attachment 16.

TAB 12

ATTACHMENT 3

CORE DATA FORM



TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 601365448		RN 102097177

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		1/20/2024				
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership								
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)								
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>								
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>				
NORTH TEXAS MUNICIPAL WATER DISTRICT								
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)			
N/A		N/A		75-6004258	77608933			
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited			
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:				
12. Number of Employees				13. Independently Owned and Operated?				
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following								
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:								
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant								
15. Mailing Address:		NORTH TEXAS MUNICIPAL WATER DISTRICT						
		PO BOX 2408						
City		WYLIE	State	TX	ZIP	75098	ZIP + 4	
16. Country Mailing Information (if outside USA)					17. E-Mail Address (if applicable)			
N/A					JCOVINGTON@NTMWD.COM			
18. Telephone Number			19. Extension or Code			20. Fax Number (if applicable)		

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input checked="" type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
FLOYD BRANCH REGIONAL WASTEWATER TREATMENT PLANT								
23. Street Address of the Regulated Entity: (No PO Boxes)		111 E BUCKINGHAM ROAD						
		City	RICHARDSON	State	TX	ZIP	75081	ZIP + 4
24. County		DALLAS						

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:		N/A							
26. Nearest City					State		Nearest ZIP Code		
RICHARDSON					TX		75081		
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>									
27. Latitude (N) In Decimal:			32.9375			28. Longitude (W) In Decimal:			
Degrees			Minutes		Seconds		Degrees		
32			56		15		96		
							44		
							21		
29. Primary SIC Code (4 digits)			30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)			
4952			N/A			22132			
						N/A			
32. Secondary NAICS Code (5 or 6 digits)									
N/A									
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
DOMESTIC WASTEWATER TREATMENT									
34. Mailing Address:		NORTH TEXAS MUNICIPAL WATER DISTRICT							
		PO BOX 2408							
		City	WYLIE	State	TX	ZIP	75098	ZIP + 4	
35. E-Mail Address:		JCOVINGTON@NTMWD.COM							
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)			
(972) 442-5405						() -			

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input checked="" type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input checked="" type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
	172598		92522	
<input type="checkbox"/> Sludge	<input checked="" type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
	TXR05U129			
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:
	WQ0010257001			

SECTION IV: Preparer Information

40. Name:	JERRY ALLEN			41. Title:	PERMITTING MANAGER
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(469) 626-4634		() -	JALLEN@NTMWD.COM		

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	NORTH TEXAS MUNICIPAL WATER DISTRICT		Job Title:	PERMITTING MANAGER	
Name (In Print):	JERRY ALLEN			Phone:	(469) 626- 4634
Signature:				Date:	4-30-2024

TAB 13

ATTACHMENT 4

PLAIN LANGUAGE SUMMARY



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by [Title 30, Texas Administrative Code \(30 TAC\), Chapter 39, Subchapter H](#). Applicants 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 highlighted areas below to describe your facility and application in plain language. 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 TAC Section 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**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/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 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

North Texas Municipal Water District (CN601365448) operates Floyd Branch Regional Wastewater Treatment Plant (RN102097177), a domestic wastewater treatment plant. The facility is located at 111 East Buckingham Road, in Richardson, Dallas County, Texas 75081. The application is for a major amendment to request the removal of lead and copper effluent limitations and monitoring requirements from the Domestic Wastewater Permit WQ0010257001, which authorizes the treatment of domestic wastewater and discharge of 4,750,000 gallons per day of treated effluent.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (CBOD), Total Suspended Solids (TSS), Ammonia Nitrogen, and *E. coli*. Additional potential pollutants are included in the Domestic Technical Reports 1.0, Section 7 Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application. Domestic wastewater is treated by an advanced secondary plant consisting of a mechanical bar screen, three clarifiers, two trickling filters, a final clarifier, a primary clarifier, two aeration basins

operating in plug flow mode, two secondary clarifiers, two traveling bridge dual media filters, and 3 channels of ultraviolet light disinfection. Sludge from the clarifiers and clarigesters are processed with a sludge holding tank, a magnetite feeder silo, a ballast mix tank, a sheer mill, two magnetic drum separators, post recovery tank, a gravity belt thickener, and a belt filter press. The dewatered sludge is disposed at the NTMWD 121 Regional Disposal Facility.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS /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 es una representación ejecutiva fedérale de la solicitud de permiso.

North Texas Municipal Water District (CN601365448) opera Floyd Branch Regional Wastewater Treatment Plant (RN10207177), una planta de tratamiento de aguas residuales domésticas. La instalación está ubicada en 111 East Buckingham Road, en Richardson, Condado de Dallas, Texas 75081. La solicitud es para una enmienda importante para solicitar la eliminación de las limitaciones y requisitos de monitoreo de efluentes de plomo y cobre del Permiso de Aguas Residuales Domésticas WQ0010257001, que autoriza el tratamiento de aguas residuales domésticas y la descarga de 4,750,000 galones por día de efluentes tratados.

Se espera que las descargas de la instalación contengan Demanda Bioquímica Carbonácea de Oxígeno (CBOD), Sólidos Suspendidos Totales (TSS), Nitrógeno Amoniacal y *E. coli*. Se incluyen contaminantes potenciales adicionales en los Informes Técnicos Nacionales 1.0, Sección 7 Análisis de Contaminantes del Efluente Tratado y la Hoja de Trabajo Doméstico 4.0 en la solicitud de permiso. Aguas residuales domésticas está tratado por una planta secundaria avanzada que consta de una criba de barras mecánica, tres clarigesteres, dos filtros percoladores, un clarificador final, un clarificador primario, dos tanques de aireación que funcionan en modo de flujo pistón, dos clarificadores secundarios, dos filtros de doble medio de puente móvil y 3 canales de desinfección con luz ultravioleta. Los lodos de los clarificadores y clarigesteres se procesan con un tanque de retención de lodos, un silo alimentador de magnetita, un tanque de mezcla de lastre, un molino de corte, dos separadores de tambor magnético, un tanque de recuperación posterior, un espesador de cinta por gravedad y un filtro prensa de cinta. El lodo deshidratado se elimina en la instalación de eliminación regional NTMWD 121.

TAB 14

ATTACHMENT 5

PUBLIC INVOLVEMENT PLAN FORM



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

New Permit or Registration Application

New Activity - modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**If all the above boxes are not checked, a Public Involvement Plan is not necessary.
Stop after Section 2 and submit the form.**

Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Section 3. Application Information

Type of Application (check all that apply):

Air Initial Federal Amendment Standard Permit Title V
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire
 Radioactive Material Licensing Underground Injection Control

Water Quality

Texas Pollutant Discharge Elimination System (TPDES)
Texas Land Application Permit (TLAP)
State Only Concentrated Animal Feeding Operation (CAFO)
Water Treatment Plant Residuals Disposal Permit
Class B Biosolids Land Application Permit
Domestic Septage Land Application Registration

Water Rights New Permit

New Appropriation of Water
New or existing reservoir

Amendment to an Existing Water Right

Add a New Appropriation of Water
Add a New or Existing Reservoir
Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

City

County

Census Tract

- (a) Percent of people over 25 years of age who at least graduated from high school
- (b) Per capita income for population near the specified location
- (c) Percent of minority population and percent of population by race within the specified location
- (d) Percent of Linguistically Isolated Households by language within the specified location
- (e) Languages commonly spoken in area by percentage
- (f) Community and/or Stakeholder Groups
- (g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

Yes No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

Yes No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

Yes No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

Yes No

(e) If a public meeting is held, will a translator be provided if requested?

Yes No

(f) Hard copies of the application will be available at the following (check all that apply):

TCEQ Regional Office

TCEQ Central Office

Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

Yes No

What types of notice will be provided?

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

TAB 15

ATTACHMENT 6

LEASE AGREEMENT

THE STATE OF TEXAS

COUNTIES OF COLLIN, DALLAS, KAUFMAN, AND ROCKWALL:

NORTH TEXAS MUNICIPAL WATER DISTRICT:

CITY OF RICHARDSON-TRINITY EAST FORK
REGIONAL WASTEWATER SYSTEM
CONTRACT

WHEREAS, North Texas Municipal Water District (the "District"), a conservation and reclamation district created under Article 16, Section 59 of the Texas Constitution, pursuant to Vernon's Article 8280-141 (the "District Act"), has been designated by the Texas Water Quality Board to be the regional agency to provide and develop a Regional System for Wastewater Treatment in the general area of the East Fork of the Trinity River lying in Collin, Dallas, Kaufman, and Rockwall Counties; and

WHEREAS, there have been prepared for and filed with the District the following:

Report on a Regional Sewerage Plan for the Upper East Fork Basin, by Shimek, Roming, Jacobs & Finklea, Consulting Engineers, Dallas, Texas; and Lower East Fork Trinity River Basin Regional Sewerage System Study, by Henningson, Durham & Richardson, Inc. of Texas, Consulting Engineers, Dallas, Texas (the "System Engineering Report"); and

Report to North Texas Municipal Water District on Addition of Spring Creek, Rowlett Creek, and Duck Creek Areas of the City of Richardson to the Rowlett Creek Regional System, by Shimek, Roming, Jacobs & Finklea, Consulting Engineers, Dallas, Texas (the "Richardson Engineering Report")

(collectively the "Engineering Reports"); and

WHEREAS, the parties hereto wish to further implement the Engineering Reports and provide for the enlargement, operation and maintenance of a Regional Wastewater System (the "System") for the purpose of providing facilities to adequately receive, transport, treat, and dispose of Wastewater; and

WHEREAS, the parties hereto are entering into this contract in order to control water pollution, and protect, improve, and enhance the water quality of the East Fork of the Trinity River and the water supplies impounded therein; and

WHEREAS, each of the Cities of Mesquite ("Mesquite") in Dallas County, Plano ("Plano") in Collin County, and Richardson ("Richardson") in Dallas and Collin Counties (collectively the "Cities") presently owns, operates, and maintains its respective combined waterworks and sanitary sewer systems; and

WHEREAS, the Cities have deemed it necessary and desirable to contract with the District to achieve efficiencies of cost and operation; and

WHEREAS, the District has been and is willing to accept the responsibility of providing improved waste treatment in the service area to protect water quality and develop reuse potential; and

WHEREAS, Mesquite, Plano, and the District have entered into and executed the Trinity East Fork Regional Wastewater System Contract, dated as of October 1, 1975 (the "Initial Contract"), to which reference is hereby made for all purposes; and

WHEREAS, the Initial Contract provides that Mesquite and Plano are the initial "Member Cities" of the Trinity East Fork Regional Wastewater System of the District, and that an "Additional Member City" may be added upon execution of a contract similar to the Initial Contract, subject to the further terms and conditions of the Initial Contract; and

WHEREAS, Richardson has requested that it become an "Additional Member City", and all conditions prerequisite thereto have been met; and

WHEREAS, Mesquite, Plano, and the District were, and Richardson and the District are, authorized to make and enter into the Initial Contract and this contract under the District Act and the Regional Waste Disposal Act, compiled as Chapter 25, Texas Water Code (the "Code"); and

WHEREAS, the parties hereto recognize these facts:

- (a) That the District will use the payments to be received under the Initial Contract, this contract, and similar contracts for the payment of Operation and Maintenance Expense of the System and for the payment of the principal of, redemption premium, if any, and interest on its Bonds, and to establish and maintain debt service reserves and other funds if and as provided in any Bond Resolution; and that the revenues under such contracts will be pledged to such purposes; and
- (b) That contracts similar to this instrument may be executed between the District and subsequent Additional Member Cities; and
- (c) That District will issue Bonds from time to time in the future to acquire, construct, extent, enlarge, improve, and/or repair the System.

NOW, THEREFORE, the District and Richardson hereby contract and agree as follows:

ARTICLE I

DEFINITIONS

Section 1.01. DEFINITION OF TERMS. In addition to the definitions stated in the preamble hereof, the terms and expressions as hereinafter used in this contract, unless the context clearly shows otherwise, shall have the following meanings:

- (a) "Additional Member City" or "Additional Member Cities" means any city or cities in addition to Mesquite, Plano, and Richardson with which the District makes a contract for receiving, transporting, treating, and/or disposing of Wastewater through the System.
- (b) "Adjusted Annual Payment" means the Annual Payment, as adjusted in accordance with Section 5.03 of this contract during or after each Fiscal Year.
- (c) "Annual Payment" means the amount of money estimated as provided in Section 5.03 of this contract to be paid to District by Member Cities as their proportionate share of the Annual Requirement.
- (d) "Annual Requirement" means the total amount of money required for District to pay all Operation and Maintenance Expense of the System and to pay the principal of, and redemption premium, if any, and interest on its Bonds, and to pay any amounts required to be deposited in any special or reserve funds, including a debt service reserve fund and a repair and replacement fund, as required to be established and/or maintained by the provisions of any Bond Resolution.

- (e) "Bond Resolution" means any resolution of the Board of Directors of the District authorizing the issuance of Bonds and providing for their security and payment, as such resolution(s) may be amended from time to time as therein permitted.
- (f) "Bonds" means any bonds to be issued by the District pursuant to the Initial Contract, this contract, and similar contracts with Additional Member Cities for the acquisition, construction, enlargement, improvement, extension, repair, or replacement of the System or any part thereof, whether in one or several issues, or any bonds issued by the District to refund any or all of same.
- (g) "Contract", or "this contract", means this contract between Richardson and the District.
- (h) "District's System", "Regional System", "Regional Wastewater System", or "System" means all of District's facilities acquired, constructed, used, or operated by the District for receiving, transporting, treating, and disposing of Wastewater of and for Member Cities, pursuant to the Initial Contract, this contract, and all similar contracts with Additional Member Cities (but excluding any facilities acquired or constructed with "Special Facilities Bonds" as hereinafter described, and excluding any facilities required to transport Wastewater to any Point of Entry of the District's System), together with any improvements, enlargements, or additions to said System facilities and any extensions, repairs, or replacements of said System facilities acquired, constructed, used, operated, or otherwise incorporated into or made a part of said System facilities in the future by the District. Said terms shall include only those facilities which are acquired, constructed, used, or operated by the District to provide service to Member Cities pursuant to the Initial Contract, this contract, and all similar contracts with Additional Member Cities, and which, as determined by the District, can economically and efficiently provide service to Member Cities. Said terms do not include any District facilities which provide Wastewater services of any kind to cities, political subdivisions, or persons which are not Member Cities, nor do they in any way include or affect the District's water supply system. Said terms do not include any facilities acquired or constructed by the District with the proceeds from the issuance of "Special Facilities Bonds", which are hereby defined as being revenue obligations of the District which are not secured by or payable from Annual Payments under the Initial Contract, this contract, and similar contracts with Additional Member Cities, but which are payable solely from other sources; but Special Facilities Bonds may be made payable from payments from any person, including any Member City, under a separate contract whereunder the facilities to be acquired or constructed are declared not to be part of the System and are not made payable from the Annual Payments as defined in this contract.

- (i) "Fiscal Year" means the twelve (12) month period beginning each October 1 and ending the following September 30, or such other twelve (12) month period as may be established in the future to constitute District's Fiscal Year.
- (j) "Local Wastewater Facilities" means the waste collection and treatment facilities owned and operated by the Member Cities.
- (k) "Member Cities" means Mesquite, Plano, Richardson, and all Additional Member Cities.
- (l) "Member City" means any of the Member Cities.
- (m) "Operation and Maintenance Expense" means all costs of operation and maintenance of the District's System including, but not limited to, repairs and replacements for which no special fund is created in a Bond Resolution, the cost of utilities, supervision, engineering, accounting, auditing, legal services, insurance premiums, and any other supplies, services, administrative costs, and equipment necessary for proper operation and maintenance of the District's System, payments made for the use or operation of any property, payments of fines, and payments made by District in satisfaction of judgments or other liabilities resulting from claims not covered by District's insurance or not paid by one particular Member City arising in connection with the operation and maintenance of the District's System. Depreciation shall not be considered an item of Operation and Maintenance Expense.
- (n) "Point of Entry" means any point at which Wastewater enters the property on which any Wastewater treatment plant operated by the District is located.
- (o) "Wastewater" means Sewage, Industrial Waste, Municipal Waste, Recreational Waste, and Agricultural Waste, as defined in the Code, together with Properly Shredded Garbage, and such Infiltration Water that may be present.

ARTICLE II

PROVIDING OF FACILITIES BY DISTRICT

Section 2.01. FACILITIES AND INITIAL CONTRACT. In order to provide services for receiving, transporting, treating, and disposing of Wastewater for Member Cities, District will use its best efforts to design, acquire, construct, and complete the System, as generally described in the Engineering Reports with respect to Mesquite, Plano, and Richardson, and operate and maintain the System, and from time to time enlarge, improve, repair, replace, and/or extend the System to provide service

to Mesquite, Plano, Richardson, and to Additional Member Cities. The District shall obtain and hold in its name all required discharge permits from the appropriate Federal and State agencies, and each Member City shall assist District in obtaining same. The District shall provide, manage, operate, and maintain the System in such manner as it determines is necessary for providing adequate, efficient, and economical service to Member Cities, and shall have the right to provide single plants, multiplants, or combine two or more plants, and to use or discontinue the use of any facilities of the System as District deems necessary. Richardson and the District hereby acknowledge the existence and requirements of the Initial Contract and agree that this contract is similar thereto, that they are bound by the Initial Contract, and that Richardson accepts the terms and conditions of the Initial Contract as supplemented by this contract.

ARTICLE III

DISCHARGE OF WASTEWATER AND METERING

Section 3.01. DISCHARGE. In consideration of the payments to be made under the Initial Contract, each of the Cities of Plano, Mesquite, and Allen have the right to discharge all of their Wastewater from their sewer systems into District's System, provided that such Wastewater meets the requirements for quantity and quality as set forth in the Initial Contract. In consideration of the payments to be made under this contract, Richardson shall have the right to discharge all of its Wastewater from the Spring Creek, Rowlett Creek, and Duck Creek drainage areas, within the boundaries of Richardson, as described in the "Richardson Engineering Report" and depicted in "Plat 3" attached thereto; but Richardson shall not have the right to discharge any other Wastewater into the District's System. It is specifically provided, however, that Richardson shall make such discharges only after notice by Richardson that it is ready to discharge, and after notice by the District that it is ready to receive Richardson's discharge pursuant to this contract.

Section 3.02. POINT OF ENTRY. Each Member City may discharge all such Wastewater generated from such city's sewer system into the designated Point or Points of Entry for such Member City, unless such Member City and District mutually agree that like service can be provided elsewhere in the System.

Section 3.03. CONVEYANCE TO POINT OF ENTRY. It shall be the sole responsibility of each Member City to transport its Wastewater to the Point or Points of Entry.

Section 3.04. QUANTITY AT POINT OF ENTRY. (a) The quantity of Wastewater conveyed to the Point or Points of Entry shall be metered and the total annual contributing flow of Wastewater received during any Fiscal Year shall be used to determine each Member City's Annual Payment and the Basic Charge for service as set forth in Article V.

(b) The maximum discharge rate is defined as a rate in million gallons per day (MGD), exceeded for a period of sixty minutes, which, if continued over a period of 24 hours, would be equal to 3.50 times the City's average daily flow during that Fiscal Year.

(c) Any Member City exceeding the maximum discharge rate shall have a surcharge applied to the next Fiscal Year's Annual Payment equal to 1% of the Annual Payment in that Fiscal Year for each 1/10th that the ratio of the maximum discharge to the average daily flow exceeds 3.50.

Section 3.05. LIABILITY FOR DAMAGES AND RESPONSIBILITY FOR TREATMENT AND DISPOSAL OF WASTEWATER. Liability for damages arising from the reception, transportation, delivery, and disposal of all Wastewater discharged shall remain in each Member City to Points of Entry, and upon passing through District's meters installed at Points of Entry liability for such damages shall pass to District. As between the District and each Member City, each party agrees to indemnify and to save

and hold the other party harmless from any and all claims, demands, causes of action, damages, losses, costs, fines, and expenses, including reasonable attorney's fees, which may arise or be asserted by anyone at any time on account of the reception, transportation, delivery, and disposal while Wastewater is in the control of such responsible party, or on account of a prohibitive discharge by a Member City. District has the responsibility as between the parties for the proper reception, transportation, treatment, and disposal of all Wastewater, but not for prohibitive discharges, received by it at Points of Entry.

Section 3.06. METERING. District will furnish, install, operate and maintain at its own expense at each Point of Entry the necessary equipment and devices of standard type for measuring properly all Wastewater to be discharged under the Initial Contract and this contract. Such meters and other equipment shall remain the property of the District. Each Member City shall have access to such metering equipment at all reasonable times for inspection and examination, but the reading, calibration, and adjustment thereof shall be done only by employees or agents of District in the presence of a representative of the Member City if requested by such Member City. All readings of meters will be entered upon proper books of record maintained by the District. Upon written request the Member City may have access to said record books during reasonable business hours.

Not more than three times in each year of operation, District shall calibrate its meters, if requested in writing by a Member City to do so, in the presence of a representative of such Member City, and the parties shall jointly observe any adjustments which are made to the meters in case any adjustment is found to be necessary.

If, for any reason, any meters are out of service or out of repair, or if, upon any test, the percentage of inaccuracy of

any meter is found to be in excess of five (5%) per cent, registration thereof shall be corrected for a period of time extending back to the time when such inaccuracy began, if such time is ascertainable, and if such time is not ascertainable, then for a period extending back one-half (1/2) of the time elapsed since the date of the last calibration, but in no event further back than a period of six (6) months.

Each Member City may, at its option and its own expense, install and operate a check meter to check each meter installed by District, but the measurement for the purpose of this agreement shall be solely by District's meters.

Section 3.07. UNIT OF MEASUREMENT. The unit of measurement for Wastewater delivered hereunder shall be 1,000 gallons, U. S. Standard Liquid Measure.

ARTICLE IV

QUALITY

Section 4.01. GENERAL. Each Member City agrees to limit discharge into District's System to Wastewater that complies with Quality Requirements the District finds it necessary from time to time to establish in order to meet standards imposed by regulatory agencies having appropriate jurisdiction or to protect the Water Quality for water supply purposes. To enable the highest degree of treatment in the most economical manner possible, certain solids of liquids and gases are hereby prohibited from entering District system in excess of standards, and the prohibited discharges will be listed and furnished to all Member Cities, with a minimum of sixty days of notice before any action or approval.

Section 4.02. NORMAL QUALITY. To determine normal quality of Wastewater, District will collect twenty-four (24) hour composite samples of Wastewater at each Point of Entry and cause same to be analyzed in accordance with testing procedures as

set forth in the latest edition of Standard Methods of Examination of Water and Wastewater, published by American Public Health Association, Inc. Composite samples will normally be taken once a month, or at more frequent intervals if necessary to determine Wastewater quality. Such Wastewater shall not exceed the limits of concentration specified for Normal Wastewater as follows:

Normal Wastewater Concentration

BOD	275 mg/l
SS	300 mg/l
pH, not less than	6 nor greater than 9
Hydrogen Sulfide	0.1 mg/l

Should the analysis disclose concentrations higher than those listed, District will at once inform the Member City of such disqualification. With approval of the District, Wastewater with concentrations of BOD and SS greater than normal may be discharged into System with the payment of a surcharge, which shall be in addition to the basic charge as outlined in Article V of this contract, and this surcharge shall be sufficient to cover and pay for the additional cost of treatment.

ARTICLE V

PAYMENTS

Section 5.01. FINANCING. District will issue its Bonds, in amounts and at times as determined by the District, to provide the System.

Section 5.02. ANNUAL REQUIREMENT. It is acknowledged and agreed that payments to be made under the Initial Contract, this contract, and similar contracts with Additional Member Cities will be the only source available to District to provide the Annual Requirement; and that the District has a statutory duty to establish and from time to time to revise the charges for services to be rendered and made available to Member Cities hereunder so that the Annual Requirement shall

at all times be not less than an amount sufficient to pay or provide for the payment of:

- (a) An "Operation and Maintenance Component" equal to the amount paid or payable for all Operation and Maintenance Expense; and
- (b) A "Bond Service Component" equal to:
 - (1) the principal of, redemption premium, if any, and interest on, its Bonds, as such principal, redemption premium, if any, and interest become due, less interest to be paid out of Bond proceeds if permitted by any Bond Resolution; and
 - (2) during each Fiscal Year, the proportionate part of any special or reserve funds required to be established and/or maintained by the provisions of any Bond Resolution; and
 - (3) an amount in addition thereto sufficient to restore any deficiency in any of such funds required to be accumulated and maintained by the provisions of any Bond Resolution; and
 - (4) the charges of paying agents for paying principal of, redemption premium, if any, and interest on, all Bonds.

Section 5.03. PAYMENTS BY CITY. (a) For services to be rendered to each Member City by District under the Initial Contract, this contract, and other similar contracts, each Member City has agreed to pay, at the time and in the manner hereinafter provided, its proportionate share of the Annual Requirement, which shall be determined as hereafter described and shall constitute a Member City's Annual Payment or Adjusted Annual Payment. For the Fiscal Year beginning October 1, 1977, and for each Fiscal Year thereafter, each Member City's proportionate share of the Annual Requirement shall, subject to the subsequent provisions hereof, be a percentage obtained by dividing such Member City's estimated contributing flow to the System by the total estimated contributing flow to the System by all Member Cities during such Fiscal Year. The calculation of each Annual Payment as determined herein, and each Adjusted Annual Payment, shall be determined as provided in this Section. The terms "contributing flow to the System" and

"contributing flow" as used in this contract with respect to any Fiscal Year shall mean (i) the actual metered contributing flow of a Member City or, (ii) as to Richardson and any subsequent Additional Member City, any minimum annual contributing flow for which it has agreed to pay, whichever of the foregoing (i) or (ii) is the greater; provided that the minimum annual contributing flow for which Richardson has agreed to pay shall be calculated as provided in Article IX hereof. Each Member City's Annual Payment shall be calculated by the District by multiplying such Member City's estimated percentage of the estimated total contributing flow times the Annual Requirement. Each Member City's Annual Payment shall be made to District in monthly installments, on or before the twentieth (20th) day of each month, for its required part of the Annual Requirement for each Fiscal Year. Such payments shall be made in accordance with a Schedule of Payments for each Fiscal Year which will be supplied to each Member City. At the close of the 1977 Fiscal Year, and at the close of each Fiscal Year thereafter District shall redetermine each Member City's percentage by dividing each Member City's contributing flow to the System by the total contributing flow of all Member Cities. Each Member City's Adjusted Annual Payment shall be calculated by multiplying each Member City's redetermined percentage times the Annual Requirement. The difference between the Adjusted Annual Payment and the Annual Payment, if any, when determined, shall be applied as a credit or a debit to each Member City's account with District and shall be credited or debited to such Member City's next subsequent monthly payment or payments. It is further specifically agreed, however, that for each Fiscal Year prior to the Fiscal Year commencing October 1, 1981, each Member City shall be obligated to pay, as its additional part of the Annual Requirement, and shall be debited for, any sum by which its actual Direct Cost, as hereinafter defined, for

any Fiscal Year exceeds its Adjusted Annual Payment calculated on the basis of contributing flow as provided above; and each Member City shall be entitled to a credit for any amount in excess of its actual Direct Cost when the District has actually received the aggregate of all of the Annual Requirement from all Member Cities for that Fiscal Year. Each Member City's Adjusted Annual Payment shall be further adjusted by giving any applicable debits and credits on subsequent monthly payments for the next Fiscal Year to reflect such additional adjustments due to Direct Cost. For the Fiscal Year commencing October 1, 1981, and for each Fiscal Year thereafter, the District may continue to fix and collect each Member City's Annual Payment and Adjusted Annual Payment on the basis set forth above, or, at its sole option and within its discretion, may fix and collect each Member City's Annual Payment and Adjusted Annual Payment on the sole basis of contributing flow. In such case each Member City agrees to pay its Annual Payment and Adjusted Annual Payment solely on the basis of contributing flow, without regard to debits or credits for any Direct Cost, except for any Additional City entitled to pay on a Direct Cost basis for a temporary period as hereinafter provided. If the District, at its option as provided above, changes the method of making Annual Payments and Adjusted Annual Payments to a contributing flow basis, such basis shall then become the permanent method, and it shall not thereafter be changed. It is further provided, however that if in any contract with a subsequent Additional Member City the District agrees to provide new or additional facilities to serve such Additional Member City, then such contract may provide that during the temporary period until the end of the Fiscal Year during which such new or additional facilities are placed in operation (but in no event later than the end of the third Fiscal Year following the execution of the contract) such subsequent Additional Member City's Adjusted Annual

Payment shall be further adjusted by credits or debits according to its Direct Cost, in the same manner as if, with respect to such Additional Member City, the District were operating on a Direct Cost basis, even though the District actually has changed to a contributing flow basis for the other Member Cities. As used in this contract the term "Direct Cost" shall mean the following:

- (1) that part of the annual Operation and Maintenance Component of the Annual Requirement which is attributable to any Local Wastewater Facilities of a Member City which are acquired, operated, or used by the District as part of the System, and any new and additional facilities of the System provided and designated by the District to serve such Member City, less any amount thereof attributable to the use of any part of said facilities for the benefit of any other Member City or Cities, and
- (2) that part, if any, of the Bond Service Component of each Annual Requirement which is attributable to any Bonds issued to acquire or improve any existing Local Wastewater Facilities of such Member City or to provide all or any part of any new and additional facilities for the System provided and designated by the District to serve such Member City, and
- (3) a percentage of that part, if any, of the Bond Service Component of each Annual Requirement attributable to any other Bonds issued to provide any other facilities for the System equal to the percentage of actual use by such Member City of any such facilities during that Fiscal Year.

(b) Monthly payments by Member Cities, as set forth in each Schedule of Payments, shall be in the following amounts:

- (i) the amount necessary to provide the Bond Service Component of the Annual Requirement so as to enable the District to make all payments with respect to the Bonds when due; and
- (ii) such amounts as will cause the District to have on hand, on or before the twentieth (20th) day of each month, an amount not less than 1/6th of the then current Annual Budget required for Operation and Maintenance Expenses.

It is specifically covenanted and agreed that each Member City shall pay its Annual Payment and Adjusted Annual Payment

calculated as provided in this Section, and that the Annual Payment shall be its appropriate percentage based on contributing flow or Direct Cost, whichever is the greater; provided that such Member City is entitled to receive if and when available any credit provided for herein during any Fiscal Year when the provisions hereof relating to Direct Cost are applicable and in effect. If a Member City fails to pay its monthly charge on or before the twentieth (20th) day of any month, it shall incur and pay a penalty of ten percent of the amount due together with any legal or other costs incurred by the District in collecting the amount due. District is authorized to discontinue service to any Member City which fails to make any monthly payment, and which, after written notice, does not make such payment.

(c) If, during any Fiscal Year, District begins providing services to an Additional Member City or Cities, each Member City's Annual Payment for such Fiscal Year shall be determined consistent with the provisions of this Contract.

(d) Each Member City's Annual Payment also shall be adjusted and redetermined for the balance of any applicable Fiscal Year, consistent with the provisions of this Contract, and initially based on estimated contributing flow, at any time during any Fiscal Year if:

- (i) Additions, enlargements, repairs, extensions, or improvements to the System are placed in service by District which require an increase and redetermination of the Annual Requirement;
- (ii) Unusual or extraordinary expenditures for operation and maintenance of the System are required which are not provided for in the Annual Budget or in a Bond Resolution; or
- (iii) A Member City's contributing flow to the System, after the beginning of the Fiscal Year, is estimated to be substantially different from that on which Annual Payments are based as determined by District, to the extent that such difference in flow will substantially affect such Member City's Budget, and consequently such Member City's Annual Payment to District; or

- (iv) The District issues additional Bonds, the payments in connection with which require an increase and redetermination of the Annual Requirement.
- (v) It appears to the District that for any other reason it will not receive the full amount of the Annual Requirement unless such adjustment and redetermination are made.
- (e) The District shall give all Member Cities at least 21 days written notice prior to consideration by the Board of Directors of the District of making any Adjusted Annual Payment for any Member City during any Fiscal Year.
- (f) The Annual Payment set forth in this section shall be considered the Basic Charge for service hereunder, and each Member City shall pay a surcharge for excess BOD and/or SS as provided in Section 4.04, and for excessive discharge in the manner set forth in Section 3.05(c).
- (g) The Operation and Maintenance Component of the Annual Requirement allocable to such Member City shall be determined finally by the contributing flow and/or the Direct Cost of each Member City, as provided above. However, notwithstanding any other provisions of this contract to the contrary, the Bond Service Component of the Annual Requirement shall be allocated to each Member City, including each Additional Member City, and shall be computed and paid during each Fiscal Year as part of its Annual Payment and Adjusted Annual Payment, either (1) on the basis of the amount of such Member City's contributing flow into the System or (2) its Direct Cost during any such Fiscal Year when the provisions of this contract relating to Direct Cost are applicable and in effect, or (3) on the basis of the amount of such Member City's contributing flow into the System during the Fiscal Year in which such Member City's contributing flow into the System was the greatest, or (4) as to Richardson and any subsequent Additional Member City, on the basis of the amount of any minimum flows for which it has agreed to pay in this contract or any contract similar to this

contract, whichever of the foregoing amounts (1), (2), (3), or (4) is the greatest; provided that each Member City is entitled to receive, if and when available, any credit provided for herein during any Fiscal Year when the provisions of this contract relating to Direct Cost are applicable and in effect. It is the intention hereof that the Bond Service Component allocable to each Member City and to be paid by each Member City shall be computed for each Fiscal Year in such manner that no reduction will be allowed to a Member City because the amount of its actual contributing flow to the System is reduced below a previous high, or because the amount of its actual contributing flow is less than the amount of any minimum flow for which it has agreed to pay, subject to the foregoing provisions relating to Direct Cost.

(h) The facilities and services of the System to be provided to Richardson pursuant to this contract are and will be essential and necessary to the operation of Richardson's combined waterworks and sanitary sewer system, and all payments to be made hereunder by Richardson will constitute reasonable and necessary "operating expenses" of Richardson's combined waterworks and sanitary sewer system, within the meaning of Vernon's Article 1113, and the provisions of all ordinances authorizing the issuance of all waterworks and sanitary sewer system revenue bond issues of Richardson, with the effect that Richardson's obligation to make payments from its waterworks and sanitary sewer system revenues under this contract shall have priority over its obligations to make payments of the principal of and interest on any and all of its waterworks and sanitary sewer system revenue bonds. Richardson agrees to fix and collect such rates and charges for waterworks and sanitary sewer system services to be supplied by its waterworks and sanitary sewer system as will make possible the prompt payment of all expenses of operating and maintaining its entire waterworks and sanitary sewer system, including all payments,

obligations, and indemnities contracted hereunder, and the prompt payment of the principal of and interest on its bonds payable from the net revenues of its waterworks and sanitary sewer system. The District shall never have the right to demand payment of the amounts due hereunder from funds raised or to be raised from taxation by Richardson. Richardson's payments hereunder shall be made pursuant to the authority granted by Section 25.030 of the Texas Water Code and the District Act, as well as Vernon's Article 1113. Recognizing the fact that Richardson urgently requires the facilities and services covered by this contract, and that such facilities and services are necessary for actual use and for stand-by purposes; and further recognizing that the District will use the payments received from Richardson hereunder to pay, secure, and finance the issuance of its Bonds, it is hereby agreed that Richardson shall be obligated unconditionally, and without offset or counterclaim, to make the payments designated as the "Bond Service Component" of the Annual Requirement, in the manner provided in this Contract, regardless of whether or not the District actually provides such facilities and services, or whether or not Richardson actually receives or uses such facilities and services, and regardless of the validity or performance of the other parts of this contract, and such "Bond Service Component" shall in all events be applied and used for providing debt service and other requirements of the Bonds, and the holders of the Bonds shall be entitled to rely on the foregoing agreement and representation, regardless of any other agreement between the District and Richardson. Richardson further agrees that it shall be obligated to make the payments designated as the "Operation and Maintenance Component" of the Annual Requirement as described in Section 5.02 of this Contract, so long as the District is willing and able to provide the facilities and services contemplated hereunder to Richardson.

(i) On or before August 1 of each year District will furnish each Member City with a tentative budget and an estimated schedule of monthly payments to be made by such Member City for the ensuing Fiscal Year. On July 1 of each year, the District shall be in a position to furnish any Member City an estimate of the City's annual requirement. On or before October 1 of each year, District shall furnish such Member City with a finalized schedule of the monthly payments to be made by such Member City to the District for the ensuing Fiscal Year. Each Member City agrees that it will make such payments to the District on or before the twentieth (20th) day of each month of such Fiscal Year. If any Member City shall dispute the Annual Budget, and proceed as provided in Article VII, such Member City nevertheless promptly shall make the payment or payments determined by District, and if it is subsequently determined by agreement that such disputed payments made by such Member City should have been less, District shall promptly revise, reallocate, and readjust the charges among all Member Cities then being served by District in such manner that such Member City will recover its overpayment. In the event any Member City is assessed a surcharge for excess BOD and/or SS, District will bill such Member City for such surcharge on or before the tenth (10th) day of the month following the determination of the surcharge and such Member City shall pay such surcharge on or before the twentieth (20th) day of the month of receipt of any such bill. Any such surcharge collected by District shall be applied by District against the total cost of Operation and Maintenance Expense of the System.

(j) If any Member City's Annual Payment is redetermined as is herein provided, District will promptly furnish such Member City with an updated schedule of monthly payments reflecting such redetermination.

(k) All interest income earned by the investment of any Funds created pursuant to any Bond Resolution shall be credited towards the payment of the Bond Service Component and taken into account in determining the Annual Requirement; except that as to any Acquisition or Construction Fund created from any Bond proceeds all interest income earned by the investment thereof may, at the option of the District, be credited to such Acquisition or Construction Fund and used for the System purposes for which the Bonds are issued, or be credited towards the payment of the Bond Service Component.

Section 5.04. USE OF OTHER REVENUES OF SYSTEM. (a) If the District receives any net income from the sale of treated Wastewater from the System prior to its discharge into a public stream of the State of Texas, the District will apply and credit said net income towards payments of Operation and Maintenance Expenses.

(b) Notwithstanding any other provisions of this contract, the District may provide any excess available capacity or service of the System to any person, as defined by the Texas Water Code, provided that such service does not interfere with or impair the rights of any Member City under this contract, and any such service shall in all events be subordinate and subject to such rights; and provided further that the District must charge for such service in amounts at least sufficient to pay all Operation and Maintenance Expense attributable thereto plus an amount which will produce an estimated reasonable allocation as determined by the District, plus an additional amount of not less than 20% of the foregoing to cover prior incurred costs, to be credited to the Bond Service Component of the Annual Requirement. The District is not authorized to issue Bonds, as defined in this contract, to provide the services of the System to any persons other than Member Cities.

ARTICLE VI

GENERAL PROVISIONS

Section 6.01. FORCE MAJEURE. In case by reason of "Force Majeure" the District or any Member City shall be rendered unable wholly or in part to carry out its obligations under this agreement, then if such party shall give notice and full particulars of such "Force Majeure" in writing to the other parties within a reasonable time after occurrence of the event or cause relied on, the obligation of the party giving such notice, so far as it is affected by such Force Majeure (with the exception of the obligation of each Member City to make the payments required in Section 5.03 of this contract, which in all events shall be made as provided therein) shall be suspended during the continuance of the inability then claimed, but for no longer periods, and any such party shall endeavor to remove or overcome such inability with all reasonable dispatch. The term "Force Majeure" as employed herein, shall mean acts of God, strikes, lockouts, or other industrial disturbances, acts of public enemy, orders of any kind of the Government of the United States or the State of Texas or any civil or military authority, insurrections, riots, epidemics, landslides, lightning, earthquakes, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, breakage or accidents to machinery, pipe lines or canals, partial or entire failure of water supply, and inability on the part of a Member City to provide water necessary for operation of its water and Local Wastewater Facilities hereunder, or of District to receive Wastewater on account of any other causes not reasonably within the control of the party claiming such inability. It is understood and agreed that the settlement of strikes and lockouts shall be entirely within the discretion of the party having the difficulty, and that the above requirement that any Force Majeure shall be remedied with all

reasonable dispatch shall not require the settlement of strikes and lockouts by acceding to the demands of the opposing party or parties when such settlement is unfavorable to it in the judgment of the party having the difficulty.

Section 6.02. INSURANCE. District will carry insurance for such purposes and in such amounts as are determined by the District to be necessary or advisable.

Section 6.03. REGULATORY BODIES. This contract shall be subject to all valid rules, regulations and laws applicable hereto passed or promulgated by the United States of America, the State of Texas, or any authorized representative or agency of any of them.

Section 6.04. EFFLUENT REUSE: (a) District will make the effluent discharged from its Wastewater treatment plants available for any lawful and beneficial reuse purpose, and a charge shall be made to the customer receiving such effluent sufficient to cover any additional cost involved in providing the service, plus a reasonable portion of the cost of treating the Wastewater which produced such effluent; provided that such portion of the cost allocable to treatment shall not be required to exceed an amount which would, in the judgment of the District, render the use of such effluent by a customer economically infeasible.

(b) Notwithstanding the provisions of subsection 6.04(a), each Member City shall have the first right to use all effluent produced from its Wastewater for reuse solely for its own municipal purposes (i.e. golf course irrigation, recreation, etc.), without any charge except for any additional costs to the District necessary to provide the effluent for such municipal use; provided that no Member City shall sell such effluent or make it available to any other customer, and subject to the aforesaid first right of each Member City, the District shall have the

right to use all such effluent for District purposes without any charge except for additional costs necessary to provide the effluent for District purposes. As to Plano, however, it is understood and agreed that the reuse of its effluent to fulfill its obligations under its present contracts with the Plano Municipal Golf Course and the Los Rios Country Club (for the primary term and any optional extensions of the contract with Plano Municipal Golf Course and for the primary term of the contract with Los Rios Country Club) shall constitute a reuse for its own municipal purposes, and the foregoing restrictions with respect to selling and making available effluent shall not apply to such present contracts during the terms thereof as aforesaid.

Section 6.05. ANNUAL AUDIT OF SYSTEM. The District shall, at the close of each Fiscal Year, cause an Annual Audit of the System to be prepared.

Section 6.06. PUBLICATIONS, REFERENCE WORKS, GOVERNMENTAL REGULATIONS. In each instance herein where reference is made to a publication, reference work or Federal or State regulation, it is the intention of the parties that at any given time the then current edition of any such publication or reference work or Federal or State regulation shall apply. If a publication or reference work is discontinued or ceases to be the generally accepted work in its field or if conditions change or new methods or processes are implemented by the District, new standards shall be adopted which are in compliance with State and Federal laws and any valid rules and regulations issued pursuant thereto.

Section 6.07. OPERATION OF THE SYSTEM. District covenants that it will operate and maintain the System in accordance with accepted good business and engineering practices.

ARTICLE VII

DISTRICT ANNUAL BUDGET

Section 7.01. FILING WITH CITY. (a) Not less than sixty

(60) days before the commencement of Fiscal Year 1977 and not less than sixty (60) days before the commencement of each Fiscal Year thereafter while the Initial Contract and this contract are in effect, District shall cause its tentative budget for operation and maintenance of the System for the ensuing Fiscal Year to be prepared and a copy thereof filed with each Member City. If no protest or request for a hearing on such tentative budget is presented to District within thirty (30) days after such filing of the tentative budget by one or more Member Cities, the tentative budget for the System, when adopted by District's Board of Directors, shall be considered for all purposes as the "Annual Budget" for the ensuing Fiscal Year. But if a protest or request for a hearing is duly filed, it shall be the duty of the District to fix the date and time for a hearing on the tentative budget. The Board of Directors of the District shall consider the testimony and showings made in such hearing. The Board of Directors of the District may adopt the budget or make such amendments thereof as to it may seem proper. The budget thus approved by the Board of Directors of the District shall be the Annual Budget for the next ensuing Fiscal Year.

(b) The Annual Budget may be amended to provide for transfers of budgeted funds between expenditure accounts, provided however that said transfers do not result in an overall increase in budgeted funds as provided in the Annual Budget. The Annual Budget may be amended and increased through formal action by the Board of Directors of District, if required. Certified copies of any amended Annual Budget and the resolution authorizing same shall be filed immediately by the District with each Member City.

ARTICLE VIII

THE SYSTEM

Section 8.01. INITIAL FACILITIES OF THE SYSTEM. (a) Immediately after execution of the Initial Contract District

established the System initially to consist of facilities at Mesquite and Plano.

(b) As permitted and authorized by Section 25.04, Texas Water Code, and other provisions of law, the District and Mesquite agreed under the Initial Contract that the Initial Contract shall constitute an operating agreement with respect to the following described treatment and disposal facilities which existed on the date of the Initial Contract (the "Mesquite Facilities") and which on the date of the Initial Contract constituted a part of the Local Wastewater Facilities of Mesquite:

All wastewater treatment facilities, structures, apparatus, equipment, and devices located on the following described property as of the date of the Initial Contract:

TRACT I

BEING a tract of land situated in the County of Dallas, Texas, City of Mesquite and out of the John Harding survey Abstract 569, M. L. Swing Survey Abstract 1398 and the C. Taylor survey Abstract 1482, and described as follows:

BEGINNING at a point 1227.00 feet North 45° West of the most Southerly corner of a tract of land deeded to the City of Mesquite by J. C. Lathem and wife by deed dated May 12, 1958 and recorded May 21, 1958 in volume 4896, Page 83 in the deed records of Dallas County, Texas

THENCE North 45°00'00" West with the Southwest line of said Lathem tract 879.47 feet to a point for corner; said point being in the centerline of South Mesquite Creek;

THENCE in a Northwesterly direction with the meanders of the centerline of South Mesquite Creek as follows:

THENCE North 58°16'35" West a distance of 122.53 feet;
THENCE North 14°25'35" East a distance of 104.10 feet;
THENCE North 34°54'45" West a distance of 174.80 feet;
THENCE North 13°34'00" West a distance of 225.95 feet;
THENCE North 53°36'10" West a distance of 82.90 feet;
THENCE North 66°28'55" West a distance of 99.80 feet;
THENCE South 72°44'15" West a distance of 99.80 feet;
THENCE North 63°00'30" West a distance of 104.80 feet;
THENCE North 3°57'00" East a distance of 82.00 feet;

THENCE North 45°00'00" East leaving South Mesquite Creek a distance of 2108.90 feet to a point for corner;

THENCE South 41°31'00" East a distance of 1298.13 feet to a point for corner;

THENCE South 23°29'00" West a distance of 616.00 feet to a point for corner;

THENCE South 47°30'40" East a distance of 303.84 feet to a point for corner;

THENCE South 46°14'00" West a distance of 1572.73 feet to the PLACE OF BEGINNING and containing 82.4066 acres of land.

TRACT II

BEING a tract of land situated in the County of Dallas, City of Mesquite and out of the M. L. Swing Survey Abstract 1398 and described as follows:

BEGINNING at a point 447.16 feet South 45°00'00" West from the North corner of Tract I as described above;

THENCE South 45°00'00" West a distance of 50 feet to a point for corner;

THENCE North 45°00'00" West a distance of 1353.00 feet to the beginning of a curve to the left;

THENCE Around a curve to the left having a radius of 90 feet, and a central angle of 90 degrees, a distance of 62.83 feet to a point for corner; said point being in the Southeast line of Lawson Road;

THENCE North 45°00'00" East with the Southeast line of Lawson Road a distance of 130.00 feet to a point for corner;

THENCE Around a curve to the left having a tangent bearing of South 45° 00'00" West, a tangent length of 40 feet, a radius of 40 feet, a central angle of 90 Degrees; a distance of 62.83 feet to a point;

THENCE South 45°00'00" East a distance of 1353.00 feet to the PLACE OF BEGINNING and containing 1.614 acres.

TRACT III

BEING a tract of land situated in the County of Dallas, Texas, City of Mesquite and out of the John Harding Survey Abstract 569 and described as follows:

BEGINNING at a point North 46°14'00" East 1472.73 feet from the South corner of Tract I as described above.

THENCE North 46°14'00" East along the most Southerly line of mentioned Tract I a distance of 30 feet a point for corner;

THENCE South 43°48'00" East a distance of 400 feet to a point corner in the centerline of South Mesquite Creek;

THENCE South 46°14'00" West a distance of 30 feet to a point for corner;

THENCE North 43°46'00" West a distance of 400 feet to the PLACE OF BEGINNING and containing 0.275 acres.

Total Acreage Tracts I, II, III 84.296.

The District under the Initial Contract and this agreement has agreed to manage, administer, operate, maintain, and use the Mesquite Facilities as part of the System, subject to the provisions and during the term of the Initial Agreement and this contract, and in consideration thereof, the District has agreed to pay to Mesquite, in each of the Fiscal Years, respectively, the annual amounts, respectively, as set forth in the following schedule:

<u>EACH FISCAL YEAR</u> <u>ENDING SEPTEMBER 30:</u>	<u>ANNUAL</u> <u>AMOUNT:</u>
1976 through 1979	\$41,106
1980 through 1983	\$40,576
1984 through 1987	\$40,325
1988 through 1991	\$61,769
1992 through 1995	\$94,908
1996 and each year thereafter	\$ 0.00

Such payments shall constitute a part of the fixed Operation and Maintenance Expenses of the System, and the District shall include such amount in each Annual Budget, to be paid, along with all other items of Operation and Maintenance Expense, according to the formulae and methods provided in the Initial Contract and this contract for the payment of the Annual Requirement.

(c) As permitted and authorized by Section 25.04, Texas Water Code, and other provisions of law, the District and Plano agreed under the Initial Contract that the Initial Contract shall constitute an operating agreement with respect to the following described treatment and disposal facilities which existed on the date of the Initial Contract (the "Plano Facilities") and which on the date of the Initial Contract constituted a part of the Local Wastewater Facilities of Plano:

All wastewater treatment and disposal facilities, structures, apparatus, equipment, and devices located on the following described property as of the date of the Initial Contract:

TRACT I

BEING a tract of land situated in the James Ledbetter Survey, Abstract No. 545, Collin County, Texas, being a part of that certain 10.75 acre tract of land out of Tract No. 3 of the Paul Wyche property in said Survey which was conveyed by Paul Wyche to W. H. Hunt by Warranty Deed dated April 23, 1959, and being more particularly described as follows:

BEGINNING at a point on the north line of said Tract No. 3, a distance of 300 feet S 87° 45' E of the northwest corner of said Tract No. 3;

THENCE South 87° 45' E. along the north line of said Tract No. 3 a distance of 550 feet to a corner, said corner also being the northeast corner of the land conveyed by Paul Wyche to W. H. Hunt;

THENCE South 2° 15' West a distance of 550 feet to a corner, said corner also being the southeast corner of the land conveyed by Paul Wyche to W. H. Hunt;

THENCE North 87° 45' West a distance of 550 feet to a corner;

THENCE North 2° 15' East a distance of 550 feet to the place of beginning, and containing 6.9 acres of land more or less.

TRACT II

BEING a tract of land situated in the James Ledbetter Survey, Abstract No. 545, Collin County, Texas, being a part of that

certain 10.75 acre tract of land out of Tract No. 3 of the Paul Wyche property in said Survey which was conveyed by Paul Wyche to W. H. Hunt by Warranty Deed dated April 23, 1959 and being more particularly described as follows:

BEGINNING at a point on the north line of Tract No. 3;

THENCE South $87^{\circ} 47'$ East along the north line of said Tract No. 3 a distance of 300 feet to a point for corner, said corner also being the Northwest corner of Tract I;

THENCE along the West line of Tract I South $2^{\circ} 15''$ West 550 feet to a point for corner, said corner also being the Southwest corner of Tract I;

THENCE North $87^{\circ} 45'$ West 300 feet to a point for corner;

THENCE North $2^{\circ} 35' 30''$ East 550.01 feet to the place of beginning and containing 3.85 acres, more or less.

TRACT III

BEING a tract of land located in the James Ledbetter Survey, Abstract No. 545, City of Plano, Collin County, Texas, and being more particularly described as follows:

BEGINNING at a point in the northwest property corner of the W. H. Hunt 3.85 acre tract as recorded in Volume 551, Page 284, of the Deed Records of Collin County, Texas, and also being an interior southeast corner of the General Portland Land Development Company tract conveyed in August, 1972, said tract being the same as previously called Tract II;

THENCE South $00^{\circ} 25' 10''$ West, 1478.17 feet along the west line of the Hunt tract and the M. L. Godwin tract to a southeast corner of the General Portland Land Development Company tract;

THENCE North $88^{\circ} 45' 14''$ West, 274.42 feet;

THENCE North $84^{\circ} 55' 31''$ West, 226.35 feet to the east right-of-way line of Los Rios Boulevard (a 100 foot right-of-way);

THENCE North $00^{\circ} 25' 10''$ E., 565.24 feet along the east right-of-way line of Los Rios Boulevard to the beginning of a curve to right having a central angle of $25^{\circ} 42' 21''$, a radius of 2051.95 feet and a tangent length of 468.18 feet;

THENCE in a northeasterly direction along said curve 920.61 feet to the end of curve and a point for corner;

THENCE South $89^{\circ} 41' 22''$ E., 296.92 feet to the Point of Beginning and containing 15.527 acres of land, more or less.

Total Acreage Tracts I, II, III - 26.27 Ac.

The District under the Initial Contract and this contract has agreed to manage, administer, operate, maintain, and use the Plano Facilities as part of the System, subject to the provisions and during the term of the Initial Agreement and this contract, and in consideration thereof, the District has agreed to pay to Plano, in each of the Fiscal Years, respectively, the

annual amounts, respectively, as set forth in the following schedule:

<u>EACH FISCAL YEAR</u> <u>ENDING SEPTEMBER 30:</u>	<u>ANNUAL</u> <u>AMOUNT:</u>
1976 through 1979	\$113,274
1980 through 1983	\$104,074
1984 through 1987	\$ 94,792
1988 through 1991	\$ 83,661
1992 through 1995	\$ 65,617
1996 through 1998	\$ 41,041
1999 and each year thereafter	\$ 0.00

Such payments shall constitute a part of the fixed Operation and Maintenance Expenses of the System, and the District shall include such amount in each Annual Budget, to be paid, along with all other items of Operation and Maintenance Expense, according to the formulae and methods provided in the Initial Contract and this contract for the payment of the Annual Requirement.

(d) It is recognized that subsequent to the execution of the Initial Agreement the District issued its "Regional Wastewater System Revenue Bonds, Series 1976, in the principal amount of \$2,750,000 (the "Series 1976 Bonds"), and that 65.47% thereof has been or is to be expended with respect to the Mesquite Facilities, which, as improved and enlarged, are known as the South Mesquite Regional Wastewater Treatment Plant, and that 34.53% thereof has been or is to be expended with respect to the Plano Facilities, which, as improved and enlarged, are known as the Rowlett Creek Regional Wastewater Treatment Plant (the "Rowlett Creek Plant").

(e) Upon the execution of this contract, all other agreements, contracts, and other arrangements with respect to Wastewater or any other sewage facilities or services, including any Local Wastewater Facilities, between the District and Richardson shall be void and of no further force or effect, and this contract shall supersede the same and become the sole and entire present agreement between the parties with respect thereto.

Section 8.02. DISTRICT CONTRACTS WITH ADDITIONAL MEMBER CITIES. (a) The District reserves the right to contract with subsequent Additional Member Cities to provide the services of the System to such Additional Member Cities; provided that the terms and provisions of such contracts with Additional Member Cities shall be, to the extent practicable and applicable, the same as the terms and provisions of the Initial Contract and this contract, except that with respect to any Local Wastewater Facilities of such Additional Member City which are to be acquired, operated, or used by the District as a part of the System as a result of such contract, the District and the Additional Member City may agree in such contract for mutually acceptable payments in connection therewith from Bond proceeds or as an Operation and Maintenance Expense of the System (provided that in any formula used for determining such payments, the value attributed to such Local Wastewater Facilities shall not exceed a sum equal to the principal amount of all then outstanding bonds or other obligations issued by the Additional Member City to acquire and construct such Local Wastewater Facilities), and except that such contract shall provide for payments calculated on the basis of adequate minimum flows as hereinafter provided. All Member Cities shall be bound by the Initial Contract, this contract, and the similar contracts with Additional Member Cities. The District shall not enter into contracts for any services by the System except with cities which become Member Cities, or as otherwise provided in this contract.

(b) A city may become an Additional Member City in the following manner and under the following conditions:

(i) A formal request must be submitted to the District furnishing information on the area to be served, a description of existing facilities, and the latest annual audit of such proposed Additional Member City's waterworks and/or sewer systems, if any.

(ii) Such proposed Additional Member City must provide funds for any necessary engineering studies if funds are not available from the appropriate Federal or State agencies. The preliminary studies must determine or estimate, for the ensuing five year period, the size and type of any proposed facilities, their estimated cost, and estimated flows of Wastewater, so as to enable the District to ascertain or estimate the requirements of the proposed Additional Member City for the ensuing five year period.

(iii) After all preliminary data is developed, the Board of Directors of the District shall call a hearing and notify all Member Cities to review the request of the proposed Additional Member City. The Board of Directors of the District then shall determine if the proposed Additional Member City shall become a Member City.

(c) Each Additional Member City must agree to make minimum payments under its contract, on the basis of estimated annual minimum flows, that would provide amounts annually at least sufficient, as determined by the District, to pay:

(i) all of the annual Operation and Maintenance Component of the Annual Requirement which is attributable to any Local Wastewater Facilities of such Additional Member City which are to be acquired, operated, used, or improved by the District as part of the System and any other new and additional facilities of the System provided and designated by the District to serve such Member City, less any amount thereof attributable to the use of any part of said facilities for the benefit of any other Member City or Cities, and

(ii) an amount (to be credited and applied to the Bond Service Component of each Annual Requirement), at least equal to:

(a) all of that part of the Bond Service Component of each future Annual Requirement attributable to Bonds issued to acquire or improve any existing Local Wastewater Facilities of such Additional Member City to be a part of the System, and all Bonds issued within five years from the date of such contract to provide any other new and additional facilities for the System to serve such Additional Member City, plus

(b) a percentage of the Bond Service Component of each future Annual Requirement for all then outstanding Bonds equal to the then estimated percentage of use by such proposed Additional Member City of any portion of then then existing System, plus

(iii) an annual amount (to be credited to the Bond Service Component of the Annual Requirement and/or to the Operation and Maintenance Component of the Annual Requirement, at the option of the District) as estimated and determined by the District to equalize the previous capital cost (including the cost of previously constructed excess capacity) of facilities to be used to provide service to the Additional Member City.

(d) The provisions of this Section and the payments to be made under an Additional Member City's contract are further subject to the provisions of Section 5.03 of the Initial Contract and this Contract.

Section 8.03. ADDITIONAL CAPACITY AND FACILITIES. As the responsible agency for the establishment, administration, management, operation, and maintenance of the System, the District will, from time to time, determine when and to what extent it is necessary to provide additions, enlargements, improvements, repairs, and extensions to the System to receive,

transport, treat, and dispose of Wastewater of any Member Cities, including all Additional Member Cities, and to issue its Bonds to accomplish such purposes, and all Member Cities, including Additional Member Cities, shall be obligated to pay both the Operation and Maintenance Component and the Bond Service Component included in the Annual Requirement with respect to the entire System, as expanded, as provided in Section 5.03; provided that this Section shall not be construed so as to reduce or alter the requirements of Section 8.02 with respect to minimum payments.

ARTICLE IX

EXPANSION OF ROWLETT CREEK PLANT AND RICHARDSON'S PAYMENTS

Section 9.01. It is understood and agreed that initially Richardson's Wastewater from the Spring Creek, Rowlett Creek, and Duck Creek drainage areas will be discharged into the Rowlett Creek Plant (which now has a design capacity for treating six million gallons of sewage flow per day); and that initially such plant has the capacity to treat part of such Wastewater in addition to the Wastewater from Plano (which includes the Wastewater from the City of Allen). It is further understood and agreed that the District will use its best efforts to issue its Bonds and expand the Rowlett Creek Plant so that its design capacity for treating sewage flow will be increased from six to approximately eighteen million gallons per day, which expansion is necessary in order to serve the currently projected needs of Plano, Allen, and Richardson for a reasonable period in the future. However, until the Rowlett Creek Plant is so expanded, the District is obligated to accept Richardson's Wastewater only to the extent that the Rowlett Creek Plant is capable of treating any Wastewater discharged by Richardson.

Section 9.02. Pursuant to Section 8.02 of the Initial Contract, it is required that Richardson, as an Additional Member City, must agree to pay its share of the estimated Annual Requirement and the actual Annual Requirement as required by Article V of the Initial Contract and this Contract, and in particular Section 5.03, subject to the provisions of Section 8.02 of the Initial Contract and this Contract with respect to agreed minimum payments on the basis of annual minimum contributing flows. There are no Local Wastewater Facilities of Richardson involved in this contract, and no payments shall be made based thereon or with respect thereto.

Section 9.03. Richardson shall pay its part of the annual Operation and Maintenance Component of the Annual Requirement, commencing with its initial discharge into the System, calculated on the basis of (1) an agreed minimum contributing flow of two million gallons of sewage per day, or (2) Richardson's actual contributing flow, or (3) Richardson's Direct Cost, whichever of (1), (2), or (3) is the greatest (subject to any credits due to Direct Cost).

Section 9.04. Richardson shall pay its part of the annual Bond Service Component of the Annual Requirement, commencing with its initial discharge into the System, and its part of the annual Bond Service Component shall be either:

- (1) an amount calculated on the basis of (a) an agreed minimum contributing flow of two million gallons of sewage per day, or (b) Richardson's actual contributing flow, or (c) Richardson's Direct Cost, or (d) Richardson's maximum contributing flow, whichever of (a), (b), (c), or (d) is the greatest (subject to any credits due to Direct Cost), or
- (2) 17.26% of that part of each annual Bond Service Component attributable to the Series 1976 Bonds, plus

50% of that part of each annual Bond Service Component attributable to all Bonds issued and delivered for the purpose of expanding the Rowlett Creek Plant as described in Section 9.01 (the "Expansion Bonds"), plus all of each annual Bond Service Component attributable to any other Bonds issued and delivered within five years from the date of this contract to provide any other new and additional facilities for the System to serve Richardson, whichever of (1) or (2) is the greater; provided, however, that if any Expansion Bonds are issued and delivered prior to Richardson's initial discharge into the System, Richardson shall, commencing with the delivery of any Expansion Bonds and continuing until its initial discharge into the System, pay 50% of the Bond Service Component attributable to the Expansion Bonds during such period.

ARTICLE X:

REMEDIES

Section 10.01. Any party to this Contract, and any holder of the District's Bonds, may require any party hereto, and its officials and employees, to carry out, respect, and enforce the covenants and obligations of this Contract, by all legal and equitable means, including specifically, but without limitation, the use and filing of mandamus proceedings, in any court of competent jurisdiction, against such party, and its officials and employees.

ARTICLE XI

EFFECTIVE DATE AND TERM

Section 11.01. EFFECTIVE DATE. This contract shall become effective as of the date of execution hereof.

Section 11.02. TERM OF CONTRACT. This contract shall continue in force from the effective date hereof at least until all Bonds, including any Bonds issued to refund same, shall

have been paid in full; and shall also remain in force thereafter throughout the useful life of the System.

IN WITNESS WHEREOF, the parties hereto acting under authority of their respective governing bodies have caused this contract to be duly executed in several counterparts, each of which shall constitute an original, all as of the 9 day of Jan., 1978, which is the date of this contract.

NORTH TEXAS MUNICIPAL WATER DISTRICT

BY E. L. Kohn
President, Board of Directors

ATTEST:

[Signature]
Secretary, Board of Directors

APPROVED:

[Signature]
General Counsel for North Texas
Municipal Water District

(SEAL)

CITY OF RICHARDSON, TEXAS

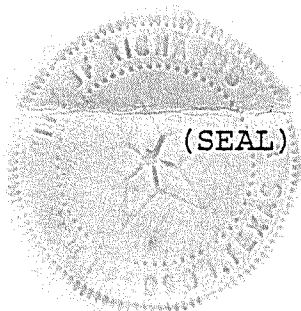
BY [Signature]
Mayor

ATTEST:

Virginia Grubbs
City Secretary

APPROVED:

[Signature]
City Attorney

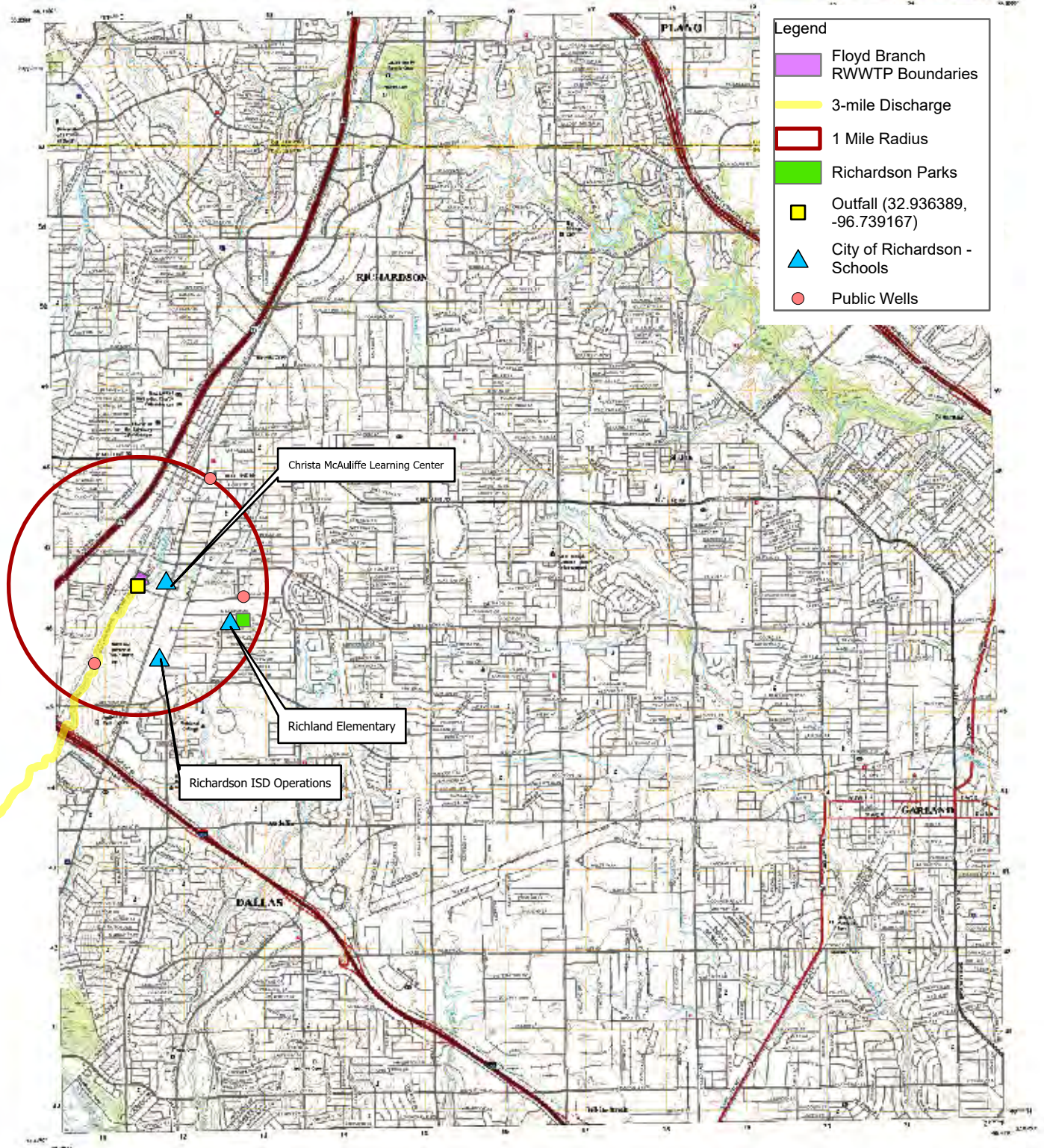
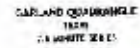
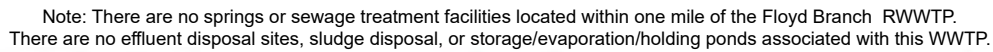


(SEAL)

TAB 16

ATTACHMENT 7

USGS TOPOGRAPHIC MAP



0 0.5 1 Miles



Floyd Branch RWWTP USGS Topographic Map

Note: There are no springs, monitoring wells, or sewage treatment facilities located within one mile of the Floyd Branch RWWTP. There are no effluent disposal sites, sludge disposal, or storage/evaporation/holding ponds associated with this WWTP.



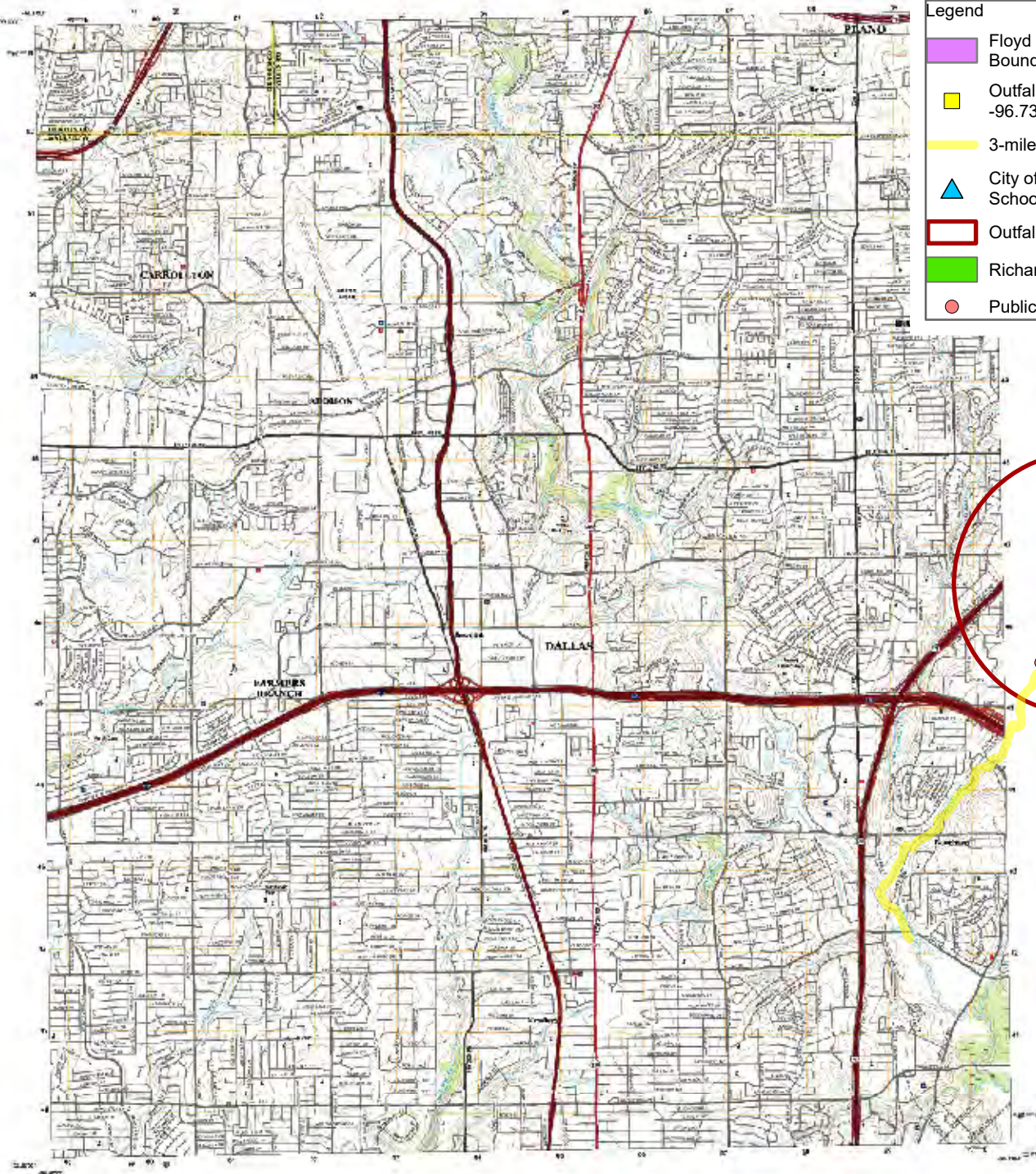
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



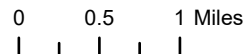
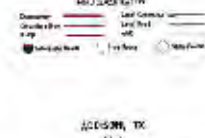
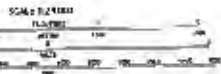
ADDITIONAL QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Legend

- Floyd Branch RWWTP Boundaries
- Outfall (32.936389, -96.739167)
- 3-mile Discharge
- City of Richardson - Schools
- Outfall 1 Mile Buffer
- Richardson Parks
- Public Wells



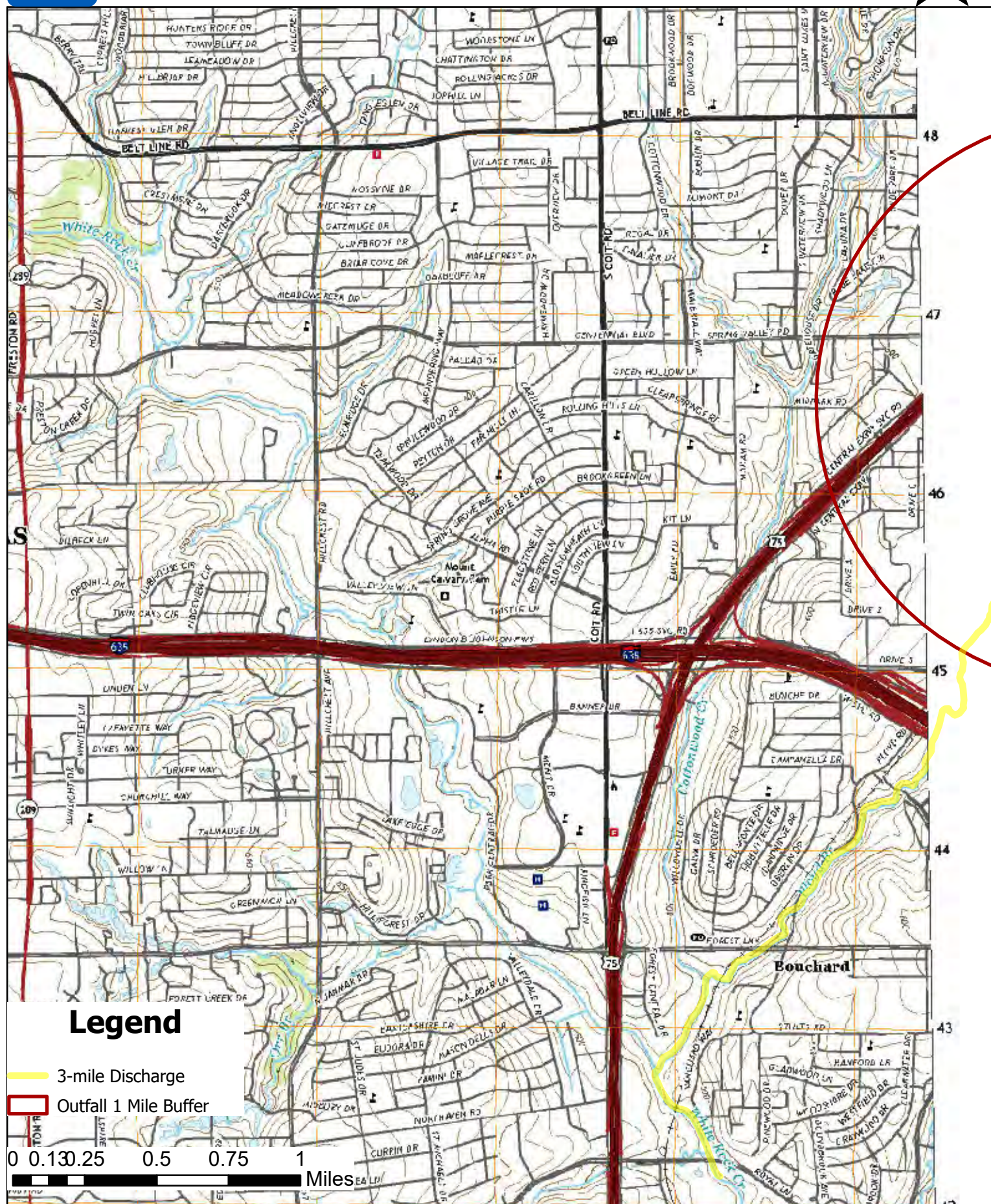
Topographic map of the Floyd Branch RWWTP area in Dallas, Texas. The map shows the city grid, major roads, and the RWWTP boundaries. A red line indicates the 3-mile discharge area, and a yellow line indicates the 1-mile buffer around the outfall. A red circle highlights the area around the outfall, showing the city of Richardson and its schools. The map includes a scale bar and a north arrow.



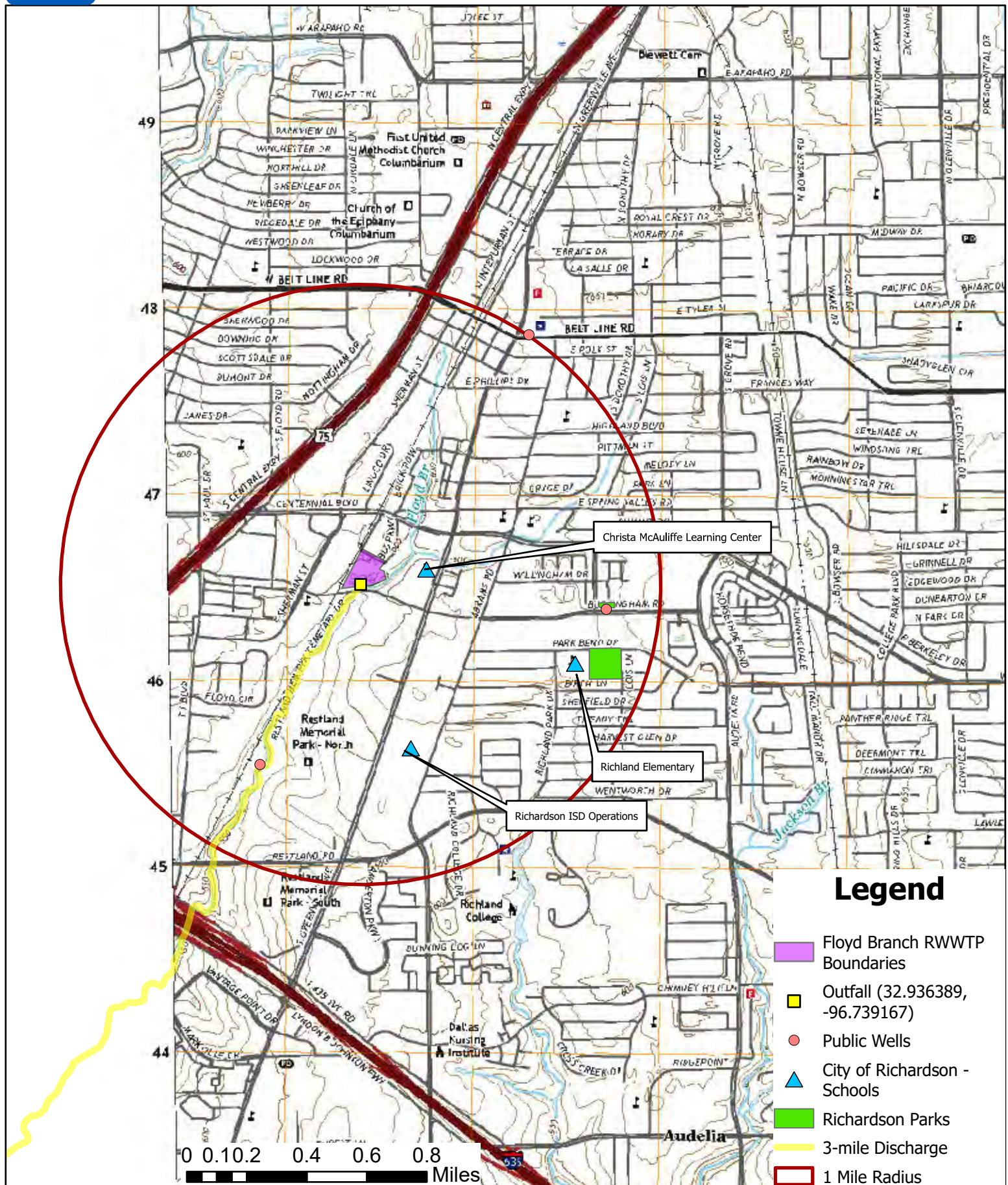


Floyd Branch RWWTP USGS Topographic Map (Zoomed In)

N



Floyd Branch RWWTP USGS Topographic Map (Zoomed In)



TAB 17

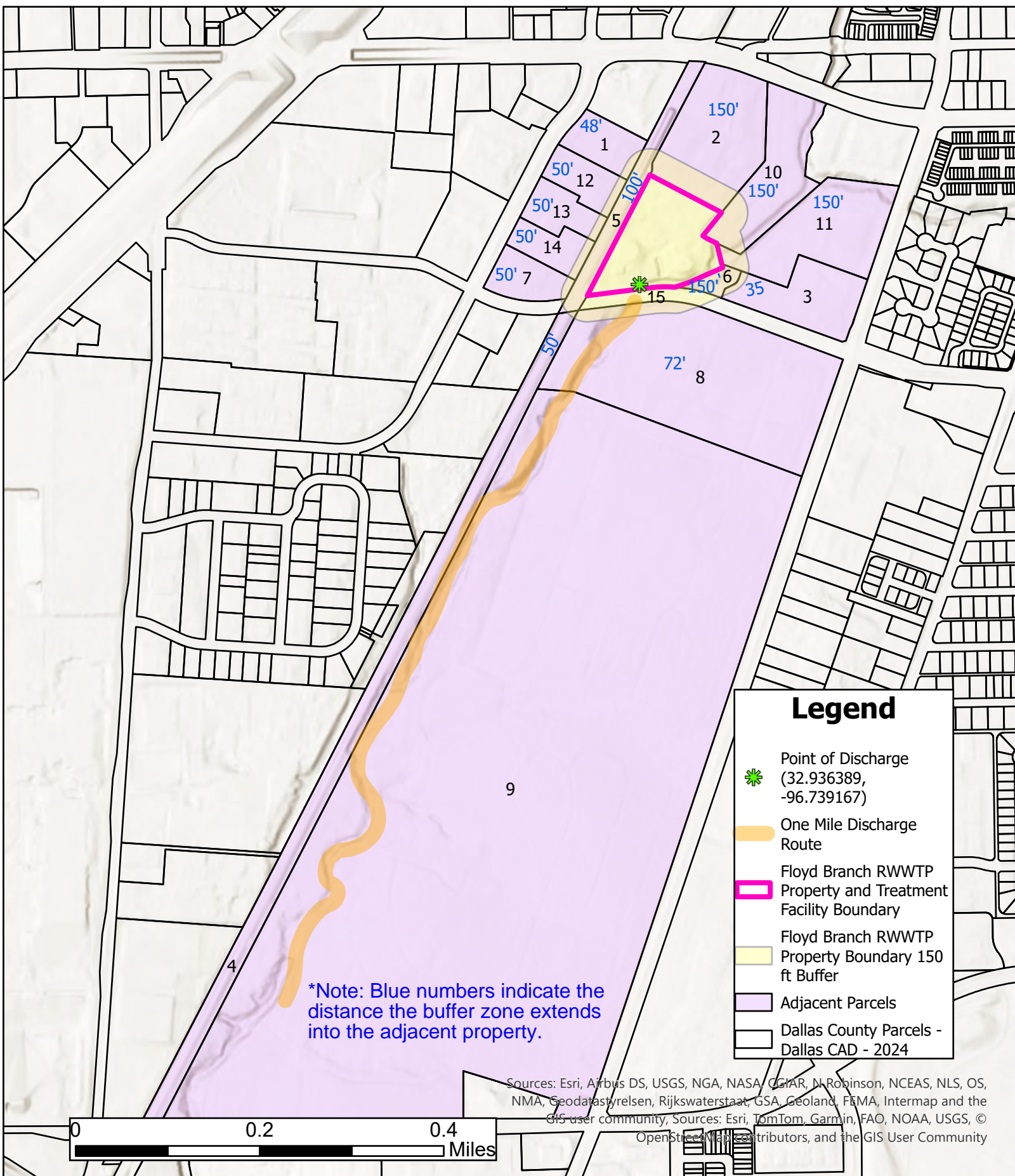
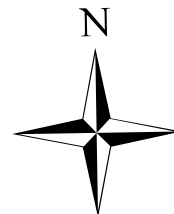
ATTACHMENT 8

LANDOWNERS MAP



Floyd Branch RWWTP Adjacent Landowners Map

This map was created using Dallas County CAD
parcel data that was last updated in 2024



FLOYD BRANCH RWWTP
CROSS-REFERENCED ADJACENT LANDOWNERS LIST

Map ID	Owner Name	Owner Address	Site Address	City	State	Zip
1	CAMPFIRE SHOPS LLC	1057 S SHERMAN ST STE 300, RICHARDSON, TX 75081	1001 S SHERMAN ST	RICHARDSON	TX	75081
2	B9 SEQUOIA RICHARDSON OWNER LP	PO BOX 2980 C/O LINK LOGISTICS, CHICAGO, IL, 60690	400 BUSINESS PKWY	RICHARDSON	TX	75081
3	TRINITY FELLOWSHIP	932 S GREENVILLE AVE, RICHARDSON, TX 75081	932 S GREENVILLE AVE	RICHARDSON	TX	75081
4	DART	PO BOX 660163 MB 7230, DALLAS, TX 75266	N/A - DART RAIL	N/A	TX	N/A
5	DART	PO BOX 660163 MB 7230, DALLAS, TX 75266	N/A - DART RAIL	N/A	TX	N/A
6	CITY OF RICHARDSON	411 W ARAPAHO RD STE 101, RICHARDSON, TX 75080	200 BUCKINGHAM RD	RICHARDSON	TX	75081
7	EVOLUTION ACADEMY	1101 S SHERMAN ST, RICHARDSON, TX 75081	1099 SHERMAN ST	RICHARDSON	TX	75081
8	NORTHSTAR CEMETERY SERVICES OF TEXAS LLC	1900 SAINT JAMES PL STE 300, HOUSTON, TX 77056	201 BUCKINGHAM RD	RICHARDSON	TX	75081
9	NORTHSTAR CEMETERY SERVICES OF TEXAS LLC	1900 SAINT JAMES PL STE 300, HOUSTON, TX 77056	9001 RESTLAND RD	DALLAS	TX	75243
10	SELFSTORAGE PORTFOLIO	PO BOX 3666, OAK BROOK, IL 60522	140 CENTENNIAL BLVD	RICHARDSON	TX	75081
11	RICHARDSON ISD	420 S GREENVILLE AVE, RICHARDSON, TX 75081	900 S GREENVILLE AVE	RICHARDSON	TX	75081
12	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1055 S SHERMAN ST	RICHARDSON	TX	75081
13	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1057 S SHERMAN ST	RICHARDSON	TX	75081
14	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1059 S SHERMAN ST	RICHARDSON	TX	75081
15	CITY OF RICHARDSON	411 W ARAPAHO RD STE 101, RICHARDSON, TX 75080	111 BUCKINGHAM RD	RICHARDSON	TX	75081

This list was created on January 12, 2024 using Dallas County CAD parcel data that was last updated in January 2024

TAB 18

ATTACHMENT 9

ORIGINAL PHOTOGRAPHS

Floyd Branch Regional Wastewater Treatment Plant

Original Photographs

Note: There are no treatment units being installed or expanded, therefore no photographs for treatment units are included.

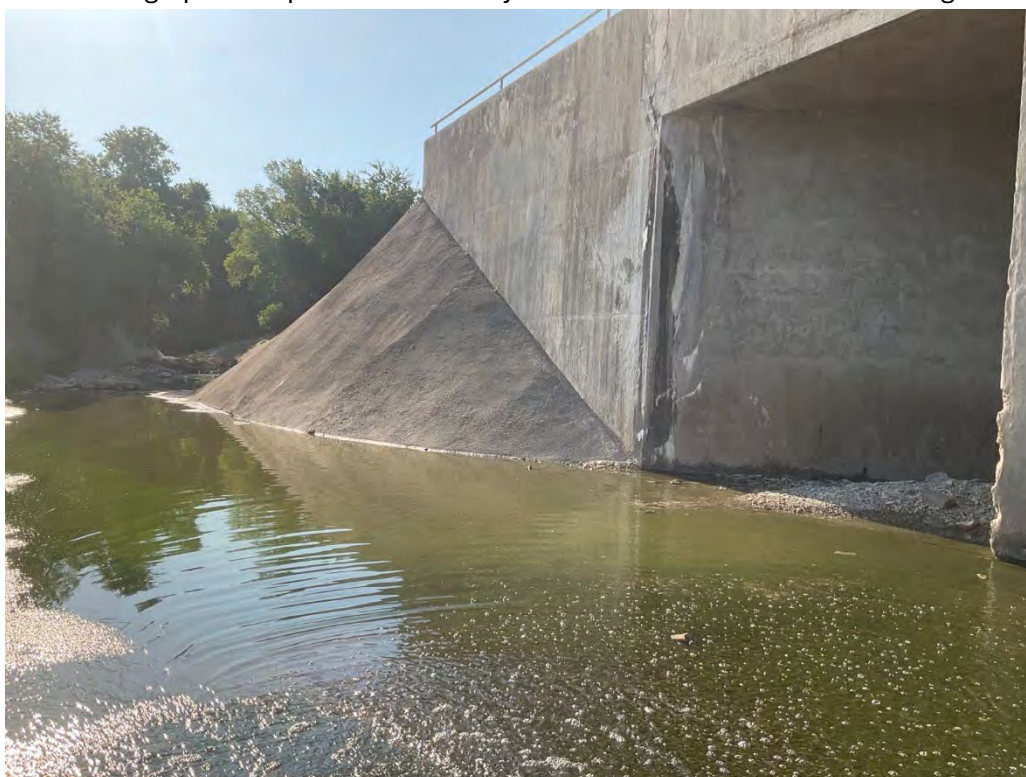
Photograph #1: Floyd Branch RWWTP Existing Point of Discharge



Photograph #2: Downstream from Floyd Branch RWWTP Point of Discharge



Photograph #3: Upstream from Floyd Branch RWWTP Point of Discharge



Map of Photographs



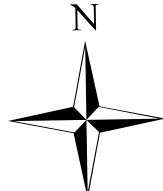
TAB 19

ATTACHMENT 10

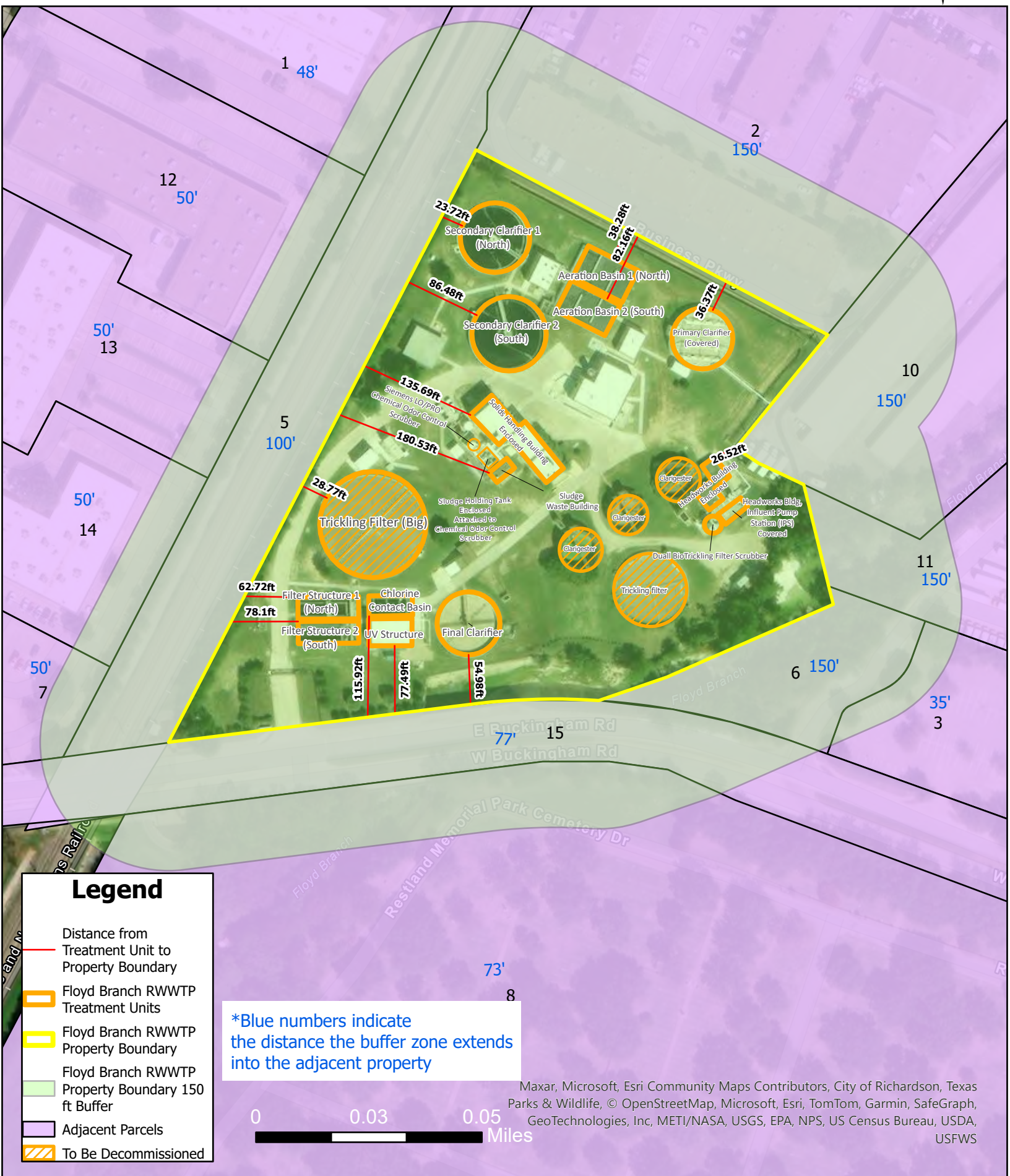
BUFFER ZONE MAP



Floyd Branch RWWTP Buffer Zone Map

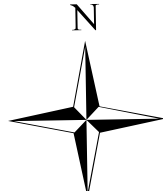


Note: There are no treatment units with anaerobic activity

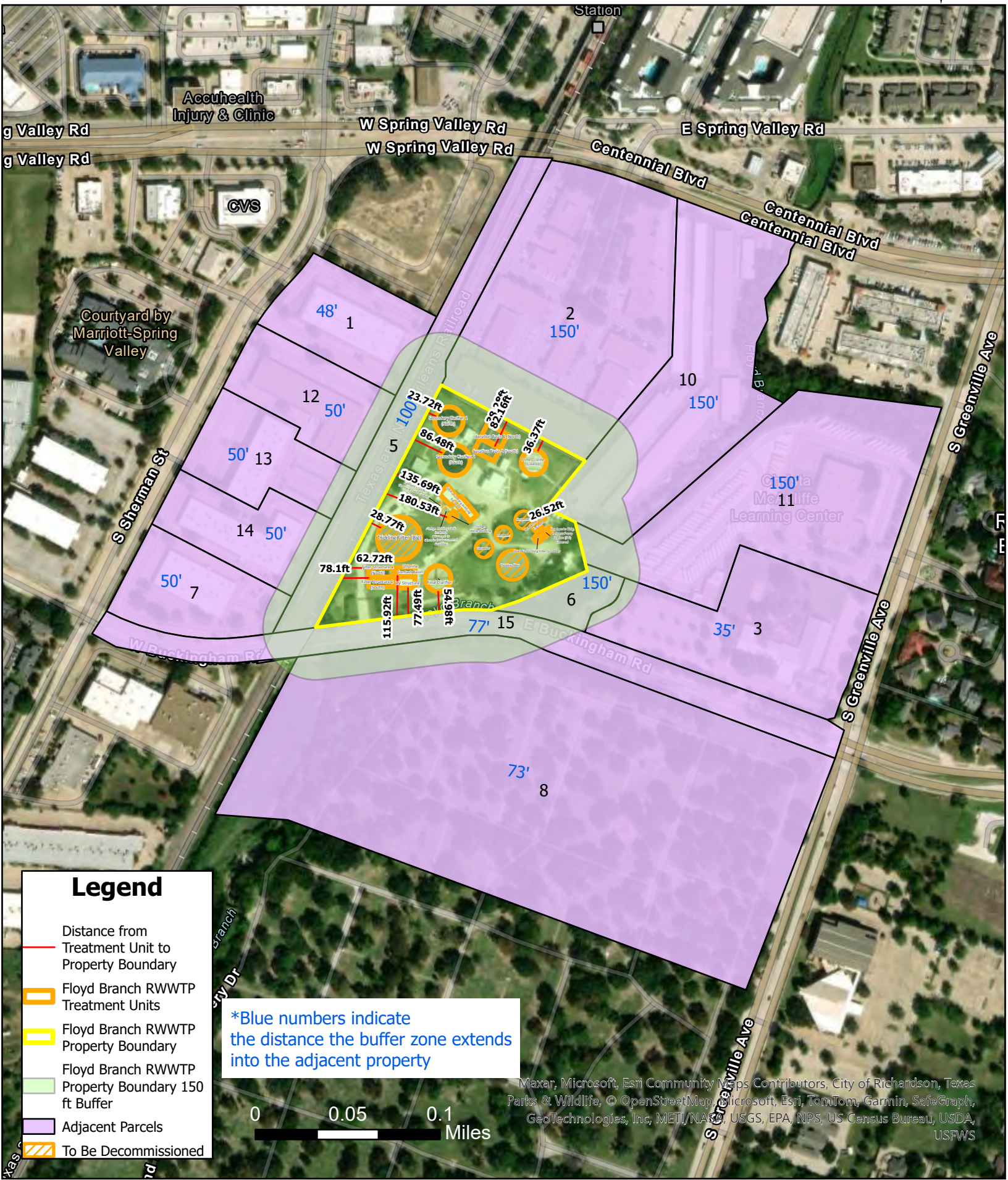




Floyd Branch RWWTP Buffer Zone Map (Zoom Out)



Note: There are no treatment units with anaerobic activity



FLOYD BRANCH RWWTP
ADJACENT LANDOWNER LIST FOR BUFFER ZONE MAP

Map ID	Owner Name	Owner Address	Site Address	City	State	Distance Within Buffer	Zip	Zoning Classification
1	CAMPFIRE SHOPS LLC	1057 S SHERMAN ST STE 300, RICHARDSON, TX 75081	1001 S SHERMAN ST	RICHARDSON	TX	48'	75081	Planned Development
2	B9 SEQUOIA RICHARDSON OWNER LP	PO BOX 2980 C/O LINK LOGISTICS, CHICAGO, IL, 60690	400 BUSINESS PKWY	RICHARDSON	TX	150'	75081	Planned Development
3	TRINITY FELLOWSHIP	932 S GREENVILLE AVE, RICHARDSON, TX 75081	932 S GREENVILLE AVE	RICHARDSON	TX	35'	75081	Planned Development
5	DART	PO BOX 660163 MB 7230, DALLAS, TX 75266	N/A - DART RAIL	N/A	TX	100'	N/A	Planned Development
6	CITY OF RICHARDSON	411 W ARAPAHO RD STE 101, RICHARDSON, TX 75080	200 BUCKINGHAM RD	RICHARDSON	TX	150'	75081	Planned Development
7	EVOLUTION ACADEMY	1101 S SHERMAN ST, RICHARDSON, TX 75081	1099 SHERMAN ST	RICHARDSON	TX	50'	75081	Planned Development
8	NORTHSTAR CEMETERY SERVICES OF TEXAS LLC	1900 SAINT JAMES PL STE 300, HOUSTON, TX 77056	201 BUCKINGHAM RD	RICHARDSON	TX	72'	75081	*No Zoning - Outside City Boundaries
10	SELFSTORAGE PORTFOLIO	PO BOX 3666, OAK BROOK, IL 60522	140 CENTENNIAL BLVD	RICHARDSON	TX	150'	75081	Planned Development
11	RICHARDSON ISD	420 S GREENVILLE AVE, RICHARDSON, TX 75081	900 S GREENVILLE AVE	RICHARDSON	TX	150'	75081	Planned Development
12	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1055 S SHERMAN ST	RICHARDSON	TX	50'	75081	Planned Development
13	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1057 S SHERMAN ST	RICHARDSON	TX	50'	75081	Planned Development
14	CAMPFIRE SHOPS LLC	16475 DALLAS PKWY STE 400, ADDISON, TX 75001	1059 S SHERMAN ST	RICHARDSON	TX	50'	75081	Planned Development
15	CITY OF RICHARDSON	411 W ARAPAHO RD STE 101, RICHARDSON, TX 75080	111 BUCKINGHAM RD	RICHARDSON	TX	77'	75081	Roadway - No zoning

This list was created on January 12, 2024 using Dallas County CAD parcel data that was last updated in January 2024

[*https://www.dallascounty.org/departments/plandev/zoning.php](https://www.dallascounty.org/departments/plandev/zoning.php)

TAB 20

ATTACHMENT 11

TREATMENT PROCESS DESCRIPTION

Floyd Branch Regional WWTP Treatment Process Description

The Floyd Branch Regional WWTP is an advanced secondary plant operated in the plug flow mode. The WWTP influent flows through a mechanical bar screen and can either be pumped to the primary clarifier then through two aeration basins, and two secondary clarifiers, or three clarifiers, two trickling filters, and a final clarifier. The clarifiers, trickling filters and final clarifiers are not currently in use and planned to be decommissioned during an upcoming improvement project. Then the wastewater will flow through two traveling bridge filters, and three channels of ultraviolet disinfection. Treated wastewater is conveyed via pipe to the point of discharge.

Solids from the primary clarifiers are conveyed to a sludge holding tank. Sludge from the secondary and final clarifiers is sent to a gravity belt thickener (GBT) then it may be pumped to a sludge holding tank, belt filter press, or screw press. Additionally, a Magnetite Ballasted Activated Sludge System can be used to treat sludge from the secondary clarifiers prior to being pumped to a gravity belt thickener. The solids in the sludge holding tank are pumped to a belt filter press or a screw press. Dewatered sludge is disposed at the NTMWD 121 Regional Disposal Facility.

TAB 21

ATTACHMENT 12

TREATMENT UNITS

Floyd Branch Regional WWTP Treatment Units

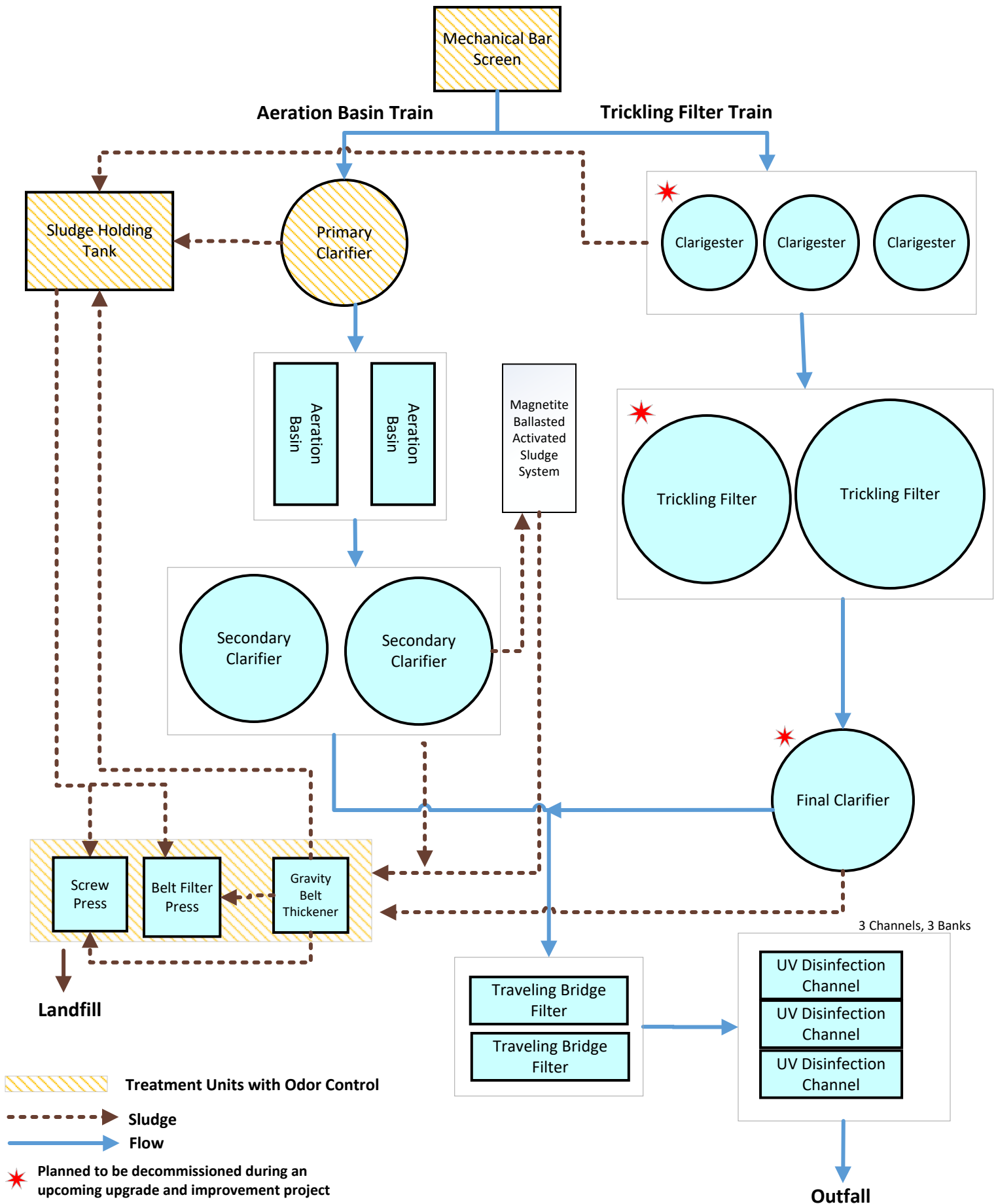
Treatment Unit Type	Number of units	Dimensions (L x W x D)
Headworks for both Trains		
Mechanical Bar Screen	1	10.5' x 4' (0.25" screen openings)
Aeration Basin Train		
Primary Clarifier	1	68' dia. x 12.1' SWD
Aeration Basins	2	68' x 42' x 19.8' SWD
Secondary Clarifier	2	80' dia. x 15' SWD
Trickling Filter Train		
Clarigester	3	Upper: 41' dia. x 10' Lower: 41' dia. x 17'
Trickling Filter	1	85' dia. x 6'
Trickling Filter	1	120 dia. x 6'
Final Clarifier	1	70' dia. x 6'
Treatment Units for both Trains		
Traveling Bridge Filters	2	56' x 16' x 9' SWD
UV Disinfection	3 Channels	3 Channels x 3 banks = 144 UV bulbs
Solids Handling for both Trains		
Sludge Holding Tank	1	22,620 gallons
Gravity Belt Thickener	1	1.5 m
Belt filter Press	1	1.5 m
Screw Press	1	14.8' x 5'
Magnetite Ballasted Activated Sludge System	N/A	N/A

TAB 22

ATTACHMENT 13

PROCESS FLOW DIAGRAM

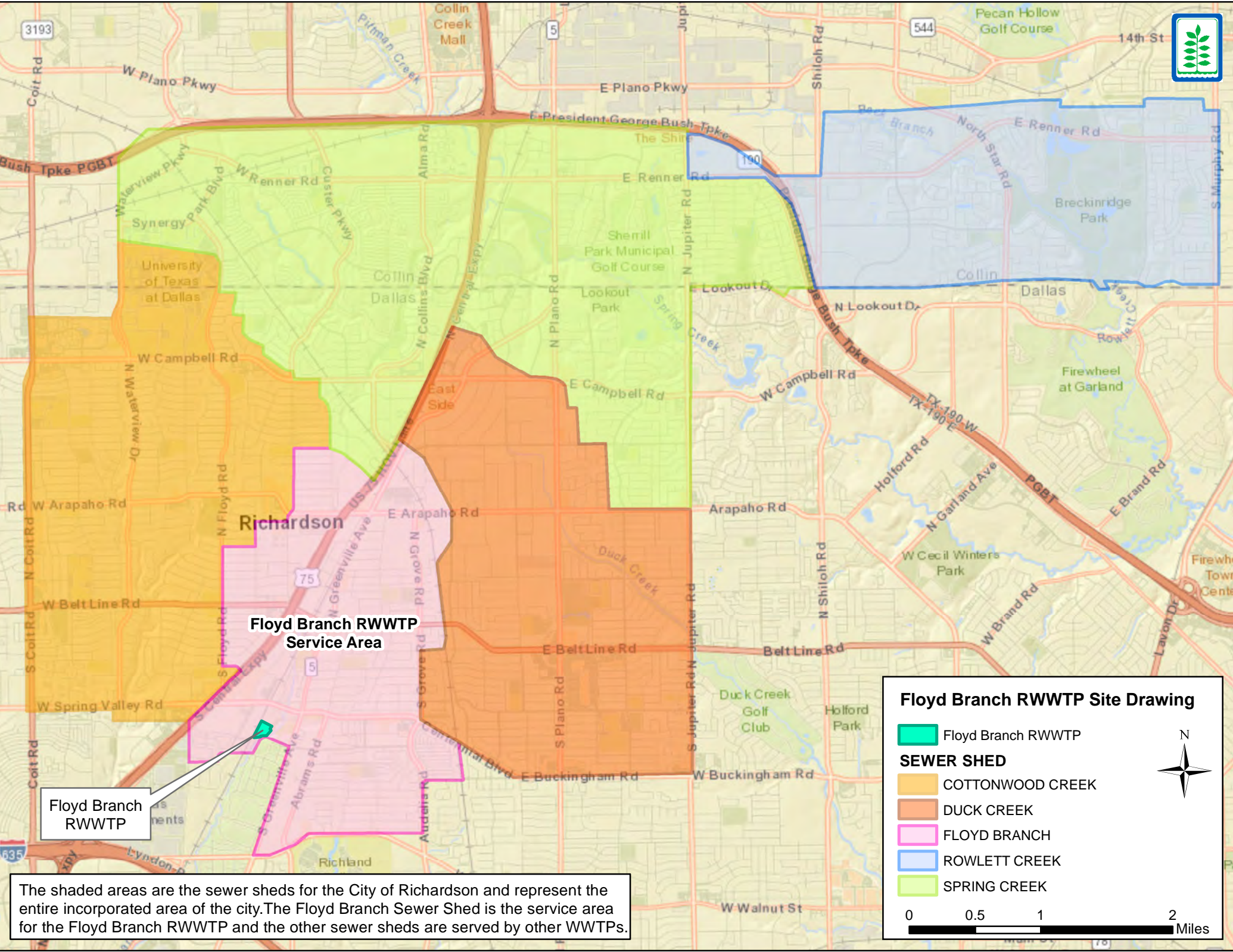
Floyd Branch Regional WWTP Flow Diagram



TAB 23

ATTACHMENT 14

SITE DRAWING



Floyd Branch
RWWTP

Floyd Branch RWWTP
Service Area

Floyd Branch RWWTP Site Drawing

Floyd Branch RWWTP

SEWER SHED

COTTONWOOD CREEK

DUCK CREEK

FLOYD BRANCH

ROWLETT CREEK

SPRING CREEK

N

00.512

Miles

The shaded areas are the sewer sheds for the City of Richardson and represent the entire incorporated area of the city. The Floyd Branch Sewer Shed is the service area for the Floyd Branch RWWTP and the other sewer sheds are served by other WWTPs.

TAB 24

ATTACHMENT 15

BUFFER ZONE REQUIREMENTS

Buffer Zone Requirements

Floyd Branch Regional Wastewater Treatment Plant

A map of the Buffer Zone is provided depicting 150' from the property line of the Floyd Branch Regional Wastewater Treatment Plant (RWWTP) and there are no treatment units with anaerobic activity. None of the properties within the Buffer Zone have residential structures and the RWWTP is not required to comply with buffer zone requirements pursuant to 30 TAC 309.13(h).

The RWWTP was constructed in 1955 and the last major amendment to change the design was in 1986 to expand the WWTP to 4.75 MGD. This expansion was prior to March 1, 1990, and the RWWTP is not required to comply with buffer zone requirements. Since 1986 the plans and specifications of several improvements for the RWWTP have been approved by the TCEQ. This amendment is to request the removal of the lead and copper effluent limitations and monitoring requirements, and changes are not being made to the current phases, flow, or design.

NTMWD goals and core values include:

1. Service- to serve our customers' best interests.
2. Stewardship- to responsibly manage public resources and treat our customers with fairness.
3. Partnership- to do what's best for our customers and the region for unity.

NTMWD's vision is to fulfill our goals and core values not only today but, in the future, and as a result NTMWD previously installed odor control equipment at the RWWTP without being required by TCEQ. A summary of the previously installed odor abatement measures include odor control equipment that was installed during two improvement projects in 2007 and 2012.

The 2007 improvements were for (1) headworks odor control that included a biotrickling filter and ventilation system, and (2) primary clarifier odor control that included a cover on the primary clarifier, ventilation system, and carbon scrubber. A Summary Transmittal Letter was submitted to the TCEQ on September 17, 2007 and a September 27, 2007 Approval Letter was received from TCEQ. The odor control improvements were completed in 2009.

The 2012 improvements were for (1) primary clarifier odor control that included launder covers on the primary clarifier, carbon scrubber for the launder covers, and (2) solids building odor control that included a new solids building, gravity belt thickener, relocated belt filter press, low profile multistage scrubber system, ventilation system, duct work joining solids building, sludge holding tank and odor control system. A Summary Transmittal Letter was submitted to the TCEQ on November 7, 2012 and a November 13, 2012 Approval Letter was received from TCEQ. The odor control improvements were completed in 2014.

Even though the RWWTP is not required to comply with buffer zone requirements, NTMWD installed odor abatement measures around 2007 and 2012. The Summary Transmittal Letters for the improvements were submitted to TCEQ, the measures were subject to TCEQ's review, and approved as documented by the Approval Letters from TCEQ. When the RWWTP is required to comply with buffer zone requirements the NTMWD has complied with odor abatement measures from the 2007 and 2012 improvements.

TAB 25

ATTACHMENT 16

OTHER REQUIREMENTS

Other Requirements

Floyd Branch Regional Wastewater Treatment Plant

The “Other Requirements” item 7 of the current TPDES Permit No. WQ0010257001, issued October 8, 2020, granted an extension of the temporary variance to the existing Texas Surface Water Quality Standard for dissolved copper in Floyd Branch and/or Cottonwood Creek in Segment No. 0827 of the Trinity River Basin.

The NTMWD submitted a final work plan dated August 31, 2016, and in accordance with the approved work plan, the NTMWD conducted a study (developed a biotic ligand model) of Floyd Branch and/or Cottonwood Creek in Segment No. 0827 of the Trinity River Basin to show whether site-specific amendment to the dissolved copper water quality standard is justified. On September 22, 2017, NTMWD submitted the results of the study using site-specific data to develop a biotic ligand model that determined a site-specific standard for copper is appropriate. The TCEQ and EPA requested more sampling be performed and evaluated. Additional samples were collected, evaluated and NTMWD submitted the revised results to the TCEQ February 14, 2019. The revised biotic ligand model determined a site-specific standard for copper of Floyd Branch and/or Cottonwood Creek is justified. The submittal included a request for a revision of the Texas Surface Water Quality Standards to reflect the proposed site-specific standard for Floyd Branch and/or Cottonwood Creek in Segment No. 0827 of the Trinity River Basin.

TCEQ approved the revision of the Texas Surface Water Quality Standards site-specific standard for Floyd Branch and/or Cottonwood Creek in Segment No. 0827 of the Trinity River Basin on September 29, 2022. The EPA approved the site-specific copper criteria on August 18, 2023. In the permit issued in 2020, TCEQ granted a variance extension to allow additional time for the site-specific copper standard to be incorporated into the Texas Water Quality Standards, and in response of the incorporation of the standard the NTMWD is requesting a major amendment of the permit for a revision of the copper permit requirement.

As required by the permit, samples were collected twice per week from the effluent, analyzed for total copper as specified in 30 TAC 319.11-319.12, and the results submitted monthly to TCEQ on the Discharge Monitoring Reports. A review of the 2,645 effluent samples collected from January 2006 – February 2024 that were analyzed for total copper illustrates that NTMWD maintained total copper below the permitted effluent limit, with an average of 17 ug/L of total copper. During the permit cycle of the current permit, October 2020 – February 2024, the effluent samples averaged 12 ug/L of total copper. Effluent samples were collected on June 28, 2022, and included in the permit renewal application submitted on April 6, 2023. Effluent samples collected from June 28, 2022 – February 15, 2024, also average 12 ug/L of total copper. Reviewing the various time frames of effluent copper data indicates that because of the site-specific copper Texas Water Quality Standard no copper effluent limitation or monitoring requirement is needed in the permit.

NTMWD requests removal of the existing total copper effluent limitation and monitoring requirement in the current permit.

TAB 26

ATTACHMENT 17

POLLUTANT ANALYSIS OF TREATED EFFLUENT

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **Permit Renewal**
Project Number: FBX
Project Manager: Kristen Suprobo

Reported:
2024-04-03 11:31

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID : 2412067-01
Sample Name : Effluent TC
Sample Alias :
Sample Type : 24 Hour Composite
Sampled Begin : 2024-03-20 08:20
Sampled Ended : 2024-03-21 08:20
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Lynn Blumen
Sampler B : Rene Barelas
Job Info :

Laboratory ID : 2412067-02
Sample Name : Effluent G
Sample Alias :
Sample Type : Grab
Sampled Begin : 2024-03-21 08:27
Sampled Ended : 2024-03-21 08:27
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Lynn Blumen
Sampler B : Rene Barelas
Job Info :

North Texas Municipal Water District



Kelly Harden, Laboratory Manager
Page 1 of 26 2412067 NTLevel2 FINAL 2024 04 03 1131



The results in this report apply to the samples analyzed in accordance with the chain of custody document.

North Texas Municipal Water District Laboratory
201 E Brown St.
Wylie, TX 75098
PMR-4 01/26/2012

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2412067-01)

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Ammonia as N	ran	ND	0.0500	0.0500	0.100	mg/L	1	2408215	2024-03-22	2024-03-22	EPA 350.1	
Total Kjeldal Nitrogen	nv	0.795	0.100	0.100	0.200	mg/L	1	2408208	2024-03-22	2024-03-22	EPA 351.2	

Conventional Chemistry Parameters by Standard Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	yjs	178	20.0	10.0	20.0	mg/L	1	2408116	2024-03-22	2024-03-22	SM 2320B	
Carbonaceous Biochemical Oxygen Demand	cjp	ND	2.2	0.1	2.0	mg/L	1.11	2408103	240321 1421	240326 0918	SM 5210B	MBN, QDA
Total Dissolved Solids	tns	615	5.00	5.00	10.0	mg/L	1	2408505	2024-03-25	2024-03-27	SM 2540C	
Total Suspended Solids	krq	ND	0.50	0.50	0.50	mg/L	1	2408125	2024-03-22	2024-03-22	SM 2540D	

Anions by EPA 300 Series
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloride	mgc	86.5	5.00	0.500	1.00	mg/L	5	2408118	2024-03-21	2024-03-21	EPA 300.0	
Sulfate	mgc	134	5.00	0.500	1.00	mg/L	5	"	2024-03-21	2024-03-21	"	

Effluent TC (2412067-01RE1)

Conventional Chemistry Parameters by EPA Methods
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Total Phosphate as P	jkp	1.65	0.250	0.0100	0.0200	mg/L	25	2408529	2024-03-28	2024-03-28	EPA 365.1	

Effluent G (2412067-02)

Conventional Chemistry Parameters by Field Personnel
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Residual Chlorine	lb/rb	ND	0.0400		0.0400	mg/L	1	2408113	240321 0827	240321 0827	4500-Cl-G	AccFD
Conductance at 25°C	lb/rb	965.0	2.000		2.000	uS/cm	1	"	2024-03-21	2024-03-21	SM 2510B	AccFD
Dissolved Oxygen	lb/rb	8.26				mg/L	1	"	240321 0827	240321 0827	SM 4500-O-G	AccFD
pH	lb/rb	7.51				pH/SU	1	"	240321 0827	240321 0827	SM 4500-H-B	AccFD
Temperature	lb/rb	20.8				°C	1	"	240321 0827	240321 0827	SM 2550B	AccFD

Coliform by Quantitray
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
North Texas Municipal Water District												

ANALYTICAL REPORT FOR SAMPLES

Effluent G (2412067-02)

Coliform by Quantitray
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Escherichia Coliform	srb	1.0	1.0	1.0	1.0	MPN/10 0mL	1	2408106	240321 1100	240322 1116	MPN E-Coli	

HEM and SGT-HEM
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (Hexane Extr)	cgg	ND	2.22	1.14	5.00	mg/L	1	19006	2024-04-01	2024-04-01	1664B	SUB

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by EPA Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408208 - [351.2 TKN Digestion] 351.2 TKN Digestion											
Blank (2408208-BLK1)				Prepared & Analyzed: 2024-03-22							
Total Kjeldal Nitrogen	ND	0.200	mg/L		0.100						
LCS (2408208-BS1)				Prepared & Analyzed: 2024-03-22							
Total Kjeldal Nitrogen	2.01	0.200	mg/L	2.00	0.100		101	90-110			
LCS Dup (2408208-BSD1)				Prepared & Analyzed: 2024-03-22							
Total Kjeldal Nitrogen	2.03	0.200	mg/L	2.00	0.100		101	90-110	0.842	10	
LOQ Check Standard (2408208-MRL1)				Prepared & Analyzed: 2024-03-22							
Total Kjeldal Nitrogen	0.206	0.200	mg/L	0.200	0.100		103	70-130			
Matrix Spike (2408208-MS1)				Source: 2411002-01		Prepared & Analyzed: 2024-03-22					
Total Kjeldal Nitrogen	2.76	0.200	mg/L	2.00	0.100	0.819	96.9	90-110			
Matrix Spike (2408208-MS2)				Source: 2411002-11		Prepared & Analyzed: 2024-03-22					
Total Kjeldal Nitrogen	2.06	0.200	mg/L	2.00	0.100	0.126	96.8	90-110			
Matrix Spike Dup (2408208-MSD1)				Source: 2411002-01		Prepared & Analyzed: 2024-03-22					
Total Kjeldal Nitrogen	2.82	0.200	mg/L	2.00	0.100	0.819	100	90-110	2.19	10	
Matrix Spike Dup (2408208-MSD2)				Source: 2411002-11		Prepared & Analyzed: 2024-03-22					
Total Kjeldal Nitrogen	1.99	0.200	mg/L	2.00	0.100	0.126	93.2	90-110	3.60	10	
Reference (2408208-SRM1)				Prepared & Analyzed: 2024-03-22							
Total Kjeldal Nitrogen	1.02	0.200	mg/L	0.987	0.100		103	75-122			
Batch 2408215 - [350.1 NH3 w/o Distillation] 350.1 NH3 without Distillation											
Blank (2408215-BLK1)				Prepared & Analyzed: 2024-03-22							
Ammonia as N	ND	0.100	mg/L		0.0500						
LCS (2408215-BS1)				Prepared & Analyzed: 2024-03-22							
Ammonia as N	2.01	0.100	mg/L	2.00	0.0500		100	90-110			
LCS Dup (2408215-BSD1)				Prepared & Analyzed: 2024-03-22							
Ammonia as N	2.02	0.100	mg/L	2.00	0.0500		101	90-110	0.596	10	
Matrix Spike (2408215-MS1)				Source: 2412185-04		Prepared & Analyzed: 2024-03-22					
Ammonia as N	2.07	0.100	mg/L	2.00	0.0500	0.0710	100	90-110			
Matrix Spike (2408215-MS2)				Source: 2412205-01		Prepared & Analyzed: 2024-03-22					
Ammonia as N	69.4	2.00	mg/L	40.0	1.00	29.7	99.3	90-110			
Matrix Spike Dup (2408215-MSD1)				Source: 2412185-04		Prepared & Analyzed: 2024-03-22					
Ammonia as N	2.08	0.100	mg/L	2.00	0.0500	0.0710	101	90-110	0.385	10	
Matrix Spike Dup (2408215-MSD2)				Source: 2412205-01		Prepared & Analyzed: 2024-03-22					
Ammonia as N	69.5	2.00	mg/L	40.0	1.00	29.7	99.3	90-110	0.0288	10	

North Texas Municipal Water District

Floyd Branch WWTP 111 E. Buckingham Richardson, TEXAS 75081	Project: Permit Renewal Project Number: FBX Project Manager: Kristen Suprobo	Reported: 2024-04-03 11:31
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ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by EPA Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408529 - [365.1 PO4 Digestion] 365.3 PO4 Digestion											
Blank (2408529-BLK1)						Prepared & Analyzed: 2024-03-28					
Total Phosphate as P	ND	0.0200	mg/L		0.0100						
LCS (2408529-BS1)						Prepared & Analyzed: 2024-03-28					
Total Phosphate as P	0.0950	0.0200	mg/L	0.100	0.0100		95.0	90-110			
LCS Dup (2408529-BSD1)						Prepared & Analyzed: 2024-03-28					
Total Phosphate as P	0.0980	0.0200	mg/L	0.100	0.0100		98.0	90-110	3.11	10	
Matrix Spike (2408529-MS1)						Source: 2412203-02RE1		Prepared & Analyzed: 2024-03-28			
Total Phosphate as P	1.18	0.0667	mg/L	0.333	0.0333	0.887	89.0	90-110			QMF
Matrix Spike (2408529-MS2)						Source: 2412204-01RE1		Prepared & Analyzed: 2024-03-28			
Total Phosphate as P	7.72	0.500	mg/L	2.50	0.250	5.38	94.0	90-110			
Matrix Spike Dup (2408529-MSD1)						Source: 2412203-02RE1		Prepared & Analyzed: 2024-03-28			
Total Phosphate as P	1.22	0.0667	mg/L	0.333	0.0333	0.887	99.0	90-110	2.78	10	QMF
Matrix Spike Dup (2408529-MSD2)						Source: 2412204-01RE1		Prepared & Analyzed: 2024-03-28			
Total Phosphate as P	8.12	0.500	mg/L	2.50	0.250	5.38	110	90-110	5.05	10	
Reference (2408529-SRM1)						Prepared & Analyzed: 2024-03-28					
Total Phosphate as P	2.00	0.500	mg/L	2.01	0.250		99.5	81-117			

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408103 - [GenChem Demand]											
Blank (2408103-BLK1)						Prepared: 2024-03-21 Analyzed: 2024-03-26					
Carbonaceous Biochemical Oxygen Demand	ND	2.0	mg/L		0.1						MBN, QDA
LCS (2408103-BS1)						Prepared: 2024-03-21 Analyzed: 2024-03-26					
Carbonaceous Biochemical Oxygen Demand	199	100	mg/L	198	5.0		100	84-115			MBN, QDA
Duplicate (2408103-DUP1)						Source: 2412175-02		Prepared: 2044-03-21 Analyzed: 2024-03-26			
Carbonaceous Biochemical Oxygen Demand	1.02	2.2	mg/L		0.1	1.27			22.3	15	MBN, QDA
Batch 2408116 - [Water Quality Preparation] Water Quality Preparation											
Blank (2408116-BLK1)						Prepared & Analyzed: 2024-03-22					
Total Alkalinity	ND	20.0	mg/L		10.0						
LCS (2408116-BS1)						Prepared & Analyzed: 2024-03-22					

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2408116 - [Water Quality Preparation] Water Quality Preparation

LCS (2408116-BS1)				Prepared & Analyzed: 2024-03-22							
Total Alkalinity	50.0	20.0	mg/L	50.0	10.0		99.9	90-110			
LCS Dup (2408116-BSD1)				Prepared & Analyzed: 2024-03-22							
Total Alkalinity	49.9	20.0	mg/L	50.0	10.0		99.8	90-110	0.140	10	
Duplicate (2408116-DUP1)				Source: 2411002-01		Prepared & Analyzed: 2024-03-22					
Total Alkalinity	139	20.0	mg/L		10.0	140			0.0430	10	
Duplicate (2408116-DUP2)				Source: 2412180-05		Prepared & Analyzed: 2024-03-22					
Total Alkalinity	137	20.0	mg/L		10.0	137			0.0805	10	
LOQ Check Standard (2408116-MRL1)				Prepared & Analyzed: 2024-03-22							
Total Alkalinity	20.5	20.0	mg/L	20.0	10.0		103	70-130			

Batch 2408125 - [Solids Preparation]

Blank (2408125-BLK1)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2408125-BLK2)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2408125-BLK3)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	ND	0.50	mg/L		0.50						
Blank (2408125-BLK4)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	ND	0.50	mg/L		0.50						
LCS (2408125-BS1)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	40.0	5.00	mg/L	40.0	5.00		100	80-120			
LCS (2408125-BS2)				Prepared: 2024-03-11 Analyzed: 2024-03-22							
Total Suspended Solids	246	0.50	mg/L	236	0.50		104	80-120			
Duplicate (2408125-DUP1)				Source: 2412127-05		Prepared: 2024-03-11 Analyzed: 2024-03-22					
Total Suspended Solids	7200	100	mg/L		100	7180			0.278	10	
Duplicate (2408125-DUP2)				Source: 2412178-08		Prepared: 2024-03-11 Analyzed: 2024-03-22					
Total Suspended Solids	12900	100	mg/L		100	12900			0.00	10	
Duplicate (2408125-DUP3)				Source: 2412172-15		Prepared: 2024-03-11 Analyzed: 2024-03-22					
Total Suspended Solids	7760	100	mg/L		100	7800			0.514	10	
Duplicate (2408125-DUP4)				Source: 2412204-19		Prepared: 2024-03-11 Analyzed: 2024-03-22					
Total Suspended Solids	3320	100	mg/L		100	3260			1.82	10	

Batch 2408505 - [Solids Preparation]

Blank (2408505-BLK1)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
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North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Conventional Chemistry Parameters by Standard Methods - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408505 - [Solids Preparation]											
Blank (2408505-BLK1)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
Total Dissolved Solids	ND	10.0	mg/L		5.00						
Blank (2408505-BLK2)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
Total Dissolved Solids	ND	10.0	mg/L		5.00						
Blank (2408505-BLK3)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
Total Dissolved Solids	ND	10.0	mg/L		5.00						
LCS (2408505-BS1)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
Total Dissolved Solids	241	10.0	mg/L	240	5.00		100	80-120			
Duplicate (2408505-DUP1)		Source: 2411002-01			Prepared: 2024-03-25 Analyzed: 2024-03-27						
Total Dissolved Solids	185	10.0	mg/L		5.00	184			0.542	10	
Duplicate (2408505-DUP2)		Source: 2412067-01			Prepared: 2024-03-25 Analyzed: 2024-03-27						
Total Dissolved Solids	615	10.0	mg/L		5.00	615			0.00	10	
Duplicate (2408505-DUP3)		Source: 2413018-02			Prepared: 2024-03-25 Analyzed: 2024-03-27						
Total Dissolved Solids	286	10.0	mg/L		5.00	285			0.350	10	
LOQ Check Standard (2408505-MRL1)				Prepared: 2024-03-25 Analyzed: 2024-03-27							
Total Dissolved Solids	9.00	10.0	mg/L	9.60	5.00		93.8	70-130			

Coliform by Quantitray - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408106 - [IDEXX Colilert Quantitray] IDEXX Colilert Quantitray											
Blank (2408106-BLK1)				Prepared: 2024-03-21 Analyzed: 2024-03-22							
Escherichia Coliform	ND	1.0	MPN/100mL		1.0						
Duplicate (2408106-DUP1)		Source: 2412176-03			Prepared: 2024-03-21 Analyzed: 2024-03-22						
Escherichia Coliform	1.0	1.0	MPN/100mL		1.0	ND				200	
Duplicate (2408106-DUP2)		Source: 2412177-03			Prepared: 2024-03-21 Analyzed: 2024-03-22						
Escherichia Coliform	14.8	1.0	MPN/100mL		1.0	8.6			53.0	200	

Anions by EPA 300 Series - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408118 - [300.0 Anions] 300.0 Anions											

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Anions by EPA 300 Series - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2408118 - [300.0 Anions] 300.0 Anions											
Blank (2408118-BLK1)				Prepared & Analyzed: 2024-03-21							
Chloride	ND	1.00	mg/L		0.500						
Sulfate	ND	1.00	"		0.500						
LCS (2408118-BS1)				Prepared & Analyzed: 2024-03-21							
Sulfate	30.2	1.00	mg/L	30.0	0.500		101	90-110			
Chloride	29.4	1.00	"	30.0	0.500		98.2	90-110			
LCS Dup (2408118-BSD1)				Prepared & Analyzed: 2024-03-21							
Sulfate	30.3	1.00	mg/L	30.0	0.500		101	90-110	0.370	10	
Chloride	29.5	1.00	"	30.0	0.500		98.3	90-110	0.183	10	
LOQ Check Standard (2408118-MRL2)				Prepared & Analyzed: 2024-03-21							
Chloride	4.93	1.00	mg/L	5.00	0.500		98.6	70-130			
Sulfate	4.92	1.00	"	5.00	0.500		98.4	70-130			
Matrix Spike (2408118-MS1)			Source: 2411003-01		Prepared & Analyzed: 2024-03-21						
Chloride	591	10.0	mg/L	300	5.00	302	96.5	80-120			
Sulfate	558	10.0	"	300	5.00	251	102	80-120			
Matrix Spike (2408118-MS2)			Source: 2411148-02		Prepared & Analyzed: 2024-03-21						
Chloride	425	10.0	mg/L	300	5.00	121	101	80-120			
Sulfate	506	10.0	"	300	5.00	175	110	80-120			
Matrix Spike Dup (2408118-MSD1)			Source: 2411003-01		Prepared & Analyzed: 2024-03-21						
Chloride	602	10.0	mg/L	300	5.00	302	100	80-120	1.89	10	
Sulfate	570	10.0	"	300	5.00	251	106	80-120	2.05	10	
Matrix Spike Dup (2408118-MSD2)			Source: 2411148-02		Prepared & Analyzed: 2024-03-21						
Chloride	416	10.0	mg/L	300	5.00	121	98.4	80-120	2.05	10	
Sulfate	495	10.0	"	300	5.00	175	107	80-120	2.20	10	

ANALYTICAL REPORT FOR SAMPLES

General Notes and Definitions

DET	Analyte DETECTED
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
SRL	Sample Reporting Limit
Note:	"Conductance at 25°C" is also known as Specific Conductance

Report Notes and Definitions

AccFD	Field Data, not performed by laboratory, presented per client request.
MBN	Method Blank between 0.2 and 1.0 mg/L in associated batch method blank for BOD/CBOD.
QDA	Quality control criteria is acceptable with duplicate RPD failure due to reported value equal or below PQL at maximum sample aliquot method volume.
QMF	Reportable Data is valid. MS % recovery, MSD % recovery, and/or RPD failed MS1: 89.0%, MSD1: 99.0%, RPD: 2.78%; however, all LCS/LCSD criteria passed.
SUB	QA/QC for subcontracted analysis appears on hardcopy of subcontract laboratory report.

081220624 153315

Floyd Branch WWTP
1111 E. Buckingham
Richardson, TX 75098
Contact: KRISTEN SUPROBO

NTMWD Chain of Custody Record

EFFLUENT COLLECTION TEAM

Comp. Sx. Beg/End Date/Time 3-21-24 8:20 AM

Sample Collector Name(s): Lynn Blum

3-21-24 8:20 AM

Gene Barellos

Page 1 of 2

Work Order Number: 2412067

Project: Permit Renewal (Resample)

Reviewed By: [Signature]

Effluent Residual

Chlorine

<0.04 mg/L

Version 1.0 Updated: 4/20/2022

41 HDPE Lutes

500 ml HDPE Lutes

250 ml HDPE Lutes

100ml Becl

500 ml HDPE HNO3

250 ml HDPE HNO3

40 ml VOA

20 ml Amber H2SO4

10 ml Amber H2SO4

10 ml Amber Glass

Temperature IR# 23

Cooler Info

C TempC Ctr On Ice

Obs Cor ID Y/N

1 1451421A X

2 59562A X

3

4

5

6

Preservation

Chl Adj. By: EM

pH Strips N-180123

Items Adjusted

to pH < 2

Reagent N

ID pH_i ID pH_f

to pH > 10

Reagent N

ID pH_i ID pH_f

Oil and Grease

X

See Subcontract COC

Field Data					
Sx. Nu	Sample Name	Chlorine Residual	Conductivity uS/cm	DO mg/L	pH SU
02	Effluent G	<0.04	965	8.26	7.51
					20.8

Relinquished by: [Signature]

Date: 3-21-24

Time: 9:53

Received for Laboratory by: [Signature]

Date: 3-21-24

Time: 9:53

Relinquished by: [Signature]

Date: 3-21-24

Time: 9:53

Received for Laboratory by: [Signature]

Date: 3-21-24

Time: 9:53

Relinquished by: [Signature]

Date: 3-21-24

Time: 9:53

Received for Laboratory by: [Signature]

Date: 3-21-24

Time: 9:53

Remarks: IN-HOUSE PARAMETERS

#2408113

Wp

C-36-293R-3E-07/05/16

[illegible]

ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Harden
North Texas Municipal Water District
PO BOX 2408
Wylie, Texas 75098

Generated 4/1/2024 5:28:11 PM

JOB DESCRIPTION

Floyd Branch WWTP
2412067

JOB NUMBER

870-25577-1

Eurofins Dallas
9701 Harry Hines Blvd
Dallas TX 75220

See page two for job notes and contact information.

Page 1 of 15



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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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4/1/2024 5:28:11 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Qualifiers

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Page 4 of 15

4/1/2024

Case Narrative

Client: North Texas Municipal Water District
Project: Floyd Branch WWTP

Job ID: 870-25577-1

Job ID: 870-25577-1

Eurofins Dallas

Job Narrative 870-25577-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 3/25/2024 5:38 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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3

4

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6

7

8

9

10

11

12

13

14

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Page 5 of 15

4/1/2024

Detection Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Client Sample ID: Effluent G

Lab Sample ID: 870-25577-1

No Detections.

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This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Client Sample ID: Effluent G

Lab Sample ID: 870-25577-1

Date Collected: 03/21/24 08:27

Matrix: Water

Date Received: 03/25/24 17:38

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General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<2.22	U	9.75	2.22	mg/L			04/01/24 10:08	1

Eurofins Dallas

QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 870-19006/1
Matrix: Water
Analysis Batch: 19006
Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<1.14	U	5.00	1.14	mg/L			04/01/24 10:08	1

Lab Sample ID: LCS 870-19006/2
Matrix: Water
Analysis Batch: 19006
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM	40.0	33.20		mg/L		83	78 - 114

Lab Sample ID: LCSD 870-19006/3
Matrix: Water
Analysis Batch: 19006
Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM	40.0	32.10		mg/L		80	78 - 114	3	11

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QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

General Chemistry

Analysis Batch: 19006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-25577-1	Effluent G	Total/NA	Water	1664B	
MB 870-19006/1	Method Blank	Total/NA	Water	1664B	
LCS 870-19006/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 870-19006/3	Lab Control Sample Dup	Total/NA	Water	1664B	

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Page 9 of 15

4/1/2024

Lab Chronicle

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Client Sample ID: Effluent G

Lab Sample ID: 870-25577-1

Date Collected: 03/21/24 08:27

Matrix: Water

Date Received: 03/25/24 17:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1664B		1	513 mL	1000 mL	19006	04/01/24 10:08	CGG	EET DAL

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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Accreditation/Certification Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Laboratory: Eurofins Dallas

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704295-23-34	06-30-24

1
2
3
4
5
6
7
8
9
10
11
12
13
14

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Method Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Method	Method Description	Protocol	Laboratory
1664B	HEM and SGT-HEM	1664B	EET DAL

Protocol References:

1664B = EPA-821-98-002

Laboratory References:

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Eurofins Dallas

Sample Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP

Job ID: 870-25577-1
SDG: 2412067

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
870-25577-1	Effluent G	Water	03/21/24 08:27	03/25/24 17:38

- 1
- 2
- 3
- 4
- 5
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- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: North Texas Municipal Water District

Job Number: 870-25577-1

SDG Number: 2412067

Login Number: 25577

List Number: 1

Creator: Phillips, Weston

List Source: Eurofins Dallas

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Eurofins Dallas

Page 15 of 15

4/1/2024

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID : 2324004-01
Sample Name : Influent TC
Sample Alias :
Sample Type : 24 Hour Composite
Sampled Begin : 2023-06-14 08:30
Sampled Ended : 2023-06-15 08:30
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

Laboratory ID : 2324004-02
Sample Name : Influent Equipment Blank
Sample Alias :
Sample Type : Grab
Sampled Begin : 2023-06-13 09:40
Sampled Ended : 2023-06-13 09:40
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

Laboratory ID : 2324004-03
Sample Name : Influent G
Sample Alias :
Sample Type : Grab
Sampled Begin : 2023-06-15 08:30
Sampled Ended : 2023-06-15 08:30
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

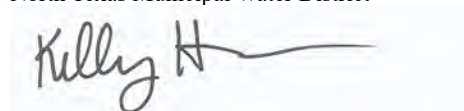
Laboratory ID : 2324004-04
Sample Name : Effluent TC
Sample Alias :
Sample Type : 24 Hour Composite
Sampled Begin : 2023-06-14 09:00
Sampled Ended : 2023-06-15 09:00
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

Laboratory ID : 2324004-05
Sample Name : Effluent Equipment Blank
Sample Alias :
Sample Type : Grab
Sampled Begin : 2023-06-13 09:55
Sampled Ended : 2023-06-13 09:55
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

Laboratory ID : 2324004-06
Sample Name : Effluent G
Sample Alias :
Sample Type : Grab
Sampled Begin : 2023-06-15 09:00
Sampled Ended : 2023-06-15 09:00
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

Laboratory ID : 2324004-07
Sample Name : Trip Blank
Sample Alias :
Sample Type : Grab
Sampled Begin : 2023-06-13 10:05
Sampled Ended : 2023-06-13 10:05
Matrix : Aqueous; (Water)
Outfall :
Sampler A : Yilma Zerihun
Sampler B : Gary Usey
Job Info :

North Texas Municipal Water District



Kelly Harden, Laboratory Manager



The results in this report apply to the samples analyzed in accordance with the chain of custody document.

North Texas Municipal Water District Laboratory
201 E Brown St.
Wylie, TX 75098
PMR-4 01/26/2012

Page 1 of 95

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Silver	lmg	ND	0.500	0.250	0.500	ug/L	1	2317131	2023-06-21	2023-06-23	EPA 200.8	
Aluminum	lmg	73.6	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	
Arsenic	lmg	1.07	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Barium	lmg	60.7	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Beryllium	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Cadmium	lmg	ND	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Chromium	lmg	ND	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	
Copper	lmg	57.6	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Nickel	lmg	6.07	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Lead	lmg	0.636	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Selenium	lmg	1.42	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Thallium	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Zinc	lmg	41.1	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	

Total Mercury by EPA 245.7

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Mercury	ran	0.00698	0.00500	0.00180	0.00500	ug/L	1	2317814	2023-06-29	2023-06-29	EPA 245.7	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Fluoride	mgc	0.429	0.050	0.025	0.050	mg/L	1	2316634	2023-06-15	2023-06-16	EPA 300.0	
Nitrate as N	mgc	ND	0.050	0.025	0.050	mg/L	1	"	230615 1551	230616 1458	"	

Carbamate and Urea Pesticides (HPLC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Diuron	aa	0.0304	0.00514	0.0514	0.0900	ug/L	1	109837	2023-06-28	2023-07-07	632	H,SUB
Carbaryl	aa	ND	0.185	1.85	5.00	ug/L	1	"	2023-06-28	2023-07-07	"	H,SUB

Herbicides (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2,4-Dichlorophenylacetic acid		137 %		45-150			1	108342	2023-06-18	2023-06-19	615	SUB
Hexachlorophene	wp	ND	0.826	0.000823	0.00509	ug/L	1	"	2023-06-18	2023-06-19	"	SUB
Dinoseb	wp	ND	0.0351	0.0000340	0.000204	ug/L	1	"	2023-06-18	2023-06-19	"	*,SUB
Dicamba	wp	ND	0.0433	0.0000430	0.000204	ug/L	1	"	2023-06-18	2023-06-19	"	SUB
2,4-D	wp	ND	0.0551	0.0000540	0.000204	ug/L	1	"	2023-06-18	2023-06-19	"	SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01)

Herbicides (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Dalapon	wp	ND	0.0487	0.0000487	0.000204	ug/L	1	108342	2023-06-18	2023-06-19	615	SUB
Silvex (2,4,5-TP)	wp	ND	0.0431	0.0000431	0.000204	ug/L	1	"	2023-06-18	2023-06-19	"	SUB
Pentachlorophenol	wp	ND	0.0453	0.0000453	0.000204	ug/L	1	"	2023-06-18	2023-06-19	"	SUB

Organochlorine Pesticides in Water

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Tetrachloro-m-xylene		76 %		18-126			1	108599	2023-06-20	2023-06-20	EPA 608.3	p,SUB
Surrogate: DCB Decachlorobiphenyl (Surr)		99 %		15-136			1	"	2023-06-20	2023-06-20	"	SUB
Endrin	wp	ND	0.00156	0.00156	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endrin aldehyde	wp	ND	0.00118	0.00118	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endosulfan I	wp	ND	0.00107	0.00107	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
delta-BHC	wp	ND	0.00245	0.00245	0.250	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
beta-BHC	wp	ND	0.00389	0.00389	0.0180	ug/L	1	"	2023-06-20	2023-06-20	"	*+,SUB
Endosulfan sulfate	wp	ND	0.00112	0.00112	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
gamma-BHC (Lindane)	wp	ND	0.00299	0.00299	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Heptachlor	wp	ND	0.00446	0.00446	0.00900	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Heptachlor epoxide	wp	ND	0.00134	0.00134	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
alpha-BHC	wp	ND	0.00142	0.00142	0.00900	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Toxaphene	wp	ND	0.0769	0.0769	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Dieldrin	wp	ND	0.000953	0.000953	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Chlordane	wp	ND	0.103	0.103	0.0400	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDT	wp	ND	0.00379	0.00379	0.0200	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDE	wp	ND	0.00109	0.00109	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endosulfan II	wp	ND	0.00122	0.00122	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDD	wp	ND	0.000814	0.000814	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Aldrin	wp	ND	0.00113	0.00113	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Mirex	wp	ND	0.02	0.000020	0.000020	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Dicofol	wp	ND	0.05	0.000050	0.000100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Methoxychlor	wp	ND	0.0039	0.0000039	0.000020	ug/L	1	"	2023-06-20	2023-06-20	"	SUB

Polychlorinated Biphenyls (PCBs) (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Tetrachloro-m-xylene		45 %		18-126			1	"	2023-06-20	2023-06-20	"	SUB
Surrogate: DCB Decachlorobiphenyl (Surr)		180 %		15-136			1	"	2023-06-20	2023-06-20	"	SI+,SUB
PCB-1016	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1260	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Polychlorinated biphenyls, Total	wp	ND	0.1	0.100	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01)

Polychlorinated Biphenyls (PCBs) (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
PCB-1248	wp	ND	0.0125	0.0125	0.100	ug/L	1	108599	2023-06-20	2023-06-20	EPA 608.3	SUB
PCB-1242	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1232	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1221	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1254	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Phenol-d5 (Surr)		13 %	8-424				10	108515	2023-06-19	2023-06-21	EPA 625.1	SUB
Surrogate: Nitrobenzene-d5 (Surr)		51 %	15-314				10	"	2023-06-19	2023-06-21	"	SUB
Surrogate: 2-Fluorophenol (Surr)		19 %	28-114				10	"	2023-06-19	2023-06-21	"	SI-,SUB
Surrogate: 2-Fluorobiphenyl (Surr)		66 %	29-112				10	"	2023-06-19	2023-06-21	"	SUB
Surrogate: 2,4,6-Tribromophenol (Surr)		83 %	31-132				10	"	2023-06-19	2023-06-21	"	SUB
Surrogate: p-Terphenyl-d14 (Surr)		81 %	20-141				10	"	2023-06-19	2023-06-21	"	SUB
Dibenz(a,h)anthracene	pxs	ND	2.46	0.246	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Pentachlorobenzene	pxs	ND	10.7	1.07	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4-Chloro-3-methylphenol	pxs	ND	15.7	1.57	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4-Nitrophenol	pxs	ND	49.1	4.91	7.20	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4-Nonylphenol	pxs	ND	100	10.0	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzo[a]anthracene	pxs	ND	1.73	0.173	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzo[a]pyrene	pxs	ND	3.64	0.364	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzo[b]fluoranthene	pxs	ND	20.4	2.04	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzo[g,h,i]perylene	pxs	ND	26.8	2.68	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzo[k]fluoranthene	pxs	ND	3.75	0.375	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Nitrobenzene	pxs	ND	16.6	1.66	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,4,6-Trichlorophenol	pxs	ND	14.2	1.42	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodiphenylamine	pxs	ND	18.1	1.81	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Total Cresols	pxs	ND	26.2	2.62	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Pyridine	pxs	ND	26.4	2.64	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	*1,SUB
Pyrene	pxs	ND	1.78	0.178	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Naphthalene	pxs	ND	5.42	0.542	2.50	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Phenanthrene	pxs	ND	14.2	1.42	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Diethyl phthalate	pxs	ND	15.9	1.59	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Isophorone	pxs	ND	16.4	1.64	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Indeno[1,2,3-cd]pyrene	pxs	ND	22.9	2.29	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Hexachloroethane	pxs	ND	5.26	0.526	4.80	ug/L	10	"	2023-06-19	2023-06-21	"	*,SUB
Di-n-octyl phthalate	pxs	ND	3.73	0.373	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Di-n-butyl phthalate	pxs	ND	2.52	0.252	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Dimethyl phthalate	pxs	ND	2.99	0.299	2.50	ug/L	10	"	2023-06-19	2023-06-21	"	SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Phenol	pxs	ND	4.23	0.423	4.50	ug/L	10	108515	2023-06-19	2023-06-21	EPA 625.1	SUB
2,4-Dinitrophenol	pxs	ND	4.99	0.499	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,4-Dimethylphenol	pxs	ND	6.49	0.649	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4,6-Dinitro-2-methylphenol	pxs	ND	14.4	1.44	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
3,3'-Dichlorobenzidine	pxs	ND	3.41	0.341	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2-Nitrophenol	pxs	ND	16.7	1.67	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2-Chlorophenol	pxs	ND	6.49	0.649	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2-Chloronaphthalene	pxs	ND	4.62	0.462	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Acenaphthylene	pxs	ND	14.1	1.41	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,4-Dinitrotoluene	pxs	ND	13.1	1.31	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Anthracene	pxs	ND	15	1.50	5.70	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,4-Dichlorophenol	pxs	ND	3.14	0.314	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4-Chlorophenyl phenyl ether	pxs	ND	12.8	1.28	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,4,5-Trichlorophenol	pxs	ND	20	2.00	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,2'-oxybis[1-chloropropane]	pxs	ND	17.9	1.79	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
1,2-Diphenylhydrazine	pxs	ND	14.9	1.49	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
1,2,4,5-Tetrachlorobenzene	pxs	ND	13.2	1.32	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
2,6-Dinitrotoluene	pxs	ND	16.1	1.61	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Chrysene	pxs	ND	2.22	0.222	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodi-n-butylamine	pxs	ND	14.9	1.49	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodimethylamine	pxs	ND	20.2	2.02	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodiethylamine	pxs	ND	17.5	1.75	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Hexachlorocyclopentadiene	pxs	ND	45.8	4.58	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Hexachlorobutadiene	pxs	ND	2.38	0.238	1.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Hexachlorobenzene	pxs	ND	3.07	0.307	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Acenaphthene	pxs	ND	13.9	1.39	5.70	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Fluoranthene	pxs	ND	15.9	1.59	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodi-n-propylamine	pxs	ND	28.8	2.88	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Butyl benzyl phthalate	pxs	ND	3.37	0.337	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Bis(2-ethylhexyl) phthalate	pxs	ND	2.77	0.277	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Bis(2-chloroethyl)ether	pxs	ND	21.6	2.16	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Bis(2-chloroethoxy)methane	pxs	ND	17.6	1.76	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Benzidine	pxs	ND	48	4.80	20.0	ug/L	10	"	2023-06-19	2023-06-21	"	*1,SUB
Azobenzene	pxs	ND	15	1.50	10.0	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Fluorene	pxs	ND	16.3	1.63	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
4-Bromophenyl phenyl ether	pxs	ND	2.56	0.256	5.00	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
Pentachlorophenol	pxs	ND	2.34	0.000234	0.0100	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
1,2,4-Trichlorobenzene	pxs	ND	16.1	0.00161	0.00500	ug/L	10	"	2023-06-19	2023-06-21	"	SUB
3 & 4 Methylphenol	pxs	ND	26.2	0.00262	0.0100	ug/L	10	"	2023-06-19	2023-06-21	"	SUB

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2-Methylphenol	pxs	ND	16.2	0.00162	0.0100	ug/L	10	108515	2023-06-19	2023-06-21	EPA 625.1	SUB

Semivolatile Organic Compounds (GC/MS) TICs

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,3,7,8-TCDD TIC 01	pxs	ND	1000			ug/L	10	"	2023-06-19	2023-06-21	625.1 TICs	SUB

Pesticides by 614

Eurofins Stafford

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Malathion	blf	ND	0.0508	0.0466	0.050	ug/L	1.02	1069058	2023-06-20	2023-06-20	EPA 614	SUB
Parathion, ethyl	blf	ND	0.0508	0.0292	0.050	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB
Parathion, methyl	blf	ND	0.0407	0.0395	0.040	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB
Diazinon	blf	ND	0.0508	0.0432	0.050	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB
Guthion	blf	ND	0.0508	0.0461	0.050	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB
Demeton	blf	ND	0.0508	0.0407	0.050	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB
Chlorpyrifos	blf	ND	0.0407	0.0394	0.040	ug/L	1.02	"	2023-06-20	2023-06-20	"	SUB

Influent TC (2324004-01RE1)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Antimony	bgk	ND	2.50	1.25	2.50	ug/L	1	2317415	2023-06-26	2023-06-27	EPA 200.8	

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>p</i> -Terphenyl-d14 (Surr)		68 %		20-141			10	109227	2023-06-23	2023-06-23	EPA 625.1	SUB
Surrogate: 2,4,6-Tribromophenol (Surr)		71 %		31-132			10	"	2023-06-23	2023-06-23	"	SUB
Surrogate: 2-Fluorobiphenyl (Surr)		46 %		29-112			10	"	2023-06-23	2023-06-23	"	SUB
Surrogate: 2-Fluorophenol (Surr)		15 %		28-114			10	"	2023-06-23	2023-06-23	"	SI-,SUB
Surrogate: Nitrobenzene-d5 (Surr)		39 %		15-314			10	"	2023-06-23	2023-06-23	"	SUB
Surrogate: Phenol-d5 (Surr)		11 %		8-424			10	"	2023-06-23	2023-06-23	"	SUB
Butyl benzyl phthalate	em	ND	3.37	0.337	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Chrysene	em	ND	2.22	0.222	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Dibenz(a,h)anthracene	em	ND	2.46	0.246	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Hexachlorobutadiene	em	ND	2.38	0.238	1.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Diethyl phthalate	em	ND	15.9	1.59	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01RE1)

Semivolatle Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Phenanthrene	em	ND	14.2	1.42	10.0	ug/L	10	109227	2023-06-23	2023-06-23	EPA 625.1	H,SUB
Hexachlorobenzene	em	ND	3.07	0.307	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-ethylhexyl) phthalate	em	ND	2.77	0.277	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Hexachlorocyclopentadiene	em	ND	45.8	4.58	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Hexachloroethane	em	ND	5.26	0.526	4.80	ug/L	10	"	2023-06-23	2023-06-23	"	H, *,SUB
Indeno[1,2,3-cd]pyrene	em	ND	22.9	2.29	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodi-n-butylamine	em	ND	14.9	1.49	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodi-n-propylamine	em	ND	28.8	2.88	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[a]pyrene	em	ND	3.64	0.364	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Pentachlorobenzene	em	ND	10.7	1.07	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4-Chlorophenyl phenyl ether	em	ND	12.8	1.28	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Total Cresols	em	ND	26.2	2.62	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodiphenylamine	em	ND	18.1	1.81	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,6-Dinitrotoluene	em	ND	16.1	1.61	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,2'-oxybis[1-chloropropane]	em	ND	17.9	1.79	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H, *,SUB
2,4,6-Trichlorophenol	em	ND	14.2	1.42	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dimethylphenol	em	ND	6.49	0.649	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2-Nitrophenol	em	ND	16.7	1.67	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
3,3'-Dichlorobenzidine	em	ND	3.41	0.341	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4,6-Dinitro-2-methylphenol	em	ND	14.4	1.44	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4-Bromophenyl phenyl ether	em	ND	2.56	0.256	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4-Chloro-3-methylphenol	em	ND	15.7	1.57	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
1,2,4,5-Tetrachlorobenzene	em	ND	13.2	1.32	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
1,2-Diphenylhydrazine	em	ND	14.9	1.49	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4-Nonylphenol	em	ND	100	10.0	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dinitrotoluene	em	ND	13.1	1.31	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[a]anthracene	em	ND	1.73	0.173	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2-Chloronaphthalene	em	ND	4.62	0.462	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H, *,SUB
2-Chlorophenol	em	ND	6.49	0.649	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dichlorophenol	em	ND	3.14	0.314	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
4-Nitrophenol	em	ND	49.1	4.91	7.20	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[b]fluoranthene	em	ND	20.4	2.04	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Acenaphthene	em	ND	13.9	1.39	5.70	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Acenaphthylene	em	ND	14.1	1.41	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Anthracene	em	ND	15	1.50	5.70	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Azobenzene	em	ND	15	1.50	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzdine	em	ND	48	4.80	20.0	ug/L	10	"	2023-06-23	2023-06-23	"	H, *, *1,SUB
2,4-Dinitrophenol	em	ND	4.99	0.499	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Pyridine	em	ND	26.4	2.64	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB

North Texas Municipal Water District

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Influent TC (2324004-01RE1)

Semivolatile Organic Compounds (GC/MS)
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Di-n-octyl phthalate	em	ND	3.73	0.373	5.00	ug/L	10	109227	2023-06-23	2023-06-23	EPA 625.1	H,SUB
Di-n-butyl phthalate	em	ND	2.52	0.252	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Dimethyl phthalate	em	ND	2.99	0.299	2.50	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-chloroethyl)ether	em	ND	21.6	2.16	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-chloroethoxy)methane	em	ND	17.6	1.76	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Fluorene	em	ND	16.3	1.63	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H, *,SUB
N-Nitrosodimethylamine	em	ND	20.2	2.02	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Isophorone	em	ND	16.4	1.64	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Fluoranthene	em	ND	15.9	1.59	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Pyrene	em	ND	1.78	0.178	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Phenol	em	ND	4.23	0.423	4.50	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Nitrobenzene	em	ND	16.6	1.66	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodiethylamine	em	ND	17.5	1.75	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[g,h,i]perylene	em	ND	26.8	2.68	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2,4,5-Trichlorophenol	em	ND	20	2.00	10.0	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[k]fluoranthene	em	ND	3.75	0.375	5.00	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Naphthalene	em	ND	5.42	0.542	2.50	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
Pentachlorophenol	em	ND	2.34	0.000234	0.0100	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
3 & 4 Methylphenol	em	ND	26.2	0.00262	0.0100	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
2-Methylphenol	em	ND	16.2	0.00162	0.0100	ug/L	10	"	2023-06-23	2023-06-23	"	H,SUB
1,2,4-Trichlorobenzene	em	ND	16.1	0.00161	0.00500	ug/L	10	"	2023-06-23	2023-06-23	"	H, *,SUB

Semivolatile Organic Compounds (GC/MS) TICs
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,3,7,8-TCDD TIC 01	em	ND	1000			ug/L	10	"	2023-06-23	2023-06-23	625.1 TICs	H,SUB

Influent Equipment Blank (2324004-02)

Total Mercury by EPA 245.7
North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Mercury	ran	ND	0.00500	0.00180	0.00500	ug/L	1	2317814	2023-06-29	2023-06-29	EPA 245.7	

Influent G (2324004-03)

Chromium, Hexavalent
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
North Texas Municipal Water District												

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Influent G (2324004-03)

Chromium, Hexavalent
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr (VI)	cgg	30.4	2.8	2.80	10.0	ug/L	1	13168	2023-06-15	2023-06-15	7196A	SUB

Chromium, Trivalent
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr (III)	sc	ND	2			ug/L	1	109063	2023-06-22	2023-06-22	SM 3500 CR B	SUB

Cyanide, Amenable
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Amenable	aa	ND	2.33			ug/L	1	108636	2023-06-20	2023-06-20	SM 4500 CN G	SUB

Cyanide, Non-amenable
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Non-amenable	cl	5.26	2.33	2.33	5.00	ug/L	1	109534	2023-06-26	2023-06-26	4500 CN G NonAm	SUB

Cyanide, Total
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Total	cl	2.55	2	2.00	5.00	ug/L	1	"	2023-06-26	2023-06-26	335.4	Ja,SUB

Metals (ICP/MS) Total Recoverable
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr	dp	ND	0.325	0.000325	0.00300	ug/L	1	109547	2023-06-26	2023-06-27	200.8	SUB

Phenolics, Total Recoverable
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Phenols, Total	adl	38	5.8	5.80	10.0	ug/L	1	109019	2023-06-21	2023-06-21	420.4	SUB

Volatile Organic Compounds (GC/MS)
Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 4-Bromofluorobenzene (Surr)		104 %		76-119			1	13152	2023-06-15	2023-06-15	EPA 624.1	SUB
Surrogate: Dibromofluoromethane (Surr)		98 %		61-132			1	"	2023-06-15	2023-06-15	"	SUB
Surrogate: Toluene-d8 (Surr)		102 %		74-130			1	"	2023-06-15	2023-06-15	"	SUB
Surrogate: 1,2-Dichloroethane-d4 (Surr)		106 %		76-118			1	"	2023-06-15	2023-06-15	"	SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Influent G (2324004-03)

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Trichloroethene	mc	ND	1.69			ug/L	1	13152	2023-06-15	2023-06-15	EPA 624.1	SUB
1,2-Dichloroethane	mc	ND	1.53			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Xylenes, Total	mc	ND	1.13			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,3-Dichloropropene, Total	mc	ND	1.95			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Vinyl chloride	mc	ND	0.592			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Vinyl acetate	mc	ND	1.69			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
trans-1,2-Dichloroethene	mc	ND	0.903			ug/L	1	"	2023-06-15	2023-06-15	"	F1,SUB
m,p-Xylenes	mc	ND	1.13			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
o-Xylene	mc	ND	0.488			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Ethylbenzene	mc	ND	0.878			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Methylene Chloride	mc	ND	0.829			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,3-Dichlorobenzene	mc	ND	1.08			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Tetrachloroethene	mc	ND	0.9			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
MTBE	mc	ND	2.68			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Naphthalene	mc	ND	0.927			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,1-Trichloroethane	mc	ND	1.45			ug/L	1	"	2023-06-15	2023-06-15	"	F1,SUB
Benzene	mc	ND	0.496			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chlorobenzene	mc	ND	0.945			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chloroethane	mc	ND	1.45			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromomethane	mc	ND	1.88			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chloroform	mc	ND	1.21			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chloromethane	mc	ND	0.941			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
cis-1,2-Dichloroethene	mc	ND	0.796			ug/L	1	"	2023-06-15	2023-06-15	"	F1,SUB
cis-1,3-Dichloropropene	mc	ND	0.885			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dichloropropane	mc	ND	1.55			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromoform	mc	ND	1.33			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromodichloromethane	mc	1.34	0.696			ug/L	1	"	2023-06-15	2023-06-15	"	Ja,SUB
Acrylonitrile	mc	ND	7.8			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Acrolein	mc	ND	23.1			ug/L	1	"	2023-06-15	2023-06-15	"	F1, F2,SUB
Acetone	mc	ND	21.3			ug/L	1	"	2023-06-15	2023-06-15	"	F1, F2,SUB
1,2-Dichlorobenzene	mc	ND	0.603			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
2-Chloroethyl vinyl ether	mc	ND	1.2			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
2-Butanone	mc	ND	4.53			ug/L	1	"	2023-06-15	2023-06-15	"	F1,SUB
1,4-Dichlorobenzene	mc	ND	0.637			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
trans-1,3-Dichloropropene	mc	ND	1.95			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Dibromochloromethane	mc	ND	1.75			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,2-Trichloroethane	mc	ND	0.747			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Carbon tetrachloride	mc	ND	1.26			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Trichlorofluoromethane	mc	ND	1.24			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Toluene	mc	16.2	1.61			ug/L	1	"	2023-06-15	2023-06-15	"	SUB

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Influent G (2324004-03)

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloroethene	mc	ND	0.575			ug/L	1	13152	2023-06-15	2023-06-15	EPA 624.1	SUB
1,1-Dichloroethane	mc	ND	1.03			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,2,2-Tetrachloroethane	mc	ND	1.71			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2,4-Trichlorobenzene	mc	ND	0.593			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dibromoethane	mc	ND	0.631			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Trihalomethanes, Total	mc	ND	1.75			ug/L	1	"	2023-06-15	2023-06-15	"	SUB

Effluent TC (2324004-04)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Silver	lmg	ND	0.500	0.250	0.500	ug/L	1	2317131	2023-06-21	2023-06-23	EPA 200.8	
Aluminum	lmg	9.05	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	
Arsenic	lmg	0.900	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Barium	lmg	39.5	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Beryllium	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Cadmium	lmg	ND	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Chromium	lmg	ND	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	
Copper	lmg	13.0	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Nickel	lmg	6.29	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Lead	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Selenium	lmg	1.13	1.00	0.500	1.00	ug/L	1	"	2023-06-21	2023-06-23	"	
Thallium	lmg	ND	0.500	0.250	0.500	ug/L	1	"	2023-06-21	2023-06-23	"	
Zinc	lmg	27.4	2.50	1.25	2.50	ug/L	1	"	2023-06-21	2023-06-23	"	

Total Mercury by EPA 245.7

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Mercury	ran	ND	0.00500	0.00180	0.00500	ug/L	1	2317814	2023-06-29	2023-06-29	EPA 245.7	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Fluoride	mgc	0.581	0.050	0.025	0.050	mg/L	1	2316634	2023-06-15	2023-06-16	EPA 300.0	

Carbamate and Urea Pesticides (HPLC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Carbaryl	aa	ND	0.185	1.85	5.00	ug/L	1	109837	2023-06-28	2023-07-07	632	H,SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04)

Carbamate and Urea Pesticides (HPLC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Diuron	aa	0.0634	0.00514	0.0514	0.0900	ug/L	1	109837	2023-06-28	2023-07-07	632	H,SUB

Herbicides (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2,4-Dichlorophenylacetic acid		147 %		45-150			1	108342	2023-06-18	2023-06-20	615	SUB
2,4-D	wp	ND	0.0547	0.0000540	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Dicamba	wp	ND	0.0429	0.0000430	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Dalapon	wp	ND	0.0483	0.0000480	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Silvex (2,4,5-TP)	wp	ND	0.0428	0.0000430	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Pentachlorophenol	wp	ND	0.0449	0.0000450	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Hexachlorophene	wp	ND	0.819	0.000823	0.00509	ug/L	1	"	2023-06-18	2023-06-20	"	SUB
Dinoseb	wp	ND	0.0348	0.0000340	0.000204	ug/L	1	"	2023-06-18	2023-06-20	"	*,SUB

Organochlorine Pesticides in Water

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: DCB Decachlorobiphenyl (Surr)		111 %		15-136			1	108599	2023-06-20	2023-06-20	EPA 608.3	SUB
Surrogate: Tetrachloro-m-xylene		76 %		18-126			1	"	2023-06-20	2023-06-20	"	SUB
Endosulfan II	wp	ND	0.00122	0.00122	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endosulfan I	wp	ND	0.00107	0.00107	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endosulfan sulfate	wp	ND	0.00112	0.00112	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endrin aldehyde	wp	ND	0.00118	0.00118	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDE	wp	ND	0.00109	0.00109	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDD	wp	ND	0.0008140	0.000814	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Aldrin	wp	ND	0.00113	0.00113	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
alpha-BHC	wp	ND	0.00142	0.00142	0.00900	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
delta-BHC	wp	ND	0.00245	0.00245	0.250	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Endrin	wp	ND	0.00156	0.00156	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Dieldrin	wp	ND	0.0009530	0.000953	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
gamma-BHC (Lindane)	wp	ND	0.00299	0.00299	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Heptachlor	wp	ND	0.00446	0.00446	0.00900	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Toxaphene	wp	ND	0.0769	0.0769	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Heptachlor epoxide	wp	ND	0.00134	0.00134	0.0100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Chlordane	wp	ND	0.103	0.103	0.0400	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
4,4'-DDT	wp	ND	0.00379	0.00379	0.0200	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
beta-BHC	wp	ND	0.00389	0.00389	0.0180	ug/L	1	"	2023-06-20	2023-06-20	"	*,SUB
Methoxychlor	wp	ND	0.0039	0.00000390	0.0000200	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Dicofol	wp	ND	0.05	0.0000500	0.000100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Mirex	wp	ND	0.02	0.0000200	0.0000200	ug/L	1	"	2023-06-20	2023-06-20	"	SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04)

Polychlorinated Biphenyls (PCBs) (GC)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: DCB Decachlorobiphenyl (Surr)		163 %		15-136			1	108599	2023-06-20	2023-06-20	EPA 608.3	SI+, SUB
Surrogate: Tetrachloro-m-xylene		64 %		18-126			1	"	2023-06-20	2023-06-20	"	SUB
PCB-1260	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1016	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
Polychlorinated biphenyls, Total	wp	ND	0.1	0.100	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1221	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1254	wp	ND	0.0078	0.00780	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1248	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1232	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB
PCB-1242	wp	ND	0.0125	0.0125	0.100	ug/L	1	"	2023-06-20	2023-06-20	"	SUB

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Fluorobiphenyl (Surr)		52 %		29-112			1	108515	2023-06-19	2023-06-21	EPA 625.1	SUB
Surrogate: Nitrobenzene-d5 (Surr)		52 %		15-314			1	"	2023-06-19	2023-06-21	"	SUB
Surrogate: 2,4,6-Tribromophenol (Surr)		71 %		31-132			1	"	2023-06-19	2023-06-21	"	SUB
Surrogate: 2-Fluorophenol (Surr)		14 %		28-114			1	"	2023-06-19	2023-06-21	"	SI-, SUB
Surrogate: Phenol-d5 (Surr)		9 %		8-424			1	"	2023-06-19	2023-06-21	"	SUB
Surrogate: p-Terphenyl-d14 (Surr)		81 %		20-141			1	"	2023-06-19	2023-06-21	"	SUB
Benzo[g,h,i]perylene	pxs	ND	2.68	2.68	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Total Cresols	pxs	ND	2.62	2.62	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
1,2-Diphenylhydrazine	pxs	ND	1.49	1.49	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,2'-oxybis[1-chloropropane]	pxs	ND	1.79	1.79	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,4,5-Trichlorophenol	pxs	ND	2	2.00	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,4,6-Trichlorophenol	pxs	ND	1.42	1.42	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Benzo[b]fluoranthene	pxs	ND	2.04	2.04	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2-Chlorophenol	pxs	ND	0.649	0.649	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
3,3'-Dichlorobenzidine	pxs	ND	0.341	0.341	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Anthracene	pxs	ND	1.5	1.50	5.70	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Pentachlorobenzene	pxs	ND	1.07	1.07	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Phenol	pxs	ND	0.423	0.423	4.50	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
4-Bromophenyl phenyl ether	pxs	ND	0.256	0.256	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
4,6-Dinitro-2-methylphenol	pxs	ND	1.44	1.44	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2-Nitrophenol	pxs	ND	1.67	1.67	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,4-Dichlorophenol	pxs	ND	0.314	0.314	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Indeno[1,2,3-cd]pyrene	pxs	ND	2.29	2.29	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Isophorone	pxs	ND	1.64	1.64	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Di-n-octyl phthalate	pxs	ND	0.373	0.373	5.00	ug/L	1	108515	2023-06-19	2023-06-21	EPA 625.1	SUB
Di-n-butyl phthalate	pxs	ND	0.252	0.252	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Dimethyl phthalate	pxs	ND	0.299	0.299	2.50	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Diethyl phthalate	pxs	ND	1.59	1.59	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Pyridine	pxs	ND	2.64	2.64	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	*1,SUB
Benzo[k]fluoranthene	pxs	ND	0.375	0.375	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
1,2,4,5-Tetrachlorobenzene	pxs	ND	1.32	1.32	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Naphthalene	pxs	ND	0.542	0.542	2.50	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Nitrobenzene	pxs	ND	1.66	1.66	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodiethylamine	pxs	ND	1.75	1.75	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Phenanthrene	pxs	ND	1.42	1.42	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Azobenzene	pxs	ND	1.5	1.50	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Pyrene	pxs	ND	0.178	0.178	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Bis(2-chloroethoxy)methane	pxs	ND	1.76	1.76	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodimethylamine	pxs	ND	2.02	2.02	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Fluorene	pxs	ND	1.63	1.63	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Benzo[a]pyrene	pxs	ND	0.364	0.364	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,4-Dimethylphenol	pxs	ND	0.649	0.649	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Hexachlorobenzene	pxs	ND	0.307	0.307	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Acenaphthylene	pxs	ND	1.41	1.41	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Dibenz(a,h)anthracene	pxs	ND	0.246	0.246	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Hexachloroethane	pxs	ND	0.526	0.526	4.80	ug/L	1	"	2023-06-19	2023-06-21	"	*,SUB
Acenaphthene	pxs	ND	1.39	1.39	5.70	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodi-n-butylamine	pxs	ND	1.49	1.49	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodi-n-propylamine	pxs	ND	2.88	2.88	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
N-Nitrosodiphenylamine	pxs	ND	1.81	1.81	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
4-Nonylphenol	pxs	ND	10	10.0	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Fluoranthene	pxs	ND	1.59	1.59	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
4-Nitrophenol	pxs	ND	4.91	4.91	7.20	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Hexachlorocyclopentadiene	pxs	ND	4.58	4.58	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
4-Chloro-3-methylphenol	pxs	ND	1.57	1.57	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Butyl benzyl phthalate	pxs	ND	0.337	0.337	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Bis(2-ethylhexyl) phthalate	pxs	ND	0.277	0.277	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Bis(2-chloroethyl)ether	pxs	ND	2.16	2.16	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Benzo[a]anthracene	pxs	ND	0.173	0.173	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Benzidine	pxs	ND	4.8	4.80	20.0	ug/L	1	"	2023-06-19	2023-06-21	"	*1,SUB
4-Chlorophenyl phenyl ether	pxs	ND	1.28	1.28	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,4-Dinitrotoluene	pxs	ND	1.31	1.31	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2,6-Dinitrotoluene	pxs	ND	1.61	1.61	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2-Chloronaphthalene	pxs	ND	0.462	0.462	5.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chrysene	pxs	ND	0.222	0.222	5.00	ug/L	1	108515	2023-06-19	2023-06-21	EPA 625.1	SUB
2,4-Dinitrophenol	pxs	ND	0.499	0.499	10.0	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Hexachlorobutadiene	pxs	ND	0.238	0.238	1.00	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
2-Methylphenol	pxs	ND	1.62	0.00162	0.0100	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
1,2,4-Trichlorobenzene	pxs	ND	1.61	0.00161	0.00500	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
Pentachlorophenol	pxs	ND	0.234	0.000234	0.0100	ug/L	1	"	2023-06-19	2023-06-21	"	SUB
3 & 4 Methylphenol	pxs	ND	2.62	0.00262	0.0100	ug/L	1	"	2023-06-19	2023-06-21	"	SUB

Semivolatile Organic Compounds (GC/MS) TICs

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,3,7,8-TCDD TIC 01	pxs	ND	100			ug/L	1	"	2023-06-19	2023-06-21	625.1 TICs	SUB

Pesticides by 614

Eurofins Stafford

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Parathion, methyl	blf	ND	0.042	0.0395	0.040	ug/L	1.05	1069058	2023-06-20	2023-06-20	EPA 614	SUB
Guthion	blf	ND	0.0525	0.0461	0.050	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB
Chlorpyrifos	blf	ND	0.042	0.0394	0.040	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB
Demeton	blf	ND	0.0525	0.0407	0.050	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB
Diazinon	blf	ND	0.0525	0.0432	0.050	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB
Parathion, ethyl	blf	ND	0.0525	0.0292	0.050	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB
Malathion	blf	ND	0.0525	0.0466	0.050	ug/L	1.05	"	2023-06-20	2023-06-20	"	SUB

Effluent TC (2324004-04RE1)

Total Metals by EPA 200.8

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Antimony	bgk	ND	2.50	1.25	2.50	ug/L	1	2317415	2023-06-26	2023-06-27	EPA 200.8	

Anions by EPA 300 Series

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Nitrate as N	mgc	23.2	0.500	0.025	0.050	mg/L	10	2316634	230615 1551	230616 1649	EPA 300.0	

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
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North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04RE1)

Semivolatle Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>p</i> -Terphenyl-d14 (Surr)		72 %	20-141				1	109227	2023-06-23	2023-06-23	EPA 625.1	SUB
Surrogate: Phenol-d5 (Surr)		10 %	8-424				1	"	2023-06-23	2023-06-23	"	SUB
Surrogate: 2-Fluorophenol (Surr)		16 %	28-114				1	"	2023-06-23	2023-06-23	"	SI-,SUB
Surrogate: 2-Fluorobiphenyl (Surr)		37 %	29-112				1	"	2023-06-23	2023-06-23	"	SUB
Surrogate: 2,4,6-Tribromophenol (Surr)		56 %	31-132				1	"	2023-06-23	2023-06-23	"	SUB
Surrogate: Nitrobenzene-d5 (Surr)		40 %	15-314				1	"	2023-06-23	2023-06-23	"	SUB
Hexachloroethane	em	ND	0.526	0.526	4.80	ug/L	1	"	2023-06-23	2023-06-23	"	H, *,SUB
N-Nitrosodimethylamine	em	ND	2.02	2.02	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Total Cresols	em	ND	2.62	2.62	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Phenol	em	ND	0.423	0.423	4.50	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Phenanthrene	em	ND	1.42	1.42	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Pentachlorobenzene	em	ND	1.07	1.07	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodiphenylamine	em	ND	1.81	1.81	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodi-n-propylamine	em	ND	2.88	2.88	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Indeno[1,2,3-cd]pyrene	em	ND	2.29	2.29	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[b]fluoranthene	em	ND	2.04	2.04	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Hexachlorocyclopentadiene	em	ND	4.58	4.58	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Hexachlorobutadiene	em	ND	0.238	0.238	1.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Dimethyl phthalate	em	ND	0.299	0.299	2.50	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Diethyl phthalate	em	ND	1.59	1.59	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Dibenz(a,h)anthracene	em	ND	0.246	0.246	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Chrysene	em	ND	0.222	0.222	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Butyl benzyl phthalate	em	ND	0.337	0.337	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Isophorone	em	ND	1.64	1.64	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodi-n-butylamine	em	ND	1.49	1.49	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[a]anthracene	em	ND	0.173	0.173	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-ethylhexyl) phthalate	em	ND	0.277	0.277	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Di-n-butyl phthalate	em	ND	0.252	0.252	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Di-n-octyl phthalate	em	ND	0.373	0.373	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Fluoranthene	em	ND	1.59	1.59	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Fluorene	em	ND	1.63	1.63	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H, *,SUB
Hexachlorobenzene	em	ND	0.307	0.307	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Naphthalene	em	ND	0.542	0.542	2.50	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-chloroethoxy)methane	em	ND	1.76	1.76	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
N-Nitrosodiethylamine	em	ND	1.75	1.75	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[k]fluoranthene	em	ND	0.375	0.375	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Pyridine	em	ND	2.64	2.64	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Pyrene	em	ND	0.178	0.178	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
3,3'-Dichlorobenzidine	em	ND	0.341	0.341	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
4-Bromophenyl phenyl ether	em	ND	0.256	0.256	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB

ANALYTICAL REPORT FOR SAMPLES

Effluent TC (2324004-04RE1)

Semivolatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
4-Chloro-3-methylphenol	em	ND	1.57	1.57	5.00	ug/L	1	109227	2023-06-23	2023-06-23	EPA 625.1	H,SUB
4-Chlorophenyl phenyl ether	em	ND	1.28	1.28	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Azobenzene	em	ND	1.5	1.50	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzidine	em	ND	4.8	4.80	20.0	ug/L	1	"	2023-06-23	2023-06-23	"	H, *- *1,SUB
Nitrobenzene	em	ND	1.66	1.66	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2-Chloronaphthalene	em	ND	0.462	0.462	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H, *-SUB
1,2,4,5-Tetrachlorobenzene	em	ND	1.32	1.32	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
1,2-Diphenylhydrazine	em	ND	1.49	1.49	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,2'-oxybis[1-chloropropane]	em	ND	1.79	1.79	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H, *-SUB
2,4,5-Trichlorophenol	em	ND	2	2.00	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,4,6-Trichlorophenol	em	ND	1.42	1.42	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dichlorophenol	em	ND	0.314	0.314	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dimethylphenol	em	ND	0.649	0.649	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dinitrophenol	em	ND	0.499	0.499	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Bis(2-chloroethyl)ether	em	ND	2.16	2.16	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,6-Dinitrotoluene	em	ND	1.61	1.61	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
4,6-Dinitro-2-methylphenol	em	ND	1.44	1.44	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2-Chlorophenol	em	ND	0.649	0.649	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2-Nitrophenol	em	ND	1.67	1.67	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
4-Nitrophenol	em	ND	4.91	4.91	7.20	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
4-Nonylphenol	em	ND	10	10.0	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Acenaphthene	em	ND	1.39	1.39	5.70	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Acenaphthylene	em	ND	1.41	1.41	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Anthracene	em	ND	1.5	1.50	5.70	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[g,h,i]perylene	em	ND	2.68	2.68	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
2,4-Dinitrotoluene	em	ND	1.31	1.31	10.0	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Benzo[a]pyrene	em	ND	0.364	0.364	5.00	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
1,2,4-Trichlorobenzene	em	ND	1.61	0.00161	0.00500	ug/L	1	"	2023-06-23	2023-06-23	"	H, *-SUB
2-Methylphenol	em	ND	1.62	0.00162	0.0100	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
3 & 4 Methylphenol	em	ND	2.62	0.00262	0.0100	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB
Pentachlorophenol	em	ND	0.234	0.000234	0.0100	ug/L	1	"	2023-06-23	2023-06-23	"	H,SUB

Semivolatile Organic Compounds (GC/MS) TICs

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
2,3,7,8-TCDD TIC 01	em	ND	100			ug/L	1	"	2023-06-23	2023-06-23	625.1 TICs	H,SUB

Effluent Equipment Blank (2324004-05)

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Effluent Equipment Blank (2324004-05)

Total Mercury by EPA 245.7

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Mercury	ran	ND	0.00500	0.00180	0.00500	ug/L	1	2317814	2023-06-29	2023-06-29	EPA 245.7	

Effluent G (2324004-06)

Chromium, Hexavalent

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr (VI)	cgg	ND	2.8	2.80	10.0	ug/L	1	13168	2023-06-15	2023-06-15	7196A	SUB

Chromium, Trivalent

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr (III)	sc	ND	2			ug/L	1	109063	2023-06-22	2023-06-22	SM 3500 CR B	SUB

Cyanide, Amenable

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Amenable	aa	ND	2.33			ug/L	1	108636	2023-06-20	2023-06-20	SM 4500 CN G	SUB

Cyanide, Non-amenable

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Non-amenable	cl	ND	2.33	2.33	5.00	ug/L	1	109534	2023-06-26	2023-06-26	4500 CN G NonAm	SUB

Cyanide, Total

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cyanide, Total	cl	ND	2	2.00	5.00	ug/L	1	"	2023-06-26	2023-06-26	335.4	SUB

Metals (ICP/MS) Total Recoverable

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Cr	dp	0.916	0.325	0.000325	0.00300	ug/L	1	109547	2023-06-26	2023-06-27	200.8	Ja, B,SUB

Phenolics, Total Recoverable

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Phenols, Total	adl	ND	5.8	5.80	10.0	ug/L	1	109019	2023-06-21	2023-06-21	420.4	SUB

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Effluent G (2324004-06)

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4 (Surr)		107 %	76-118				1	13152	2023-06-15	2023-06-15	EPA 624.1	SUB
Surrogate: Toluene-d8 (Surr)		103 %	74-130				1	"	2023-06-15	2023-06-15	"	SUB
Surrogate: Dibromofluoromethane (Surr)		101 %	61-132				1	"	2023-06-15	2023-06-15	"	SUB
Surrogate: 4-Bromofluorobenzene (Surr)		105 %	76-119				1	"	2023-06-15	2023-06-15	"	SUB
Acetone	mc	ND	21.3			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
2-Chloroethyl vinyl ether	mc	ND	1.2			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
2-Butanone	mc	ND	4.53			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,4-Dichlorobenzene	mc	ND	0.637			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,3-Dichloropropene, Total	mc	ND	1.95			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Vinyl chloride	mc	ND	0.592			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,2,2-Tetrachloroethane	mc	ND	1.71			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dichloroethane	mc	ND	1.53			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2,4-Trichlorobenzene	mc	ND	0.593			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,1-Trichloroethane	mc	ND	1.45			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dichlorobenzene	mc	ND	0.603			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Acrolein	mc	ND	23.1			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dibromoethane	mc	ND	0.631			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromomethane	mc	ND	1.88			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1,2-Trichloroethane	mc	ND	0.747			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1-Dichloroethane	mc	ND	1.03			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,1-Dichloroethene	mc	ND	0.575			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,2-Dichloropropane	mc	ND	1.55			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Dibromochloromethane	mc	ND	1.75			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Toluene	mc	ND	1.61			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Tetrachloroethene	mc	ND	0.9			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
o-Xylene	mc	ND	0.488			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Naphthalene	mc	ND	0.927			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
MTBE	mc	ND	2.68			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
1,3-Dichlorobenzene	mc	ND	1.08			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Methylene Chloride	mc	ND	0.829			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
m,p-Xylenes	mc	ND	1.13			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
trans-1,3-Dichloropropene	mc	ND	1.95			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Trichloroethene	mc	ND	1.69			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Trichlorofluoromethane	mc	ND	1.24			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Vinyl acetate	mc	ND	1.69			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromodichloromethane	mc	ND	0.696			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Ethylbenzene	mc	ND	0.878			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Acrylonitrile	mc	ND	7.8			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
cis-1,3-Dichloropropene	mc	ND	0.885			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
cis-1,2-Dichloroethene	mc	ND	0.796			ug/L	1	"	2023-06-15	2023-06-15	"	SUB

North Texas Municipal Water District

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Effluent G (2324004-06)

Volatile Organic Compounds (GC/MS)

Eurofins Dallas

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Chloromethane	mc	ND	0.941			ug/L	1	13152	2023-06-15	2023-06-15	EPA 624.1	SUB
Chloroform	mc	ND	1.21			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chloroethane	mc	ND	1.45			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Chlorobenzene	mc	ND	0.945			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Carbon tetrachloride	mc	ND	1.26			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Bromoform	mc	ND	1.33			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
trans-1,2-Dichloroethene	mc	ND	0.903			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Xylenes, Total	mc	ND	1.13			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Benzene	mc	ND	0.496			ug/L	1	"	2023-06-15	2023-06-15	"	SUB
Trihalomethanes, Total	mc	ND	1.75			ug/L	1	"	2023-06-15	2023-06-15	"	SUB

Trip Blank (2324004-07)

Total Mercury by EPA 245.7

North Texas Municipal Water District

Analyte	Analyst	Result	SRL	MDL	MRL	Units	Prep Ratio	Batch	Prepared	Analyzed	Method	Notes
Mercury	ran	ND	0.00500	0.00180	0.00500	ug/L	1	2317814	2023-06-29	2023-06-29	EPA 245.7	

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2317131 - [200.8 Digestion] Digested down to 10mL at 95°C

Blank (2317131-BLK1)

Prepared: 2023-06-21 Analyzed: 2023-06-23

Aluminum	ND	2.50	ug/L		1.25						
Arsenic	ND	0.500	"		0.250						
Barium	ND	1.00	"		0.500						
Cadmium	ND	1.00	"		0.500						
Copper	ND	1.00	"		0.500						
Lead	ND	0.500	"		0.250						
Nickel	ND	1.00	"		0.500						
Selenium	ND	1.00	"		0.500						
Silver	ND	0.500	"		0.250						
Zinc	ND	2.50	"		1.25						
Beryllium	ND	0.500	"		0.250						
Thallium	ND	0.500	"		0.250						
Chromium	ND	2.50	"		1.25						

LCS (2317131-BS1)

Prepared: 2023-06-21 Analyzed: 2023-06-23

Aluminum	47.6	2.50	ug/L	50.0	1.25		95.2	85-115			
Arsenic	47.2	0.500	"	50.0	0.250		94.4	85-115			
Barium	46.7	1.00	"	50.0	0.500		93.4	85-115			
Cadmium	47.5	1.00	"	50.0	0.500		95.0	85-115			
Copper	48.5	1.00	"	50.0	0.500		97.0	85-115			
Lead	45.7	0.500	"	50.0	0.250		91.5	85-115			
Nickel	48.4	1.00	"	50.0	0.500		96.7	85-115			
Selenium	47.1	1.00	"	50.0	0.500		94.1	85-115		20	
Silver	47.8	0.500	"	50.0	0.250		95.5	85-115			
Zinc	48.1	2.50	"	50.0	1.25		96.2	85-115			
Beryllium	47.6	0.500	"	50.0	0.250		95.2	85-115			
Thallium	45.5	0.500	"	50.0	0.250		91.0	85-115			
Chromium	46.6	2.50	"	50.0	1.25		93.2	85-115			

LCS Dup (2317131-BSD1)

Prepared: 2023-06-21 Analyzed: 2023-06-23

Aluminum	46.9	2.50	ug/L	50.0	1.25		93.9	85-115	1.41	20	
Arsenic	46.7	0.500	"	50.0	0.250		93.4	85-115	1.03	20	
Barium	46.5	1.00	"	50.0	0.500		93.0	85-115	0.462	20	
Cadmium	46.6	1.00	"	50.0	0.500		93.2	85-115	1.91	20	
Copper	48.5	1.00	"	50.0	0.500		97.0	85-115	0.00561	20	
Lead	45.3	0.500	"	50.0	0.250		90.7	85-115	0.849	20	
Nickel	48.1	1.00	"	50.0	0.500		96.2	85-115	0.480	20	
Selenium	47.3	1.00	"	50.0	0.500		94.6	85-115	0.483	20	
Silver	47.4	0.500	"	50.0	0.250		94.9	85-115	0.685	20	
Zinc	48.3	2.50	"	50.0	1.25		96.6	85-115	0.443	20	
Beryllium	47.2	0.500	"	50.0	0.250		94.4	85-115	0.759	20	
Thallium	45.3	0.500	"	50.0	0.250		90.6	85-115	0.463	20	

North Texas Municipal Water District

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control
North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2317131 - [200.8 Digestion] Digested down to 10mL at 95°C

LCS Dup (2317131-BSD1)

Prepared: 2023-06-21 Analyzed: 2023-06-23

Chromium	46.3	2.50	ug/L	50.0	1.25		92.7	85-115	0.618	20	
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Matrix Spike (2317131-MS1)

Source: 2325068-01

Prepared: 2023-06-21 Analyzed: 2023-06-23

Arsenic	49.9	0.500	ug/L	50.0	0.250	3.33	93.1	70-130			
Barium	124	1.00	"	50.0	0.500	80.3	87.5	70-130			
Cadmium	45.7	1.00	"	50.0	0.500	ND	91.5	70-130			
Copper	120	1.00	"	50.0	0.500	75.6	89.2	70-130			
Lead	44.9	0.500	"	50.0	0.250	0.427	89.0	70-130			
Nickel	48.6	1.00	"	50.0	0.500	1.39	94.3	70-130			
Selenium	46.3	1.00	"	50.0	0.500	ND	92.6	70-130		20	
Silver	43.7	0.500	"	50.0	0.250	ND	87.4	70-130			
Zinc	48.5	2.50	"	50.0	1.25	2.54	91.8	70-130			
Beryllium	47.5	0.500	"	50.0	0.250	ND	95.0	70-130			
Thallium	44.5	0.500	"	50.0	0.250	ND	88.9	70-130			
Chromium	46.5	2.50	"	50.0	1.25	ND	93.1	70-130			

Matrix Spike (2317131-MS2)

Source: 2325068-02

Prepared: 2023-06-21 Analyzed: 2023-06-23

Aluminum	75.3	2.50	ug/L	50.0	1.25	30.0	90.7	70-130			
Arsenic	46.1	0.500	"	50.0	0.250	0.541	91.1	70-130			
Barium	99.4	1.00	"	50.0	0.500	55.2	88.3	70-130			
Cadmium	44.7	1.00	"	50.0	0.500	ND	89.4	70-130			
Copper	46.5	1.00	"	50.0	0.500	3.74	85.6	70-130			
Lead	43.7	0.500	"	50.0	0.250	ND	87.4	70-130			
Nickel	47.8	1.00	"	50.0	0.500	4.96	85.7	70-130			
Selenium	44.5	1.00	"	50.0	0.500	ND	88.9	70-130		20	
Zinc	44.3	2.50	"	50.0	1.25	1.35	85.9	70-130			
Beryllium	45.9	0.500	"	50.0	0.250	ND	91.8	70-130			
Thallium	43.5	0.500	"	50.0	0.250	ND	87.1	70-130			
Chromium	43.5	2.50	"	50.0	1.25	ND	87.1	70-130			

Matrix Spike Dup (2317131-MSD1)

Source: 2325068-01

Prepared: 2023-06-21 Analyzed: 2023-06-23

Arsenic	51.4	0.500	ug/L	50.0	0.250	3.33	96.2	70-130	3.03	20	
Barium	124	1.00	"	50.0	0.500	80.3	86.6	70-130	0.363	20	
Cadmium	47.9	1.00	"	50.0	0.500	ND	95.8	70-130	4.64	20	
Copper	121	1.00	"	50.0	0.500	75.6	91.7	70-130	1.00	20	
Lead	45.4	0.500	"	50.0	0.250	0.427	89.9	70-130	0.960	20	
Nickel	48.0	1.00	"	50.0	0.500	1.39	93.3	70-130	1.13	20	
Selenium	50.4	1.00	"	50.0	0.500	ND	101	70-130	8.48	20	
Silver	43.1	0.500	"	50.0	0.250	ND	86.1	70-130	1.43	20	
Zinc	53.1	2.50	"	50.0	1.25	2.54	101	70-130	9.07	20	
Beryllium	50.1	0.500	"	50.0	0.250	ND	100	70-130	5.35	20	
Thallium	44.9	0.500	"	50.0	0.250	ND	89.9	70-130	1.06	20	

North Texas Municipal Water District

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Total Metals by EPA 200.8 - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2317131 - [200.8 Digestion] Digested down to 10mL at 95°C

Matrix Spike Dup (2317131-MSD1)		Source: 2325068-01			Prepared: 2023-06-21 Analyzed: 2023-06-23						
Chromium	45.6	2.50	ug/L	50.0	1.25	ND	91.1	70-130	2.10	20	
Matrix Spike Dup (2317131-MSD2)		Source: 2325068-02			Prepared: 2023-06-21 Analyzed: 2023-06-23						
Aluminum	75.6	2.50	ug/L	50.0	1.25	30.0	91.3	70-130	0.444	20	
Arsenic	48.1	0.500	"	50.0	0.250	0.541	95.0	70-130	4.16	20	
Barium	101	1.00	"	50.0	0.500	55.2	91.6	70-130	1.66	20	
Cadmium	47.0	1.00	"	50.0	0.500	ND	94.0	70-130	5.03	20	
Copper	48.6	1.00	"	50.0	0.500	3.74	89.8	70-130	4.39	20	
Lead	44.7	0.500	"	50.0	0.250	ND	89.4	70-130	2.21	20	
Nickel	49.4	1.00	"	50.0	0.500	4.96	88.9	70-130	3.28	20	
Selenium	49.8	1.00	"	50.0	0.500	ND	99.7	70-130	11.4	20	
Zinc	48.5	2.50	"	50.0	1.25	1.35	94.2	70-130	8.94	20	
Beryllium	48.1	0.500	"	50.0	0.250	ND	96.2	70-130	4.67	20	
Thallium	44.0	0.500	"	50.0	0.250	ND	88.0	70-130	1.12	20	
Chromium	44.8	2.50	"	50.0	1.25	ND	89.6	70-130	2.93	20	

Batch 2317415 - [200.8 Digestion] Digested down to 10mL at 95°C

Blank (2317415-BLK1)		Prepared: 2023-06-26 Analyzed: 2023-06-27									
Antimony	ND	2.50	ug/L		1.25						
LCS (2317415-BS1)		Prepared: 2023-06-26 Analyzed: 2023-06-27									
Antimony	47.5	2.50	ug/L	50.0	1.25		95.0	85-115			
LCS Dup (2317415-BSD1)		Prepared: 2023-06-26 Analyzed: 2023-06-27									
Antimony	48.9	2.50	ug/L	50.0	1.25		97.8	85-115	2.90	20	
Matrix Spike (2317415-MS1)		Source: 2325191-02			Prepared: 2023-06-26 Analyzed: 2023-06-27						
Antimony	58.2	2.50	ug/L	50.0	1.25	2.02	112	70-130			
Matrix Spike (2317415-MS2)		Source: 2325184-01			Prepared: 2023-06-26 Analyzed: 2023-06-27						
Antimony	59.3	2.50	ug/L	50.0	1.25	ND	119	70-130			
Matrix Spike Dup (2317415-MSD1)		Source: 2325191-02			Prepared: 2023-06-26 Analyzed: 2023-06-27						
Antimony	58.1	2.50	ug/L	50.0	1.25	2.02	112	70-130	0.0938	20	
Matrix Spike Dup (2317415-MSD2)		Source: 2325184-01			Prepared: 2023-06-26 Analyzed: 2023-06-27						
Antimony	58.9	2.50	ug/L	50.0	1.25	ND	118	70-130	0.641	20	

Total Mercury by EPA 245.7 - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2317814 - [245.7 Digestion] 245.7 Digestion

North Texas Municipal Water District

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Total Mercury by EPA 245.7 - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2317814 - [245.7 Digestion] 245.7 Digestion

Blank (2317814-BLK1)				Prepared & Analyzed: 2023-06-29							
Mercury	ND	0.00500	ug/L		0.00180						
LCS (2317814-BS1)				Prepared & Analyzed: 2023-06-29							
Mercury	0.00971	0.00500	ug/L	0.0100	0.00180		97.1	78-108			
LCS Dup (2317814-BSD1)				Prepared & Analyzed: 2023-06-29							
Mercury	0.00829	0.00500	ug/L	0.0100	0.00180		82.9	78-108	15.8	16	
MRL Check (2317814-MRL1)				Prepared & Analyzed: 2023-06-29							
Mercury	0.00433	0.00500	ug/L	0.00500	0.00180		86.6	0-200			
Matrix Spike (2317814-MS1)				Source: 2324004-04		Prepared & Analyzed: 2023-06-29					
Mercury	0.00964	0.00500	ug/L	0.0100	0.00180	ND	96.4	63-111			
Matrix Spike Dup (2317814-MSD1)				Source: 2324004-04		Prepared & Analyzed: 2023-06-29					
Mercury	0.0101	0.00500	ug/L	0.0100	0.00180	ND	101	63-111	5.08	18	

Anions by EPA 300 Series - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2316634 - [300.0 Anions] 300.0 Anions

Blank (2316634-BLK1)				Prepared: 2023-06-15 Analyzed: 2023-06-16							
Nitrate as N	ND	0.050	mg/L		0.025						
Fluoride	ND	0.050	"		0.025						
LCS (2316634-BS1)				Prepared: 2023-06-15 Analyzed: 2023-06-16							
Nitrate as N	0.470	0.050	mg/L	0.500	0.025		94.0	90-110			
Fluoride	0.463	0.050	"	0.500	0.025		92.6	90-110			
LCS Dup (2316634-BSD1)				Prepared: 2023-06-15 Analyzed: 2023-06-16							
Nitrate as N	0.465	0.050	mg/L	0.500	0.025		93.0	90-110	1.07	10	
Fluoride	0.463	0.050	"	0.500	0.025		92.6	90-110	0.00	10	
LOQ Check Standard (2316634-MRL1)				Prepared: 2023-06-15 Analyzed: 2023-06-16							
Nitrate as N	0.026	0.050	mg/L	0.0200	0.025		130	70-130			
Fluoride	0.025	0.050	"	0.0200	0.025		125	70-130			
Matrix Spike (2316634-MS1)				Source: 2323226-08		Prepared: 2023-06-15 Analyzed: 2023-06-16					
Nitrate as N	0.729	0.050	mg/L	0.500	0.025	0.137	118	80-120			
Fluoride	1.40	0.050	"	0.500	0.025	0.897	100	80-120			
Matrix Spike (2316634-MS2)				Source: 2324021-02		Prepared: 2023-06-15 Analyzed: 2023-06-16					
Nitrate as N	0.475	0.050	mg/L	0.500	0.025	ND	95.0	80-120			

North Texas Municipal Water District

Floyd Branch WWTP
111 E. Buckingham
Richardson, TEXAS 75081

Project: **30TAC307 Monitoring**
Project Number: 30TAC307+Table III
Project Manager: Kristen Suprobo

Reported:
2023-09-19 13:44

ANALYTICAL REPORT FOR SAMPLES

Anions by EPA 300 Series - Quality Control North Texas Municipal Water District

Analyte	Result	AQL	Units	Spike Level	MDL	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2316634 - [300.0 Anions] 300.0 Anions

Matrix Spike (2316634-MS2)		Source: 2324021-02			Prepared: 2023-06-15 Analyzed: 2023-06-16						
Fluoride	0.844	0.050	mg/L	0.500	0.025	0.329	103	80-120			
Matrix Spike Dup (2316634-MSD1)		Source: 2323226-08			Prepared: 2023-06-15 Analyzed: 2023-06-16						
Nitrate as N	0.728	0.050	mg/L	0.500	0.025	0.137	118	80-120	0.137	10	
Fluoride	1.42	0.050	"	0.500	0.025	0.897	105	80-120	1.49	10	
Matrix Spike Dup (2316634-MSD2)		Source: 2324021-02			Prepared: 2023-06-15 Analyzed: 2023-06-16						
Nitrate as N	0.494	0.050	mg/L	0.500	0.025	ND	98.8	80-120	3.92	10	
Fluoride	0.871	0.050	"	0.500	0.025	0.329	108	80-120	3.15	10	

ANALYTICAL REPORT FOR SAMPLES

General Notes and Definitions

DET	Analyte DETECTED
dry	Sample results reported on a dry weight basis
MDL	Method Detection Limit
MRL	Method Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
SRL	Sample Reporting Limit
Note:	"Conductance at 25°C" is also known as Specific Conductance

Report Notes and Definitions

*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
CCBJ	CCB is >1/2 IMRL and <IMRL
CCVA	CCV acceptable at this range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Estimated value. The analyte was positively identified but the quantitation is estimation. This estimated report value is between the MDL and MRL (PQL).
Ja	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
SUB	QA/QC for subcontracted analysis appears on hardcopy of subcontract laboratory report.

mg/l

Updated: 4/30/2022

Version 1.0

Time	Activity
8:30 AM	Y/Ma Zerkva / Gar
9:30 AM	Gar / Y/Ma Zerkva

[illegible]

Legend: FC=Flow Composite, Obs.=Observed, Cor.=Corrected

ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Harden
North Texas Municipal Water District
PO BOX 2408
Wylie, Texas 75098

Generated 7/7/2023 8:00:46 PM

JOB DESCRIPTION

Floyd Branch WWTP/2324004

JOB NUMBER

870-17931-1

Eurofins Dallas
9701 Harry Hines Blvd
Dallas TX 75220

See page two for job notes and contact information.

Page 1 of 67



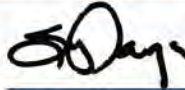
Eurofins Dallas

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/7/2023 8:00:46 PM

Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Page 2 of 67

7/7/2023

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Detection Summary	9
Client Sample Results	10
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	41
Lab Chronicle	46
Certification Summary	48
Method Summary	49
Sample Summary	50
Subcontract Data	51
Chain of Custody	63
Receipt Checklists	66

Definitions/Glossary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA TICs

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
■	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

Eurofins Dallas

Definitions/Glossary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Page 5 of 67

7/7/2023

Case Narrative

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Job ID: 870-17931-1

Laboratory: Eurofins Dallas

Narrative

Job Narrative
870-17931-1

Receipt

The samples were received on 6/15/2023 3:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.6°C, 1.8°C, 2.4°C and 3.8°C

SUBCONTRACTING

The following analysis was subcontracted to Ana-Lab Corporation:
General Subcontract Method

GC/MS VOA

Method 624.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 870-13152 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-108515 and analytical batch 860-108623 recovered outside control limits for the following analytes: Benzidine and Pyridine.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2324004-01 (Influent TC) (870-17931-1) and 2324004-04 (Effluent TC) (870-17931-3). These results have been reported and qualified.

Method 625.1: The following sample was diluted due to the nature of the sample matrix: 2324004-01 (Influent TC) (870-17931-1). Elevated reporting limits (RLs) are provided.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: 2324004-01 (Influent TC) (870-17931-1) and 2324004-04 (Effluent TC) (870-17931-3). These results have been reported and qualified.

Method 625.1: The following sample was diluted due to the nature of the sample matrix: 2324004-01 (Influent TC) (870-17931-1). Elevated reporting limits (RLs) are provided.

Method 625.1: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-109227 and analytical batch 860-109241 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene, 2,2'-oxybis[1-chloropropane], 2-Chloronaphthalene, Benzidine, Fluorene and Hexachloroethane. The associated sample was re-prepared and re-analyzed outside holding time. Both sets of data have been reported.

Method 625.1: The following samples were re-prepared and re-analyzed outside of preparation holding time due to QC failed on first extract: 2324004-01 (Influent TC) (870-17931-1) and 2324004-04 (Effluent TC) (870-17931-3).

Method 625.1: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-108515 and analytical batch 860-108623 recovered outside control limits for the following analyte: Hexachloroethane. The associated sample was re-prepared and re-analyzed outside holding time. Both sets of data have been reported.

Method 625.1: The surrogate recovery for the laboratory control sample and laboratory control duplicate associated with preparation batch 860-109227 and analytical batch 860-109241 was outside the control limit.

Case Narrative

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Job ID: 870-17931-1 (Continued)

Laboratory: Eurofins Dallas (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 615_MOD: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-108342 and analytical batch 860-108383 recovered outside control limits for the following analyte(s): Dinoseb. Dinoseb has been identified as a poor performing analyte when analyzed using this method.

Method 615_MOD: Internal standard (ISTD) response for 4,4'-Dibromooctafluorobiphenyl for the following sample in analytical batch 860-108383 was outside acceptance criteria: (MB 860-108342/1-A). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 608.3_PCB: Surrogate recovery for the following samples were outside the upper control limit: 2324004-01 (Influent TC) (870-17931-1) and 2324004-04 (Effluent TC) (870-17931-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 608.3_Pest: The laboratory control sample duplicate (LCSD) for preparation batch 860-108599 and analytical batch 860-108612 recovered outside control limits for the following analytes: beta-BHC. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 632: The following samples were prepared outside of preparation holding time : 2324004-01 (Influent TC) (870-17931-1) and 2324004-04 (Effluent TC) (870-17931-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 200.8: The method blank for preparation batch 860-109547 and analytical batch 860-109760 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 335.4: The sample duplicate (DUP) precision for preparation batch 860-109534 and analytical batch 860-109762 was outside control limits. Sample non-homogeneity is suspected.

Method 7196A: Sample was filtered prior to analysis. Filtered sample maintained a slight color, which could possibly impact the final results. 2324004-03 (Influent G) (870-17931-2)

Method 7196A: The following sample was filtered prior to analysis; however, there was a slight cloudiness which may affect these colorimetric results: 2324004-03 (Influent G) (870-17931-2)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Job ID: 870-17931-1 (Continued)

Laboratory: Eurofins Dallas (Continued)

Subcontract Lab non-Sister Lab
See attached subcontract report.



Detection Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-01 (Influent TC)

Lab Sample ID: 870-17931-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diuron	0.0304	H	0.00900	0.00514	ug/L	1		632	Total/NA

Client Sample ID: 2324004-03 (Influent G)

Lab Sample ID: 870-17931-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromodichloromethane	0.00134	J	0.00200	0.000696	mg/L	1		624.1	Total/NA
Toluene	0.0162		0.00500	0.00161	mg/L	1		624.1	Total/NA
Cyanide, Total	2.55	J	5.00	2.00	ug/L	1		335.4	Total/NA
Phenols, Total	38.0		10.0	5.80	ug/L	1		420.4	Total/NA
Cyanide, Non-amenable	5.26		5.00	2.33	ug/L	1		4500 CN G NonAm	Total/NA
Cr (VI)	30.4		10.0	2.80	ug/L	1		7196A	Total/NA

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diuron	0.0634	H	0.00900	0.00514	ug/L	1		632	Total/NA

Client Sample ID: 2324004-06 (Effluent G)

Lab Sample ID: 870-17931-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cr	0.000916	J B	0.00300	0.000325	mg/L	1		200.8	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Dallas

Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-01 (Influent TC)

Lab Sample ID: 870-17931-1

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<13.2	U	100	13.2	ug/L		06/19/23 16:07	06/21/23 22:25	10
Acenaphthene	<13.9	U	57.0	13.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
Acenaphthylene	<14.1	U	100	14.1	ug/L		06/19/23 16:07	06/21/23 22:25	10
Anthracene	<15.0	U	57.0	15.0	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzidine	<48.0	U *	200	48.0	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzo[a]anthracene	<1.73	U	50.0	1.73	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzo[a]pyrene	<3.64	U	50.0	3.64	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzo[b]fluoranthene	<20.4	U	100	20.4	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzo[g,h,i]perylene	<26.8	U	100	26.8	ug/L		06/19/23 16:07	06/21/23 22:25	10
Benzo[k]fluoranthene	<3.75	U	50.0	3.75	ug/L		06/19/23 16:07	06/21/23 22:25	10
Butyl benzyl phthalate	<3.37	U	50.0	3.37	ug/L		06/19/23 16:07	06/21/23 22:25	10
Bis(2-chloroethyl)ether	<21.6	U	100	21.6	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4,5-Trichlorophenol	<20.0	U	100	20.0	ug/L		06/19/23 16:07	06/21/23 22:25	10
Bis(2-chloroethoxy)methane	<17.6	U	100	17.6	ug/L		06/19/23 16:07	06/21/23 22:25	10
Bis(2-ethylhexyl) phthalate	<2.77	U	50.0	2.77	ug/L		06/19/23 16:07	06/21/23 22:25	10
4-Chlorophenyl phenyl ether	<12.8	U	100	12.8	ug/L		06/19/23 16:07	06/21/23 22:25	10
4-Bromophenyl phenyl ether	<2.56	U	50.0	2.56	ug/L		06/19/23 16:07	06/21/23 22:25	10
2-Chloronaphthalene	<4.62	U	50.0	4.62	ug/L		06/19/23 16:07	06/21/23 22:25	10
Chrysene	<2.22	U	50.0	2.22	ug/L		06/19/23 16:07	06/21/23 22:25	10
Dibenz(a,h)anthracene	<2.46	U	50.0	2.46	ug/L		06/19/23 16:07	06/21/23 22:25	10
Diethyl phthalate	<15.9	U	50.0	15.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
Dimethyl phthalate	<2.99	U	25.0	2.99	ug/L		06/19/23 16:07	06/21/23 22:25	10
Di-n-butyl phthalate	<2.52	U	50.0	2.52	ug/L		06/19/23 16:07	06/21/23 22:25	10
2-Methylphenol	<0.0162	U	0.100	0.0162	mg/L		06/19/23 16:07	06/21/23 22:25	10
3 & 4 Methylphenol	<0.0262	U	0.100	0.0262	mg/L		06/19/23 16:07	06/21/23 22:25	10
3,3'-Dichlorobenzidine	<3.41	U	50.0	3.41	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4-Dinitrotoluene	<13.1	U	100	13.1	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,6-Dinitrotoluene	<16.1	U	50.0	16.1	ug/L		06/19/23 16:07	06/21/23 22:25	10
Azobenzene	<15.0	U	100	15.0	ug/L		06/19/23 16:07	06/21/23 22:25	10
Fluoranthene	<15.9	U	50.0	15.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
Fluorene	<16.3	U	50.0	16.3	ug/L		06/19/23 16:07	06/21/23 22:25	10
Hexachlorobenzene	<3.07	U	50.0	3.07	ug/L		06/19/23 16:07	06/21/23 22:25	10
Hexachlorobutadiene	<2.38	U	10.0	2.38	ug/L		06/19/23 16:07	06/21/23 22:25	10
Hexachlorocyclopentadiene	<45.8	U	100	45.8	ug/L		06/19/23 16:07	06/21/23 22:25	10
Hexachloroethane	<5.26	U *	48.0	5.26	ug/L		06/19/23 16:07	06/21/23 22:25	10
Indeno[1,2,3-cd]pyrene	<22.9	U	50.0	22.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
Isophorone	<16.4	U	50.0	16.4	ug/L		06/19/23 16:07	06/21/23 22:25	10
Naphthalene	<5.42	U	25.0	5.42	ug/L		06/19/23 16:07	06/21/23 22:25	10
Nitrobenzene	<16.6	U	50.0	16.6	ug/L		06/19/23 16:07	06/21/23 22:25	10
N-Nitrosodimethylamine	<20.2	U	100	20.2	ug/L		06/19/23 16:07	06/21/23 22:25	10
Phenanthrene	<14.2	U	100	14.2	ug/L		06/19/23 16:07	06/21/23 22:25	10
Pyrene	<1.78	U	50.0	1.78	ug/L		06/19/23 16:07	06/21/23 22:25	10
1,2,4-Trichlorobenzene	<0.0161	U	0.0500	0.0161	mg/L		06/19/23 16:07	06/21/23 22:25	10
2-Chlorophenol	<6.49	U	50.0	6.49	ug/L		06/19/23 16:07	06/21/23 22:25	10
4-Chloro-3-methylphenol	<15.7	U	50.0	15.7	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4-Dichlorophenol	<3.14	U	50.0	3.14	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4-Dimethylphenol	<6.49	U	50.0	6.49	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4-Dinitrophenol	<4.99	U	100	4.99	ug/L		06/19/23 16:07	06/21/23 22:25	10
2-Nitrophenol	<16.7	U	100	16.7	ug/L		06/19/23 16:07	06/21/23 22:25	10

Eurofins Dallas

Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-01 (Influent TC)

Lab Sample ID: 870-17931-1

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<49.1	U	72.0	49.1	ug/L		06/19/23 16:07	06/21/23 22:25	10
Pentachlorophenol	<0.00234	U	0.100	0.00234	mg/L		06/19/23 16:07	06/21/23 22:25	10
Phenol	<4.23	U	45.0	4.23	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,4,6-Trichlorophenol	<14.2	U	50.0	14.2	ug/L		06/19/23 16:07	06/21/23 22:25	10
Di-n-octyl phthalate	<3.73	U	50.0	3.73	ug/L		06/19/23 16:07	06/21/23 22:25	10
N-Nitrosodi-n-propylamine	<28.8	U	100	28.8	ug/L		06/19/23 16:07	06/21/23 22:25	10
N-Nitrosodiphenylamine	<18.1	U	100	18.1	ug/L		06/19/23 16:07	06/21/23 22:25	10
2,2'-oxybis[1-chloropropane]	<17.9	U	100	17.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
4,6-Dinitro-2-methylphenol	<14.4	U	100	14.4	ug/L		06/19/23 16:07	06/21/23 22:25	10
1,2-Diphenylhydrazine	<14.9	U	100	14.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
N-Nitrosodi-n-butylamine	<14.9	U	100	14.9	ug/L		06/19/23 16:07	06/21/23 22:25	10
N-Nitrosodiethylamine	<17.5	U	100	17.5	ug/L		06/19/23 16:07	06/21/23 22:25	10
4-Nonylphenol	<100	U	100	100	ug/L		06/19/23 16:07	06/21/23 22:25	10
Pentachlorobenzene	<10.7	U	100	10.7	ug/L		06/19/23 16:07	06/21/23 22:25	10
Pyridine	<26.4	U *1	100	26.4	ug/L		06/19/23 16:07	06/21/23 22:25	10
Total Cresols	<26.2	U	100	26.2	ug/L		06/19/23 16:07	06/21/23 22:25	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD TIC	<1000	U	ug/L			1746-01-6	06/19/23 16:07	06/21/23 22:25	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	83		31 - 132	06/19/23 16:07	06/21/23 22:25	10
2-Fluorobiphenyl (Surr)	66		29 - 112	06/19/23 16:07	06/21/23 22:25	10
2-Fluorophenol (Surr)	19	S1-	28 - 114	06/19/23 16:07	06/21/23 22:25	10
Nitrobenzene-d5 (Surr)	51		15 - 314	06/19/23 16:07	06/21/23 22:25	10
p-Terphenyl-d14 (Surr)	81		20 - 141	06/19/23 16:07	06/21/23 22:25	10
Phenol-d5 (Surr)	13		8 - 424	06/19/23 16:07	06/21/23 22:25	10

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00113	U	0.0100	0.00113	ug/L		06/20/23 07:13	06/20/23 15:30	1
alpha-BHC	<0.00142	U	0.00900	0.00142	ug/L		06/20/23 07:13	06/20/23 15:30	1
beta-BHC	<0.00389	U *	0.0180	0.00389	ug/L		06/20/23 07:13	06/20/23 15:30	1
delta-BHC	<0.00245	U	0.250	0.00245	ug/L		06/20/23 07:13	06/20/23 15:30	1
gamma-BHC (Lindane)	<0.00299	U	0.0100	0.00299	ug/L		06/20/23 07:13	06/20/23 15:30	1
4,4'-DDD	<0.000814	U	0.0100	0.000814	ug/L		06/20/23 07:13	06/20/23 15:30	1
4,4'-DDE	<0.00109	U	0.0100	0.00109	ug/L		06/20/23 07:13	06/20/23 15:30	1
4,4'-DDT	<0.00379	U	0.0200	0.00379	ug/L		06/20/23 07:13	06/20/23 15:30	1
Dieldrin	<0.000953	U	0.0100	0.000953	ug/L		06/20/23 07:13	06/20/23 15:30	1
Endosulfan I	<0.00107	U	0.0100	0.00107	ug/L		06/20/23 07:13	06/20/23 15:30	1
Endosulfan II	<0.00122	U	0.0100	0.00122	ug/L		06/20/23 07:13	06/20/23 15:30	1
Endosulfan sulfate	<0.00112	U	0.0100	0.00112	ug/L		06/20/23 07:13	06/20/23 15:30	1
Endrin	<0.00156	U	0.0100	0.00156	ug/L		06/20/23 07:13	06/20/23 15:30	1
Endrin aldehyde	<0.00118	U	0.0100	0.00118	ug/L		06/20/23 07:13	06/20/23 15:30	1
Dicofol	<0.0000500	U	0.000100	0.0000500	mg/L		06/20/23 07:13	06/20/23 15:30	1
Heptachlor	<0.00446	U	0.00900	0.00446	ug/L		06/20/23 07:13	06/20/23 15:30	1
Heptachlor epoxide	<0.00134	U	0.0100	0.00134	ug/L		06/20/23 07:13	06/20/23 15:30	1
Toxaphene	<0.0769	U	0.100	0.0769	ug/L		06/20/23 07:13	06/20/23 15:30	1
Chlordane	<0.103	U	0.0400	0.103	ug/L		06/20/23 07:13	06/20/23 15:30	1

Eurofins Dallas

Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-01 (Influent TC)

Date Collected: 06/15/23 08:30

Date Received: 06/15/23 15:46

Lab Sample ID: 870-17931-1

Matrix: Water

Method: EPA 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.0000390	U	0.0000200	0.0000039	mg/L		06/20/23 07:13	06/20/23 15:30	1
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		06/20/23 07:13	06/20/23 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Sum)	99		15 - 136				06/20/23 07:13	06/20/23 15:30	1
Tetrachloro-m-xylene	76	p	18 - 126				06/20/23 07:13	06/20/23 15:30	1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:13	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 14:13	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		06/20/23 07:13	06/20/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		18 - 126				06/20/23 07:13	06/20/23 14:13	1
DCB Decachlorobiphenyl (Sum)	180	S1+	15 - 136				06/20/23 07:13	06/20/23 14:13	1

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000551	U	0.000204	0.0000551	mg/L		06/18/23 13:42	06/19/23 23:35	1
Hexachlorophene	<0.000826	U	0.00511	0.000826	mg/L		06/18/23 13:42	06/19/23 23:35	1
Silvex (2,4,5-TP)	<0.0000431	U	0.000204	0.0000431	mg/L		06/18/23 13:42	06/19/23 23:35	1
Dalapon	<0.0000487	U	0.000204	0.0000487	mg/L		06/18/23 13:42	06/19/23 23:35	1
Dicamba	<0.0000433	U	0.000204	0.0000433	mg/L		06/18/23 13:42	06/19/23 23:35	1
Dinoseb	<0.0000351	U *	0.000204	0.0000351	mg/L		06/18/23 13:42	06/19/23 23:35	1
Pentachlorophenol	<0.0000453	U	0.000204	0.0000453	mg/L		06/18/23 13:42	06/19/23 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	137		45 - 150				06/18/23 13:42	06/19/23 23:35	1

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<0.185	U H	0.500	0.185	ug/L		06/28/23 10:33	07/07/23 02:56	1
Diuron	0.0304	H	0.00900	0.00514	ug/L		06/28/23 10:33	07/07/23 02:56	1

Client Sample ID: 2324004-03 (Influent G)

Date Collected: 06/15/23 08:30

Date Received: 06/15/23 15:46

Lab Sample ID: 870-17931-2

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00145	U F1	0.00500	0.00145	mg/L			06/15/23 18:13	1
1,1,2,2-Tetrachloroethane	<0.00171	U	0.00500	0.00171	mg/L			06/15/23 18:13	1
1,1,2-Trichloroethane	<0.000747	U	0.00200	0.000747	mg/L			06/15/23 18:13	1
1,1-Dichloroethane	<0.00103	U	0.00500	0.00103	mg/L			06/15/23 18:13	1
1,1-Dichloroethene	<0.000575	U	0.00200	0.000575	mg/L			06/15/23 18:13	1

Eurofins Dallas

Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-03 (Influent G)

Lab Sample ID: 870-17931-2

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.000593	U	0.00200	0.000593	mg/L			06/15/23 18:13	1
1,2-Dibromoethane	<0.000631	U	0.00200	0.000631	mg/L			06/15/23 18:13	1
1,2-Dichlorobenzene	<0.000603	U	0.00200	0.000603	mg/L			06/15/23 18:13	1
1,2-Dichloroethane	<0.00153	U	0.00500	0.00153	mg/L			06/15/23 18:13	1
1,2-Dichloropropane	<0.00155	U	0.00500	0.00155	mg/L			06/15/23 18:13	1
1,3-Dichlorobenzene	<0.00108	U	0.00500	0.00108	mg/L			06/15/23 18:13	1
1,4-Dichlorobenzene	<0.000637	U	0.00200	0.000637	mg/L			06/15/23 18:13	1
2-Butanone	<0.00453	U F1	0.0200	0.00453	mg/L			06/15/23 18:13	1
2-Chloroethyl vinyl ether	<0.00120	U	0.00500	0.00120	mg/L			06/15/23 18:13	1
Acetone	<0.0213	U F1 F2	0.0500	0.0213	mg/L			06/15/23 18:13	1
Acrolein	<0.0231	U F1 F2	0.0500	0.0231	mg/L			06/15/23 18:13	1
Acrylonitrile	<0.00780	U	0.0500	0.00780	mg/L			06/15/23 18:13	1
Benzene	<0.000496	U	0.00200	0.000496	mg/L			06/15/23 18:13	1
Bromodichloromethane	0.00134	J	0.00200	0.000696	mg/L			06/15/23 18:13	1
Bromoform	<0.00133	U	0.00500	0.00133	mg/L			06/15/23 18:13	1
Bromomethane	<0.00188	U	0.00500	0.00188	mg/L			06/15/23 18:13	1
Carbon tetrachloride	<0.00126	U	0.00200	0.00126	mg/L			06/15/23 18:13	1
Chlorobenzene	<0.000945	U	0.00500	0.000945	mg/L			06/15/23 18:13	1
Chloroethane	<0.00145	U	0.00500	0.00145	mg/L			06/15/23 18:13	1
Chloroform	<0.00121	U	0.00500	0.00121	mg/L			06/15/23 18:13	1
Chloromethane	<0.000941	U	0.00500	0.000941	mg/L			06/15/23 18:13	1
Dibromochloromethane	<0.00175	U	0.00500	0.00175	mg/L			06/15/23 18:13	1
Ethylbenzene	<0.000878	U	0.00500	0.000878	mg/L			06/15/23 18:13	1
MTBE	<0.00268	U	0.0100	0.00268	mg/L			06/15/23 18:13	1
Methylene Chloride	<0.000829	U	0.00500	0.000829	mg/L			06/15/23 18:13	1
Naphthalene	<0.000927	U	0.00500	0.000927	mg/L			06/15/23 18:13	1
Tetrachloroethene	<0.000900	U	0.00500	0.000900	mg/L			06/15/23 18:13	1
Toluene	0.0162		0.00500	0.00161	mg/L			06/15/23 18:13	1
Xylenes, Total	<0.00113	U	0.00500	0.00113	mg/L			06/15/23 18:13	1
Trichloroethene	<0.00169	U	0.00500	0.00169	mg/L			06/15/23 18:13	1
Trichlorofluoromethane	<0.00124	U	0.00500	0.00124	mg/L			06/15/23 18:13	1
Vinyl chloride	<0.000592	U	0.00200	0.000592	mg/L			06/15/23 18:13	1
cis-1,2-Dichloroethene	<0.000796	U F1	0.00500	0.000796	mg/L			06/15/23 18:13	1
cis-1,3-Dichloropropene	<0.000885	U	0.00500	0.000885	mg/L			06/15/23 18:13	1
m,p-Xylenes	<0.00113	U	0.00500	0.00113	mg/L			06/15/23 18:13	1
o-Xylene	<0.000488	U	0.00200	0.000488	mg/L			06/15/23 18:13	1
trans-1,2-Dichloroethene	<0.000903	U F1	0.00500	0.000903	mg/L			06/15/23 18:13	1
trans-1,3-Dichloropropene	<0.00195	U	0.00500	0.00195	mg/L			06/15/23 18:13	1
Trihalomethanes, Total	<1.75	U	5.00	1.75	ug/L			06/15/23 18:13	1
Vinyl acetate	<0.00169	U	0.00500	0.00169	mg/L			06/15/23 18:13	1
1,3-Dichloropropene, Total	<0.00195	U	0.00500	0.00195	mg/L			06/15/23 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		76 - 118					06/15/23 18:13	1
4-Bromofluorobenzene (Surr)	104		76 - 119					06/15/23 18:13	1
Dibromofluoromethane (Surr)	98		61 - 132					06/15/23 18:13	1
Toluene-d8 (Surr)	102		74 - 130					06/15/23 18:13	1

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-03 (Influent G)

Lab Sample ID: 870-17931-2

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	<0.000325	U	0.00300	0.000325	mg/L		06/26/23 11:30	06/27/23 01:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	2.55	J	5.00	2.00	ug/L		06/26/23 11:13	06/26/23 16:11	1
Phenols, Total (EPA 420.4)	38.0		10.0	5.80	ug/L			06/21/23 18:11	1
Cyanide, Non-amenable (SM 4500 CN G NonAm)	5.26		5.00	2.33	ug/L		06/26/23 11:20	06/26/23 16:32	1
Cr (VI) (SW846 7196A)	30.4		10.0	2.80	ug/L			06/15/23 16:33	1
Cr (III) (SM 3500 CR B)	<2.00	U	3.00	2.00	ug/L			06/22/23 08:58	1
Cyanide, Amenable (SM 4500 CN G)	<2.33	U	5.00	2.33	ug/L			06/20/23 09:22	1

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 825.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<1.32	U	10.0	1.32	ug/L		06/19/23 16:07	06/21/23 22:45	1
Acenaphthene	<1.39	U	5.70	1.39	ug/L		06/19/23 16:07	06/21/23 22:45	1
Acenaphthylene	<1.41	U	10.0	1.41	ug/L		06/19/23 16:07	06/21/23 22:45	1
Anthracene	<1.50	U	5.70	1.50	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzidine	<4.80	U	20.0	4.80	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzo[a]anthracene	<0.173	U	5.00	0.173	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzo[a]pyrene	<0.364	U	5.00	0.364	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzo[b]fluoranthene	<2.04	U	10.0	2.04	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzo[g,h,i]perylene	<2.68	U	10.0	2.68	ug/L		06/19/23 16:07	06/21/23 22:45	1
Benzo[k]fluoranthene	<0.375	U	5.00	0.375	ug/L		06/19/23 16:07	06/21/23 22:45	1
Butyl benzyl phthalate	<0.337	U	5.00	0.337	ug/L		06/19/23 16:07	06/21/23 22:45	1
Bis(2-chloroethyl)ether	<2.16	U	10.0	2.16	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4,5-Trichlorophenol	<2.00	U	10.0	2.00	ug/L		06/19/23 16:07	06/21/23 22:45	1
Bis(2-chloroethoxy)methane	<1.76	U	10.0	1.76	ug/L		06/19/23 16:07	06/21/23 22:45	1
Bis(2-ethylhexyl) phthalate	<0.277	U	5.00	0.277	ug/L		06/19/23 16:07	06/21/23 22:45	1
4-Chlorophenyl phenyl ether	<1.28	U	10.0	1.28	ug/L		06/19/23 16:07	06/21/23 22:45	1
4-Bromophenyl phenyl ether	<0.256	U	5.00	0.256	ug/L		06/19/23 16:07	06/21/23 22:45	1
2-Chloronaphthalene	<0.462	U	5.00	0.462	ug/L		06/19/23 16:07	06/21/23 22:45	1
Chrysene	<0.222	U	5.00	0.222	ug/L		06/19/23 16:07	06/21/23 22:45	1
Dibenz(a,h)anthracene	<0.246	U	5.00	0.246	ug/L		06/19/23 16:07	06/21/23 22:45	1
Diethyl phthalate	<1.59	U	5.00	1.59	ug/L		06/19/23 16:07	06/21/23 22:45	1
Dimethyl phthalate	<0.299	U	2.50	0.299	ug/L		06/19/23 16:07	06/21/23 22:45	1
Di-n-butyl phthalate	<0.252	U	5.00	0.252	ug/L		06/19/23 16:07	06/21/23 22:45	1
2-Methylphenol	<0.00162	U	0.0100	0.00162	mg/L		06/19/23 16:07	06/21/23 22:45	1
3 & 4 Methylphenol	<0.00262	U	0.0100	0.00262	mg/L		06/19/23 16:07	06/21/23 22:45	1
3,3'-Dichlorobenzidine	<0.341	U	5.00	0.341	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4-Dinitrotoluene	<1.31	U	10.0	1.31	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,6-Dinitrotoluene	<1.81	U	5.00	1.81	ug/L		06/19/23 16:07	06/21/23 22:45	1
Azobenzene	<1.50	U	10.0	1.50	ug/L		06/19/23 16:07	06/21/23 22:45	1
Fluoranthene	<1.59	U	5.00	1.59	ug/L		06/19/23 16:07	06/21/23 22:45	1
Fluorene	<1.63	U	5.00	1.63	ug/L		06/19/23 16:07	06/21/23 22:45	1
Hexachlorobenzene	<0.307	U	5.00	0.307	ug/L		06/19/23 16:07	06/21/23 22:45	1

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.238	U	1.00	0.238	ug/L		06/19/23 16:07	06/21/23 22:45	1
Hexachlorocyclopentadiene	<4.58	U	10.0	4.58	ug/L		06/19/23 16:07	06/21/23 22:45	1
Hexachloroethane	<0.526	U	4.80	0.526	ug/L		06/19/23 16:07	06/21/23 22:45	1
Indeno[1,2,3-cd]pyrene	<2.29	U	5.00	2.29	ug/L		06/19/23 16:07	06/21/23 22:45	1
Isophorone	<1.64	U	5.00	1.64	ug/L		06/19/23 16:07	06/21/23 22:45	1
Naphthalene	<0.542	U	2.50	0.542	ug/L		06/19/23 16:07	06/21/23 22:45	1
Nitrobenzene	<1.66	U	5.00	1.66	ug/L		06/19/23 16:07	06/21/23 22:45	1
N-Nitrosodimethylamine	<2.02	U	10.0	2.02	ug/L		06/19/23 16:07	06/21/23 22:45	1
Phenanthrene	<1.42	U	10.0	1.42	ug/L		06/19/23 16:07	06/21/23 22:45	1
Pyrene	<0.178	U	5.00	0.178	ug/L		06/19/23 16:07	06/21/23 22:45	1
1,2,4-Trichlorobenzene	<0.00161	U	0.00500	0.00161	mg/L		06/19/23 16:07	06/21/23 22:45	1
2-Chlorophenol	<0.649	U	5.00	0.649	ug/L		06/19/23 16:07	06/21/23 22:45	1
4-Chloro-3-methylphenol	<1.57	U	5.00	1.57	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4-Dichlorophenol	<0.314	U	5.00	0.314	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4-Dimethylphenol	<0.649	U	5.00	0.649	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4-Dinitrophenol	<0.499	U	10.0	0.499	ug/L		06/19/23 16:07	06/21/23 22:45	1
2-Nitrophenol	<1.67	U	10.0	1.67	ug/L		06/19/23 16:07	06/21/23 22:45	1
4-Nitrophenol	<4.91	U	7.20	4.91	ug/L		06/19/23 16:07	06/21/23 22:45	1
Pentachlorophenol	<0.000234	U	0.0100	0.000234	mg/L		06/19/23 16:07	06/21/23 22:45	1
Phenol	<0.423	U	4.50	0.423	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,4,6-Trichlorophenol	<1.42	U	5.00	1.42	ug/L		06/19/23 16:07	06/21/23 22:45	1
Di-n-octyl phthalate	<0.373	U	5.00	0.373	ug/L		06/19/23 16:07	06/21/23 22:45	1
N-Nitrosodi-n-propylamine	<2.88	U	10.0	2.88	ug/L		06/19/23 16:07	06/21/23 22:45	1
N-Nitrosodiphenylamine	<1.81	U	10.0	1.81	ug/L		06/19/23 16:07	06/21/23 22:45	1
2,2'-oxybis[1-chloropropane]	<1.79	U	10.0	1.79	ug/L		06/19/23 16:07	06/21/23 22:45	1
4,6-Dinitro-2-methylphenol	<1.44	U	10.0	1.44	ug/L		06/19/23 16:07	06/21/23 22:45	1
1,2-Diphenylhydrazine	<1.49	U	10.0	1.49	ug/L		06/19/23 16:07	06/21/23 22:45	1
N-Nitrosodi-n-butylamine	<1.49	U	10.0	1.49	ug/L		06/19/23 16:07	06/21/23 22:45	1
N-Nitrosodiethylamine	<1.75	U	10.0	1.75	ug/L		06/19/23 16:07	06/21/23 22:45	1
4-Nonylphenol	<10.0	U	10.0	10.0	ug/L		06/19/23 16:07	06/21/23 22:45	1
Pentachlorobenzene	<1.07	U	10.0	1.07	ug/L		06/19/23 16:07	06/21/23 22:45	1
Pyridine	<2.64	U	10.0	2.64	ug/L		06/19/23 16:07	06/21/23 22:45	1
Total Cresols	<2.62	U	10.0	2.62	ug/L		06/19/23 16:07	06/21/23 22:45	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD TIC	<100	U	ug/L			1746-01-6	06/19/23 16:07	06/21/23 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		31 - 132	06/19/23 16:07	06/21/23 22:45	1
2-Fluorobiphenyl (Surr)	52		29 - 112	06/19/23 16:07	06/21/23 22:45	1
2-Fluorophenol (Surr)	14	S1-	28 - 114	06/19/23 16:07	06/21/23 22:45	1
Nitrobenzene-d5 (Surr)	52		15 - 314	06/19/23 16:07	06/21/23 22:45	1
p-Terphenyl-d14 (Surr)	81		20 - 141	06/19/23 16:07	06/21/23 22:45	1
Phenol-d5 (Surr)	9		8 - 424	06/19/23 16:07	06/21/23 22:45	1

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00113	U	0.0100	0.00113	ug/L		06/20/23 07:13	06/20/23 15:16	1
alpha-BHC	<0.00142	U	0.00900	0.00142	ug/L		06/20/23 07:13	06/20/23 15:16	1
beta-BHC	<0.00389	U	0.0180	0.00389	ug/L		06/20/23 07:13	06/20/23 15:16	1

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	<0.00245	U	0.250	0.00245	ug/L		06/20/23 07:13	06/20/23 15:16	1
gamma-BHC (Lindane)	<0.00299	U	0.0100	0.00299	ug/L		06/20/23 07:13	06/20/23 15:16	1
4,4'-DDD	<0.000814	U	0.0100	0.000814	ug/L		06/20/23 07:13	06/20/23 15:16	1
4,4'-DDE	<0.00109	U	0.0100	0.00109	ug/L		06/20/23 07:13	06/20/23 15:16	1
4,4'-DDT	<0.00379	U	0.0200	0.00379	ug/L		06/20/23 07:13	06/20/23 15:16	1
Dieldrin	<0.000953	U	0.0100	0.000953	ug/L		06/20/23 07:13	06/20/23 15:16	1
Endosulfan I	<0.00107	U	0.0100	0.00107	ug/L		06/20/23 07:13	06/20/23 15:16	1
Endosulfan II	<0.00122	U	0.0100	0.00122	ug/L		06/20/23 07:13	06/20/23 15:16	1
Endosulfan sulfate	<0.00112	U	0.0100	0.00112	ug/L		06/20/23 07:13	06/20/23 15:16	1
Endrin	<0.00156	U	0.0100	0.00156	ug/L		06/20/23 07:13	06/20/23 15:16	1
Endrin aldehyde	<0.00118	U	0.0100	0.00118	ug/L		06/20/23 07:13	06/20/23 15:16	1
Dicofol	<0.0000500	U	0.000100	0.0000500	mg/L		06/20/23 07:13	06/20/23 15:16	1
Heptachlor	<0.00446	U	0.00900	0.00446	ug/L		06/20/23 07:13	06/20/23 15:16	1
Heptachlor epoxide	<0.00134	U	0.0100	0.00134	ug/L		06/20/23 07:13	06/20/23 15:16	1
Toxaphene	<0.0769	U	0.100	0.0769	ug/L		06/20/23 07:13	06/20/23 15:16	1
Chlordane	<0.103	U	0.0400	0.103	ug/L		06/20/23 07:13	06/20/23 15:16	1
Methoxychlor	<0.00000390	U	0.0000200	0.0000039	mg/L		06/20/23 07:13	06/20/23 15:16	1
				0					
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		06/20/23 07:13	06/20/23 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Sum)	111		15 - 136				06/20/23 07:13	06/20/23 15:16	1
Tetrachloro-m-xylene	76		18 - 126				06/20/23 07:13	06/20/23 15:16	1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 14:24	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 14:24	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		06/20/23 07:13	06/20/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		18 - 126				06/20/23 07:13	06/20/23 14:24	1
DCB Decachlorobiphenyl (Sum)	163	S1+	15 - 136				06/20/23 07:13	06/20/23 14:24	1

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000547	U	0.000203	0.0000547	mg/L		06/18/23 13:42	06/20/23 00:02	1
Hexachlorophene	<0.000819	U	0.00507	0.000819	mg/L		06/18/23 13:42	06/20/23 00:02	1
Silvex (2,4,5-TP)	<0.0000428	U	0.000203	0.0000428	mg/L		06/18/23 13:42	06/20/23 00:02	1
Delapron	<0.0000483	U	0.000203	0.0000483	mg/L		06/18/23 13:42	06/20/23 00:02	1
Dicamba	<0.0000429	U	0.000203	0.0000429	mg/L		06/18/23 13:42	06/20/23 00:02	1
Dinoseb	<0.0000348	U *	0.000203	0.0000348	mg/L		06/18/23 13:42	06/20/23 00:02	1
Pentachlorophenol	<0.0000449	U	0.000203	0.0000449	mg/L		06/18/23 13:42	06/20/23 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	147		45 - 150				06/18/23 13:42	06/20/23 00:02	1

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<0.185	U H	0.500	0.185	ug/L		06/28/23 10:33	07/07/23 18:04	1
Diuron	0.0634	H	0.00900	0.00514	ug/L		06/28/23 10:33	07/07/23 18:04	1

Client Sample ID: 2324004-06 (Effluent G)

Lab Sample ID: 870-17931-4

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00145	U	0.00500	0.00145	mg/L			06/15/23 19:13	1
1,1,2,2-Tetrachloroethane	<0.00171	U	0.00500	0.00171	mg/L			06/15/23 19:13	1
1,1,2-Trichloroethane	<0.000747	U	0.00200	0.000747	mg/L			06/15/23 19:13	1
1,1-Dichloroethane	<0.00103	U	0.00500	0.00103	mg/L			06/15/23 19:13	1
1,1-Dichloroethene	<0.000575	U	0.00200	0.000575	mg/L			06/15/23 19:13	1
1,2,4-Trichlorobenzene	<0.000593	U	0.00200	0.000593	mg/L			06/15/23 19:13	1
1,2-Dibromoethane	<0.000631	U	0.00200	0.000631	mg/L			06/15/23 19:13	1
1,2-Dichlorobenzene	<0.000603	U	0.00200	0.000603	mg/L			06/15/23 19:13	1
1,2-Dichloroethane	<0.00153	U	0.00500	0.00153	mg/L			06/15/23 19:13	1
1,2-Dichloropropane	<0.00155	U	0.00500	0.00155	mg/L			06/15/23 19:13	1
1,3-Dichlorobenzene	<0.00108	U	0.00500	0.00108	mg/L			06/15/23 19:13	1
1,4-Dichlorobenzene	<0.000637	U	0.00200	0.000637	mg/L			06/15/23 19:13	1
2-Butanone	<0.00453	U	0.0200	0.00453	mg/L			06/15/23 19:13	1
2-Chloroethyl vinyl ether	<0.00120	U	0.00500	0.00120	mg/L			06/15/23 19:13	1
Acetone	<0.0213	U	0.0500	0.0213	mg/L			06/15/23 19:13	1
Acrolein	<0.0231	U	0.0500	0.0231	mg/L			06/15/23 19:13	1
Acrylonitrile	<0.00780	U	0.0500	0.00780	mg/L			06/15/23 19:13	1
Benzene	<0.000496	U	0.00200	0.000496	mg/L			06/15/23 19:13	1
Bromodichloromethane	<0.000696	U	0.00200	0.000696	mg/L			06/15/23 19:13	1
Bromoform	<0.00133	U	0.00500	0.00133	mg/L			06/15/23 19:13	1
Bromomethane	<0.00188	U	0.00500	0.00188	mg/L			06/15/23 19:13	1
Carbon tetrachloride	<0.00126	U	0.00200	0.00126	mg/L			06/15/23 19:13	1
Chlorobenzene	<0.000945	U	0.00500	0.000945	mg/L			06/15/23 19:13	1
Chloroethane	<0.00145	U	0.00500	0.00145	mg/L			06/15/23 19:13	1
Chloroform	<0.00121	U	0.00500	0.00121	mg/L			06/15/23 19:13	1
Chloromethane	<0.000941	U	0.00500	0.000941	mg/L			06/15/23 19:13	1
Dibromochloromethane	<0.00175	U	0.00500	0.00175	mg/L			06/15/23 19:13	1
Ethylbenzene	<0.000878	U	0.00500	0.000878	mg/L			06/15/23 19:13	1
MTBE	<0.00268	U	0.0100	0.00268	mg/L			06/15/23 19:13	1
Methylene Chloride	<0.000829	U	0.00500	0.000829	mg/L			06/15/23 19:13	1
Naphthalene	<0.000927	U	0.00500	0.000927	mg/L			06/15/23 19:13	1
Tetrachloroethene	<0.000900	U	0.00500	0.000900	mg/L			06/15/23 19:13	1
Toluene	<0.00161	U	0.00500	0.00161	mg/L			06/15/23 19:13	1
Xylenes, Total	<0.00113	U	0.00500	0.00113	mg/L			06/15/23 19:13	1
Trichloroethene	<0.00169	U	0.00500	0.00169	mg/L			06/15/23 19:13	1
Trichlorofluoromethane	<0.00124	U	0.00500	0.00124	mg/L			06/15/23 19:13	1
Vinyl chloride	<0.000592	U	0.00200	0.000592	mg/L			06/15/23 19:13	1
cis-1,2-Dichloroethene	<0.000796	U	0.00500	0.000796	mg/L			06/15/23 19:13	1
cis-1,3-Dichloropropene	<0.000885	U	0.00500	0.000885	mg/L			06/15/23 19:13	1
m,p-Xylenes	<0.00113	U	0.00500	0.00113	mg/L			06/15/23 19:13	1
o-Xylene	<0.000488	U	0.00200	0.000488	mg/L			06/15/23 19:13	1

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Client Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-06 (Effluent G)

Lab Sample ID: 870-17931-4

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.000903	U	0.00500	0.000903	mg/L			06/15/23 19:13	1
trans-1,3-Dichloropropene	<0.00195	U	0.00500	0.00195	mg/L			06/15/23 19:13	1
Trihalomethanes, Total	<1.75	U	5.00	1.75	ug/L			06/15/23 19:13	1
Vinyl acetate	<0.00189	U	0.00500	0.00189	mg/L			06/15/23 19:13	1
1,3-Dichloropropene, Total	<0.00195	U	0.00500	0.00195	mg/L			06/15/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		76 - 118					06/15/23 19:13	1
4-Bromofluorobenzene (Surr)	105		76 - 119					06/15/23 19:13	1
Dibromofluoromethane (Surr)	101		61 - 132					06/15/23 19:13	1
Toluene-d8 (Surr)	103		74 - 130					06/15/23 19:13	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	0.000916	J B	0.00300	0.000325	mg/L		06/26/23 11:30	06/27/23 01:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	<2.00	U	5.00	2.00	ug/L		06/26/23 11:13	06/26/23 16:12	1
Phenols, Total (EPA 420.4)	<5.80	U	10.0	5.80	ug/L			06/21/23 18:08	1
Cyanide, Non-amenable (SM 4500 CN G NonAm)	<2.33	U	5.00	2.33	ug/L		06/26/23 11:20	06/26/23 16:33	1
Cr (VI) (SW846 7196A)	<2.80	U	10.0	2.80	ug/L			06/15/23 16:33	1
Cr (III) (SM 3500 CR B)	<2.00	U	3.00	2.00	ug/L			06/22/23 08:58	1
Cyanide, Amenable (SM 4500 CN G)	<2.33	U	5.00	2.33	ug/L			06/20/23 09:22	1

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Surrogate Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (76-118)	BFB (76-119)	DBFM (61-132)	TOL (74-130)
870-17931-2	2324004-03 (Influent G)	106	104	98	102
870-17931-2 MS	2324004-03 (Influent G)	103	102	92	100
870-17931-2 MSD	2324004-03 (Influent G)	94	101	98	103
870-17931-4	2324004-06 (Effluent G)	107	105	101	103
LCS 870-13106/25-A	Lab Control Sample	97	101	97	102
LCSD 870-13106/26-A	Lab Control Sample Dup	102	100	98	100
MB 870-13106/27-A	Method Blank	114	104	96	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (29-112)	2FP (28-114)	NBZ (15-314)	TPHd14 (20-141)	PHL (8-424)
870-17931-1	2324004-01 (Influent TC)	83	66	19 S1-	51	81	13
870-17931-3	2324004-04 (Effluent TC)	71	52	14 S1-	52	81	9
LCS 860-108515/2-A	Lab Control Sample	106	88	52	82	113	39
LCSD 860-108515/3-A	Lab Control Sample Dup	110	92	47	80	112	37
MB 860-108515/1-A	Method Blank	109	96	59	96	118	42

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (15-136)	TCX1 (18-126)
870-17931-1	2324004-01 (Influent TC)	98	78 p
870-17931-3	2324004-04 (Effluent TC)	111	76
LCS 860-108599/2-A	Lab Control Sample	113	90
LCSD 860-108599/3-A	Lab Control Sample Dup	107	85
MB 860-108599/1-A	Method Blank	110	91

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

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Surrogate Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (18-126)	DCB1 (15-136)
870-17931-1	2324004-01 (Influent TC)	45	180 S1+
870-17931-3	2324004-04 (Effluent TC)	64	163 S1+
LCS 860-108599/4-A	Lab Control Sample	85	123
LCSD 860-108599/5-A	Lab Control Sample Dup	86	128
MB 860-108599/1-A	Method Blank	86	127
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCB = DCB Decachlorobiphenyl (Surr)			

Method: 615 - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (45-150)	
870-17931-1	2324004-01 (Influent TC)	137	
870-17931-3	2324004-04 (Effluent TC)	147	
LCS 860-108342/2-A	Lab Control Sample	141	
LCS 860-108342/4-A	Lab Control Sample	128	
LCSD 860-108342/3-A	Lab Control Sample Dup	140	
LCSD 860-108342/5-A	Lab Control Sample Dup	138	
MB 860-108342/1-A	Method Blank	125	
Surrogate Legend			
DCPAA = 2,4-Dichlorophenylacetic acid			

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 870-13106/27-A

Matrix: Water

Analysis Batch: 13152

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00144	U	0.00498	0.00144	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,1,2,2-Tetrachloroethane	<0.00171	U	0.00498	0.00171	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,1,2-Trichloroethane	<0.000744	U	0.00199	0.000744	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,1-Dichloroethane	<0.00103	U	0.00498	0.00103	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,1-Dichloroethene	<0.000573	U	0.00199	0.000573	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,2,4-Trichlorobenzene	<0.000591	U	0.00199	0.000591	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,2-Dibromoethane	<0.000628	U	0.00199	0.000628	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,2-Dichlorobenzene	<0.000601	U	0.00199	0.000601	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,2-Dichloroethane	<0.00153	U	0.00498	0.00153	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,2-Dichloropropane	<0.00154	U	0.00498	0.00154	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,3-Dichlorobenzene	<0.00107	U	0.00498	0.00107	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,4-Dichlorobenzene	<0.000634	U	0.00199	0.000634	mg/L		06/14/23 12:32	06/15/23 16:10	1
2-Butanone	<0.00451	U	0.0199	0.00451	mg/L		06/14/23 12:32	06/15/23 16:10	1
2-Chloroethyl vinyl ether	<0.00119	U	0.00498	0.00119	mg/L		06/14/23 12:32	06/15/23 16:10	1
Acetone	<0.0212	U	0.0498	0.0212	mg/L		06/14/23 12:32	06/15/23 16:10	1
Acrolein	<0.0230	U	0.0498	0.0230	mg/L		06/14/23 12:32	06/15/23 16:10	1
Acrylonitrile	<0.00777	U	0.0498	0.00777	mg/L		06/14/23 12:32	06/15/23 16:10	1
Benzene	<0.000494	U	0.00199	0.000494	mg/L		06/14/23 12:32	06/15/23 16:10	1
Bromodichloromethane	<0.000693	U	0.00199	0.000693	mg/L		06/14/23 12:32	06/15/23 16:10	1
Bromoform	<0.00133	U	0.00498	0.00133	mg/L		06/14/23 12:32	06/15/23 16:10	1
Bromomethane	<0.00187	U	0.00498	0.00187	mg/L		06/14/23 12:32	06/15/23 16:10	1
Carbon tetrachloride	<0.00125	U	0.00199	0.00125	mg/L		06/14/23 12:32	06/15/23 16:10	1
Chlorobenzene	<0.000941	U	0.00498	0.000941	mg/L		06/14/23 12:32	06/15/23 16:10	1
Chloroethane	<0.00145	U	0.00498	0.00145	mg/L		06/14/23 12:32	06/15/23 16:10	1
Chloroform	<0.00120	U	0.00498	0.00120	mg/L		06/14/23 12:32	06/15/23 16:10	1
Chloromethane	<0.000937	U	0.00498	0.000937	mg/L		06/14/23 12:32	06/15/23 16:10	1
Dibromochloromethane	<0.00174	U	0.00498	0.00174	mg/L		06/14/23 12:32	06/15/23 16:10	1
Ethylbenzene	<0.000875	U	0.00498	0.000875	mg/L		06/14/23 12:32	06/15/23 16:10	1
MTBE	<0.00267	U	0.00996	0.00267	mg/L		06/14/23 12:32	06/15/23 16:10	1
Methylene Chloride	<0.000826	U	0.00498	0.000826	mg/L		06/14/23 12:32	06/15/23 16:10	1
Naphthalene	<0.000923	U	0.00498	0.000923	mg/L		06/14/23 12:32	06/15/23 16:10	1
Tetrachloroethene	<0.000896	U	0.00498	0.000896	mg/L		06/14/23 12:32	06/15/23 16:10	1
Toluene	<0.00161	U	0.00498	0.00161	mg/L		06/14/23 12:32	06/15/23 16:10	1
Xylenes, Total	<0.00112	U	0.00498	0.00112	mg/L		06/14/23 12:32	06/15/23 16:10	1
Trichloroethene	<0.00169	U	0.00498	0.00169	mg/L		06/14/23 12:32	06/15/23 16:10	1
Trichlorofluoromethane	<0.00124	U	0.00498	0.00124	mg/L		06/14/23 12:32	06/15/23 16:10	1
Vinyl chloride	<0.000590	U	0.00199	0.000590	mg/L		06/14/23 12:32	06/15/23 16:10	1
cis-1,2-Dichloroethene	<0.000793	U	0.00498	0.000793	mg/L		06/14/23 12:32	06/15/23 16:10	1
cis-1,3-Dichloropropene	<0.000881	U	0.00498	0.000881	mg/L		06/14/23 12:32	06/15/23 16:10	1
m,p-Xylenes	<0.00112	U	0.00498	0.00112	mg/L		06/14/23 12:32	06/15/23 16:10	1
o-Xylene	<0.000486	U	0.00199	0.000486	mg/L		06/14/23 12:32	06/15/23 16:10	1
trans-1,2-Dichloroethene	<0.000899	U	0.00498	0.000899	mg/L		06/14/23 12:32	06/15/23 16:10	1
trans-1,3-Dichloropropene	<0.00195	U	0.00498	0.00195	mg/L		06/14/23 12:32	06/15/23 16:10	1
Trihalomethanes, Total	<1.74	U	4.98	1.74	ug/L		06/14/23 12:32	06/15/23 16:10	1
Vinyl acetate	<0.00168	U	0.00498	0.00168	mg/L		06/14/23 12:32	06/15/23 16:10	1
1,3-Dichloropropene, Total	<0.00195	U	0.00498	0.00195	mg/L		06/14/23 12:32	06/15/23 16:10	1

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 870-13106/27-A
Matrix: Water
Analysis Batch: 13152

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13106

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		76 - 118	06/14/23 12:32	06/15/23 16:10	1
4-Bromofluorobenzene (Surr)	104		76 - 119	06/14/23 12:32	06/15/23 16:10	1
Dibromofluoromethane (Surr)	96		61 - 132	06/14/23 12:32	06/15/23 16:10	1
Toluene-d8 (Surr)	104		74 - 130	06/14/23 12:32	06/15/23 16:10	1

Lab Sample ID: LCS 870-13106/25-A
Matrix: Water
Analysis Batch: 13152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0502	0.05805		mg/L		116	70 - 130
1,1,2,2-Tetrachloroethane	0.0503	0.05301		mg/L		105	70 - 130
1,1,2-Trichloroethane	0.0502	0.05333		mg/L		106	75 - 130
1,1-Dichloroethane	0.0504	0.05605		mg/L		111	71 - 130
1,1-Dichloroethene	0.0502	0.05333		mg/L		106	70 - 130
1,2,4-Trichlorobenzene	0.0503	0.05498		mg/L		109	70 - 130
1,2-Dibromoethane	0.0503	0.05138		mg/L		102	70 - 130
1,2-Dichlorobenzene	0.0502	0.05197		mg/L		104	70 - 130
1,2-Dichloroethane	0.0504	0.05306		mg/L		105	72 - 130
1,2-Dichloropropane	0.0503	0.05493		mg/L		109	70 - 130
1,3-Dichlorobenzene	0.0503	0.05183		mg/L		103	75 - 130
1,4-Dichlorobenzene	0.0503	0.05087		mg/L		101	70 - 130
2-Butanone	0.499	0.6190		mg/L		124	70 - 130
2-Chloroethyl vinyl ether	0.0499	0.05348		mg/L		107	70 - 130
Acetone	0.500	0.6072		mg/L		122	70 - 130
Acrolein	0.497	0.6230		mg/L		125	70 - 130
Acrylonitrile	0.503	0.5391		mg/L		107	70 - 130
Benzene	0.0502	0.05402		mg/L		108	70 - 130
Bromodichloromethane	0.0504	0.05312		mg/L		105	70 - 130
Bromoform	0.0503	0.05481		mg/L		109	70 - 130
Bromomethane	0.0500	0.04800		mg/L		96	70 - 130
Carbon tetrachloride	0.0504	0.05767		mg/L		114	70 - 125
Chlorobenzene	0.0503	0.05247		mg/L		104	70 - 130
Chloroethane	0.0499	0.04650		mg/L		93	70 - 130
Chloroform	0.0504	0.05168		mg/L		103	70 - 121
Chloromethane	0.0499	0.04977		mg/L		100	70 - 130
Dibromochloromethane	0.0502	0.05339		mg/L		106	70 - 130
Ethylbenzene	0.0503	0.05290		mg/L		105	75 - 130
MTBE	0.0502	0.05580		mg/L		111	70 - 130
Methylene Chloride	0.0503	0.04731		mg/L		94	70 - 130
Naphthalene	0.0501	0.05363		mg/L		107	70 - 130
Tetrachloroethene	0.0502	0.05221		mg/L		104	70 - 130
Toluene	0.0504	0.05141		mg/L		102	75 - 130
Trichloroethene	0.0502	0.05440		mg/L		108	75 - 130
Trichlorofluoromethane	0.0499	0.04623		mg/L		93	70 - 130
Vinyl chloride	0.0499	0.04658		mg/L		93	70 - 130
cis-1,2-Dichloroethene	0.0502	0.05872		mg/L		117	70 - 130
cis-1,3-Dichloropropene	0.0504	0.05542		mg/L		110	70 - 130

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 870-13106/25-A

Matrix: Water

Analysis Batch: 13152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
m,p-Xylenes	0.0502	0.05226		mg/L		104	70 - 130
o-Xylene	0.0503	0.05724		mg/L		114	70 - 130
trans-1,2-Dichloroethene	0.0504	0.05078		mg/L		101	70 - 130
trans-1,3-Dichloropropene	0.0503	0.05535		mg/L		110	70 - 130
Vinyl acetate	0.101	0.1170		mg/L		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		76 - 118
4-Bromofluorobenzene (Surr)	101		76 - 119
Dibromofluoromethane (Surr)	97		61 - 132
Toluene-d8 (Surr)	102		74 - 130

Lab Sample ID: LCSD 870-13106/26-A

Matrix: Water

Analysis Batch: 13152

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0501	0.05748		mg/L		115	70 - 130	1	21
1,1,2,2-Tetrachloroethane	0.0502	0.05204		mg/L		104	70 - 130	2	25
1,1,2-Trichloroethane	0.0501	0.05174		mg/L		103	75 - 130	3	25
1,1-Dichloroethane	0.0503	0.05641		mg/L		112	71 - 130	1	24
1,1-Dichloroethene	0.0501	0.05513		mg/L		110	70 - 130	3	25
1,2,4-Trichlorobenzene	0.0502	0.05247		mg/L		104	70 - 130	5	25
1,2-Dibromoethane	0.0502	0.05019		mg/L		100	70 - 130	2	25
1,2-Dichlorobenzene	0.0501	0.04930		mg/L		98	70 - 130	5	25
1,2-Dichloroethane	0.0503	0.05307		mg/L		106	72 - 130	0	25
1,2-Dichloropropane	0.0502	0.05427		mg/L		108	70 - 130	1	25
1,3-Dichlorobenzene	0.0502	0.04969		mg/L		99	75 - 130	4	24
1,4-Dichlorobenzene	0.0502	0.04896		mg/L		98	70 - 130	4	25
2-Butanone	0.498	0.6113		mg/L		123	70 - 130	1	25
2-Chloroethyl vinyl ether	0.0498	0.05406		mg/L		109	70 - 130	1	25
Acetone	0.499	0.5617		mg/L		113	70 - 130	8	25
Acrolein	0.496	0.6186		mg/L		125	70 - 130	1	25
Acrylonitrile	0.502	0.5716		mg/L		114	70 - 130	6	25
Benzene	0.0501	0.05267		mg/L		105	70 - 130	3	25
Bromodichloromethane	0.0503	0.05185		mg/L		103	70 - 130	2	25
Bromoform	0.0502	0.05194		mg/L		104	70 - 130	5	25
Bromomethane	0.0499	0.05333		mg/L		107	70 - 130	11	25
Carbon tetrachloride	0.0503	0.05556		mg/L		111	70 - 125	4	25
Chlorobenzene	0.0502	0.05053		mg/L		101	70 - 130	4	25
Chloroethane	0.0498	0.05147		mg/L		103	70 - 130	10	25
Chloroform	0.0503	0.05218		mg/L		104	70 - 121	1	25
Chloromethane	0.0498	0.05557		mg/L		112	70 - 130	11	25
Dibromochloromethane	0.0501	0.05190		mg/L		104	70 - 130	3	25
Ethylbenzene	0.0502	0.05128		mg/L		102	75 - 130	3	25
MTBE	0.0501	0.05676		mg/L		113	70 - 130	2	25
Methylene Chloride	0.0502	0.04796		mg/L		96	70 - 130	1	25
Naphthalene	0.0500	0.05152		mg/L		103	70 - 130	4	25

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 870-13106/26-A
Matrix: Water
Analysis Batch: 13152

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13106

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene	0.0501	0.05017		mg/L		100	70 - 130	4	23
Toluene	0.0503	0.04999		mg/L		99	75 - 130	3	22
Trichloroethene	0.0501	0.05189		mg/L		104	75 - 130	5	25
Trichlorofluoromethane	0.0498	0.05276		mg/L		106	70 - 130	13	25
Vinyl chloride	0.0498	0.05377		mg/L		108	70 - 130	14	25
cis-1,2-Dichloroethene	0.0501	0.05896		mg/L		119	70 - 130	0	25
cis-1,3-Dichloropropene	0.0503	0.05459		mg/L		109	70 - 130	2	25
m,p-Xylenes	0.0501	0.05057		mg/L		101	70 - 130	3	25
o-Xylene	0.0502	0.05526		mg/L		110	70 - 130	4	25
trans-1,2-Dichloroethene	0.0503	0.05408		mg/L		108	70 - 130	6	25
trans-1,3-Dichloropropene	0.0502	0.05323		mg/L		106	70 - 130	4	25
Vinyl acetate	0.100	0.1079		mg/L		108	70 - 130	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		76 - 118
4-Bromofluorobenzene (Surr)	100		76 - 119
Dibromofluoromethane (Surr)	98		61 - 132
Toluene-d8 (Surr)	100		74 - 130

Lab Sample ID: 870-17931-2 MS
Matrix: Water
Analysis Batch: 13152

Client Sample ID: 2324004-03 (Influent G)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<0.00145	U F1	0.0503	0.08624	F1	mg/L		132	70 - 130
1,1,2,2-Tetrachloroethane	<0.00171	U	0.0504	0.05408		mg/L		107	70 - 130
1,1,2-Trichloroethane	<0.000747	U	0.0503	0.05413		mg/L		108	70 - 130
1,1-Dichloroethane	<0.00103	U	0.0505	0.06396		mg/L		127	70 - 130
1,1-Dichloroethene	<0.000575	U	0.0504	0.06451		mg/L		128	70 - 130
1,2,4-Trichlorobenzene	<0.000593	U	0.0504	0.05579		mg/L		111	70 - 130
1,2-Dibromoethane	<0.000631	U	0.0504	0.05446		mg/L		108	70 - 130
1,2-Dichlorobenzene	<0.000803	U	0.0503	0.05317		mg/L		106	70 - 130
1,2-Dichloroethane	<0.00153	U	0.0505	0.05793		mg/L		115	70 - 130
1,2-Dichloropropane	<0.00155	U	0.0504	0.05905		mg/L		117	70 - 130
1,3-Dichlorobenzene	<0.00108	U	0.0504	0.05405		mg/L		107	70 - 130
1,4-Dichlorobenzene	<0.000637	U	0.0504	0.05484		mg/L		105	70 - 130
2-Butanone	<0.00453	U F1	0.500	0.7549	F1	mg/L		151	70 - 130
2-Chloroethyl vinyl ether	<0.00120	U	0.0500	0.05797		mg/L		116	70 - 130
Acetone	<0.0213	U F1 F2	0.501	0.8990	F1	mg/L		180	70 - 130
Acrolein	<0.0231	U F1 F2	0.498	0.2564	F1	mg/L		52	70 - 130
Acrylonitrile	<0.00780	U	0.504	0.6063		mg/L		120	70 - 130
Benzene	<0.000496	U	0.0503	0.06143		mg/L		122	70 - 130
Bromodichloromethane	0.00134	J	0.0505	0.05617		mg/L		109	70 - 130
Bromoform	<0.00133	U	0.0504	0.05481		mg/L		109	70 - 130
Bromomethane	<0.00188	U	0.0501	0.05535		mg/L		111	70 - 130
Carbon tetrachloride	<0.00126	U	0.0505	0.06099		mg/L		121	70 - 130
Chlorobenzene	<0.000945	U	0.0504	0.05545		mg/L		110	70 - 130
Chloroethane	<0.00145	U	0.0500	0.05311		mg/L		106	70 - 130

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 870-17931-2 MS

Matrix: Water

Analysis Batch: 13152

Client Sample ID: 2324004-03 (Influent G)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	<0.00121	U	0.0505	0.06187		mg/L		123	70 - 130
Chloromethane	<0.000941	U	0.0500	0.05874		mg/L		117	70 - 130
Dibromochloromethane	<0.00175	U	0.0503	0.05548		mg/L		110	70 - 130
Ethylbenzene	<0.000878	U	0.0504	0.05796		mg/L		115	70 - 130
MTBE	<0.00268	U	0.0503	0.05943		mg/L		118	70 - 130
Methylene Chloride	<0.000829	U	0.0504	0.05396		mg/L		107	70 - 130
Naphthalene	<0.000927	U	0.0502	0.05434		mg/L		108	70 - 130
Tetrachloroethene	<0.000900	U	0.0503	0.05998		mg/L		119	70 - 130
Toluene	0.0162		0.0505	0.07366		mg/L		114	70 - 130
Trichloroethene	<0.00189	U	0.0503	0.06305		mg/L		125	70 - 130
Trichlorofluoromethane	<0.00124	U	0.0500	0.05689		mg/L		114	70 - 130
Vinyl chloride	<0.000592	U	0.0500	0.05656		mg/L		113	70 - 130
cis-1,2-Dichloroethene	<0.000796	U F1	0.0503	0.06682	F1	mg/L		133	70 - 130
cis-1,3-Dichloropropene	<0.000885	U	0.0505	0.05863		mg/L		116	70 - 130
m,p-Xylenes	<0.00113	U	0.0503	0.05774		mg/L		115	70 - 130
o-Xylene	<0.000488	U	0.0504	0.06140		mg/L		122	70 - 130
trans-1,2-Dichloroethene	<0.000903	U F1	0.0505	0.06770	F1	mg/L		134	70 - 130
trans-1,3-Dichloropropene	<0.00195	U	0.0504	0.05681		mg/L		113	70 - 130
Vinyl acetate	<0.00169	U	0.101	0.08708		mg/L		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		76 - 118
4-Bromofluorobenzene (Surr)	102		76 - 119
Dibromofluoromethane (Surr)	92		61 - 132
Toluene-d8 (Surr)	100		74 - 130

Lab Sample ID: 870-17931-2 MSD

Matrix: Water

Analysis Batch: 13152

Client Sample ID: 2324004-03 (Influent G)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<0.00145	U F1	0.0503	0.08007		mg/L		119	70 - 130	10	25
1,1,1,2-Tetrachloroethane	<0.00171	U	0.0504	0.05444		mg/L		108	70 - 130	1	25
1,1,2-Trichloroethane	<0.000747	U	0.0503	0.05295		mg/L		105	70 - 130	2	25
1,1-Dichloroethane	<0.00103	U	0.0505	0.05714		mg/L		113	70 - 130	11	25
1,1-Dichloroethene	<0.000575	U	0.0504	0.06269		mg/L		125	70 - 130	3	25
1,2,4-Trichlorobenzene	<0.000593	U	0.0504	0.05831		mg/L		112	70 - 130	1	25
1,2-Dibromoethane	<0.000631	U	0.0504	0.05401		mg/L		107	70 - 130	1	25
1,2-Dichlorobenzene	<0.000603	U	0.0503	0.05288		mg/L		105	70 - 130	1	25
1,2-Dichloroethane	<0.00153	U	0.0505	0.05634		mg/L		112	70 - 130	3	25
1,2-Dichloropropane	<0.00155	U	0.0504	0.05655		mg/L		112	70 - 130	4	25
1,3-Dichlorobenzene	<0.00108	U	0.0504	0.05447		mg/L		108	70 - 130	1	25
1,4-Dichlorobenzene	<0.000637	U	0.0504	0.05590		mg/L		107	70 - 130	2	25
2-Butanone	<0.00453	U F1	0.500	0.6533	F1	mg/L		131	70 - 130	14	25
2-Chloroethyl vinyl ether	<0.00120	U	0.0500	0.05591		mg/L		112	70 - 130	4	25
Acetone	<0.0213	U F1 F2	0.501	0.6505	F2	mg/L		130	70 - 130	32	25
Acrolein	<0.0231	U F1 F2	0.498	0.07824	F1 F2	mg/L		16	70 - 130	106	25
Acrylonitrile	<0.00780	U	0.504	0.5722		mg/L		114	70 - 130	6	25

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 870-17931-2 MSD
Matrix: Water
Analysis Batch: 13152

Client Sample ID: 2324004-03 (Influent G)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000496	U	0.0503	0.05785		mg/L		115	70 - 130	6	25
Bromodichloromethane	0.00134	J	0.0505	0.05539		mg/L		107	70 - 130	1	25
Bromoform	<0.00133	U	0.0504	0.05355		mg/L		106	70 - 130	2	25
Bromomethane	<0.00188	U	0.0501	0.05241		mg/L		105	70 - 130	5	25
Carbon tetrachloride	<0.00126	U	0.0505	0.06146		mg/L		122	70 - 130	1	25
Chlorobenzene	<0.000945	U	0.0504	0.05434		mg/L		109	70 - 130	2	25
Chloroethane	<0.00145	U	0.0500	0.05158		mg/L		103	70 - 130	3	25
Chloroform	<0.00121	U	0.0505	0.05678		mg/L		112	70 - 130	9	25
Chloromethane	<0.000941	U	0.0500	0.05458		mg/L		109	70 - 130	7	25
Dibromochloromethane	<0.00175	U	0.0503	0.05423		mg/L		108	70 - 130	2	25
Ethylbenzene	<0.000878	U	0.0504	0.05664		mg/L		112	70 - 130	2	25
MTBE	<0.00268	U	0.0503	0.05291		mg/L		105	70 - 130	12	25
Methylene Chloride	<0.000829	U	0.0504	0.05066		mg/L		101	70 - 130	6	25
Naphthalene	<0.000927	U	0.0502	0.05493		mg/L		109	70 - 130	1	25
Tetrachloroethene	<0.000900	U	0.0503	0.05770		mg/L		115	70 - 130	4	25
Toluene	0.0162		0.0505	0.07163		mg/L		110	70 - 130	3	25
Trichloroethene	<0.00169	U	0.0503	0.05913		mg/L		118	70 - 130	6	25
Trichlorofluoromethane	<0.00124	U	0.0500	0.04995		mg/L		100	70 - 130	13	25
Vinyl chloride	<0.000592	U	0.0500	0.05256		mg/L		105	70 - 130	7	25
cis-1,2-Dichloroethene	<0.000796	U F1	0.0503	0.06010		mg/L		119	70 - 130	11	25
cis-1,3-Dichloropropene	<0.000885	U	0.0505	0.05656		mg/L		112	70 - 130	4	25
m,p-Xylenes	<0.00113	U	0.0503	0.05604		mg/L		111	70 - 130	3	25
o-Xylene	<0.000488	U	0.0504	0.05916		mg/L		117	70 - 130	4	25
trans-1,2-Dichloroethene	<0.000903	U F1	0.0505	0.06567		mg/L		130	70 - 130	3	25
trans-1,3-Dichloropropene	<0.00195	U	0.0504	0.05593		mg/L		111	70 - 130	2	25
Vinyl acetate	<0.00169	U	0.101	0.08823		mg/L		88	70 - 130	1	25
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		76 - 118								
4-Bromofluorobenzene (Surr)	101		76 - 119								
Dibromofluoromethane (Surr)	98		61 - 132								
Toluene-d8 (Surr)	103		74 - 130								

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-108515/1-A
Matrix: Water
Analysis Batch: 108623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<1.32	U	10.0	1.32	ug/L		06/19/23 14:59	06/20/23 11:15	1
Acenaphthene	<1.39	U	5.70	1.39	ug/L		06/19/23 14:59	06/20/23 11:15	1
Acenaphthylene	<1.41	U	10.0	1.41	ug/L		06/19/23 14:59	06/20/23 11:15	1
Anthracene	<1.50	U	5.70	1.50	ug/L		06/19/23 14:59	06/20/23 11:15	1
Benzidine	<4.80	U	20.0	4.80	ug/L		06/19/23 14:59	06/20/23 11:15	1
Benzo[a]anthracene	<0.173	U	5.00	0.173	ug/L		06/19/23 14:59	06/20/23 11:15	1
Benzo[a]pyrene	<0.364	U	5.00	0.364	ug/L		06/19/23 14:59	06/20/23 11:15	1
Benzo[b]fluoranthene	<2.04	U	10.0	2.04	ug/L		06/19/23 14:59	06/20/23 11:15	1
Benzo[g,h,i]perylene	<2.68	U	10.0	2.68	ug/L		06/19/23 14:59	06/20/23 11:15	1

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-108515/1-A
Matrix: Water
Analysis Batch: 108623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<0.375	U	5.00	0.375	ug/L		06/19/23 14:59	06/20/23 11:15	1
Butyl benzyl phthalate	<0.337	U	5.00	0.337	ug/L		06/19/23 14:59	06/20/23 11:15	1
Bis(2-chloroethyl)ether	<2.16	U	10.0	2.16	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4,5-Trichlorophenol	<2.00	U	10.0	2.00	ug/L		06/19/23 14:59	06/20/23 11:15	1
Bis(2-chloroethoxy)methane	<1.76	U	10.0	1.76	ug/L		06/19/23 14:59	06/20/23 11:15	1
Bis(2-ethylhexyl) phthalate	<0.277	U	5.00	0.277	ug/L		06/19/23 14:59	06/20/23 11:15	1
4-Chlorophenyl phenyl ether	<1.28	U	10.0	1.28	ug/L		06/19/23 14:59	06/20/23 11:15	1
4-Bromophenyl phenyl ether	<0.256	U	5.00	0.256	ug/L		06/19/23 14:59	06/20/23 11:15	1
2-Chloronaphthalene	<0.462	U	5.00	0.462	ug/L		06/19/23 14:59	06/20/23 11:15	1
Chrysene	<0.222	U	5.00	0.222	ug/L		06/19/23 14:59	06/20/23 11:15	1
Dibenz(a,h)anthracene	<0.246	U	5.00	0.246	ug/L		06/19/23 14:59	06/20/23 11:15	1
Diethyl phthalate	<1.59	U	5.00	1.59	ug/L		06/19/23 14:59	06/20/23 11:15	1
Dimethyl phthalate	<0.299	U	2.50	0.299	ug/L		06/19/23 14:59	06/20/23 11:15	1
Di-n-butyl phthalate	<0.252	U	5.00	0.252	ug/L		06/19/23 14:59	06/20/23 11:15	1
2-Methylphenol	<0.00162	U	0.0100	0.00162	mg/L		06/19/23 14:59	06/20/23 11:15	1
3 & 4 Methylphenol	<0.00262	U	0.0100	0.00262	mg/L		06/19/23 14:59	06/20/23 11:15	1
3,3'-Dichlorobenzidine	<0.341	U	5.00	0.341	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4-Dinitrotoluene	<1.31	U	10.0	1.31	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,6-Dinitrotoluene	<1.61	U	5.00	1.61	ug/L		06/19/23 14:59	06/20/23 11:15	1
Azobenzene	<1.50	U	10.0	1.50	ug/L		06/19/23 14:59	06/20/23 11:15	1
Fluoranthene	<1.59	U	5.00	1.59	ug/L		06/19/23 14:59	06/20/23 11:15	1
Fluorene	<1.63	U	5.00	1.63	ug/L		06/19/23 14:59	06/20/23 11:15	1
Hexachlorobenzene	<0.307	U	5.00	0.307	ug/L		06/19/23 14:59	06/20/23 11:15	1
Hexachlorobutadiene	<0.238	U	1.00	0.238	ug/L		06/19/23 14:59	06/20/23 11:15	1
Hexachlorocyclopentadiene	<4.58	U	10.0	4.58	ug/L		06/19/23 14:59	06/20/23 11:15	1
Hexachloroethane	<0.526	U	4.80	0.526	ug/L		06/19/23 14:59	06/20/23 11:15	1
Indeno[1,2,3-cd]pyrene	<2.29	U	5.00	2.29	ug/L		06/19/23 14:59	06/20/23 11:15	1
Isophorone	<1.64	U	5.00	1.64	ug/L		06/19/23 14:59	06/20/23 11:15	1
Naphthalene	<0.542	U	2.50	0.542	ug/L		06/19/23 14:59	06/20/23 11:15	1
Nitrobenzene	<1.66	U	5.00	1.66	ug/L		06/19/23 14:59	06/20/23 11:15	1
N-Nitrosodimethylamine	<2.02	U	10.0	2.02	ug/L		06/19/23 14:59	06/20/23 11:15	1
Phenanthrene	<1.42	U	10.0	1.42	ug/L		06/19/23 14:59	06/20/23 11:15	1
Pyrene	<0.178	U	5.00	0.178	ug/L		06/19/23 14:59	06/20/23 11:15	1
1,2,4-Trichlorobenzene	<0.00161	U	0.00500	0.00161	mg/L		06/19/23 14:59	06/20/23 11:15	1
2-Chlorophenol	<0.649	U	5.00	0.649	ug/L		06/19/23 14:59	06/20/23 11:15	1
4-Chloro-3-methylphenol	<1.57	U	5.00	1.57	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4-Dichlorophenol	<0.314	U	5.00	0.314	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4-Dimethylphenol	<0.649	U	5.00	0.649	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4-Dinitrophenol	<0.499	U	10.0	0.499	ug/L		06/19/23 14:59	06/20/23 11:15	1
2-Nitrophenol	<1.67	U	10.0	1.67	ug/L		06/19/23 14:59	06/20/23 11:15	1
4-Nitrophenol	<4.91	U	7.20	4.91	ug/L		06/19/23 14:59	06/20/23 11:15	1
Pentachlorophenol	<0.000234	U	0.0100	0.000234	mg/L		06/19/23 14:59	06/20/23 11:15	1
Phenol	<0.423	U	4.50	0.423	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,4,6-Trichlorophenol	<1.42	U	5.00	1.42	ug/L		06/19/23 14:59	06/20/23 11:15	1
Di-n-octyl phthalate	<0.373	U	5.00	0.373	ug/L		06/19/23 14:59	06/20/23 11:15	1
N-Nitrosodi-n-propylamine	<2.88	U	10.0	2.88	ug/L		06/19/23 14:59	06/20/23 11:15	1
N-Nitrosodiphenylamine	<1.81	U	10.0	1.81	ug/L		06/19/23 14:59	06/20/23 11:15	1
2,2'-oxybis[1-chloropropane]	<1.79	U	10.0	1.79	ug/L		06/19/23 14:59	06/20/23 11:15	1
4,6-Dinitro-2-methylphenol	<1.44	U	10.0	1.44	ug/L		06/19/23 14:59	06/20/23 11:15	1

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-108515/1-A
Matrix: Water
Analysis Batch: 108623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	<1.49	U	10.0	1.49	ug/L		06/19/23 14:59	06/20/23 11:15	1
N-Nitrosodi-n-butylamine	<1.49	U	10.0	1.49	ug/L		06/19/23 14:59	06/20/23 11:15	1
N-Nitrosodiethylamine	<1.75	U	10.0	1.75	ug/L		06/19/23 14:59	06/20/23 11:15	1
4-Nonylphenol	<10.0	U	10.0	10.0	ug/L		06/19/23 14:59	06/20/23 11:15	1
Pentachlorobenzene	<1.07	U	10.0	1.07	ug/L		06/19/23 14:59	06/20/23 11:15	1
Pyridine	<2.64	U	10.0	2.64	ug/L		06/19/23 14:59	06/20/23 11:15	1
Total Cresols	<2.62	U	10.0	2.62	ug/L		06/19/23 14:59	06/20/23 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	109		31 - 132	06/19/23 14:59	06/20/23 11:15	1
2-Fluorobiphenyl (Surr)	96		29 - 112	06/19/23 14:59	06/20/23 11:15	1
2-Fluorophenol (Surr)	59		28 - 114	06/19/23 14:59	06/20/23 11:15	1
Nitrobenzene-d5 (Surr)	96		15 - 314	06/19/23 14:59	06/20/23 11:15	1
p-Terphenyl-d14 (Surr)	118		20 - 141	06/19/23 14:59	06/20/23 11:15	1
Phenol-d5 (Surr)	42		8 - 424	06/19/23 14:59	06/20/23 11:15	1

Lab Sample ID: LCS 860-108515/2-A
Matrix: Water
Analysis Batch: 108623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	29.69		ug/L		74	41 - 125
Acenaphthene	40.0	32.36		ug/L		81	60 - 132
Acenaphthylene	40.0	33.01		ug/L		83	54 - 126
Anthracene	40.0	36.04		ug/L		90	43 - 120
Benidine	40.0	19.45	J	ug/L		49	25 - 125
Benzo[a]anthracene	40.0	37.89		ug/L		95	42 - 133
Benzo[a]pyrene	40.0	40.91		ug/L		102	32 - 148
Benzo[b]fluoranthene	40.0	36.84		ug/L		92	42 - 140
Benzo[g,h,i]perylene	40.0	39.22		ug/L		98	13 - 195
Benzo[k]fluoranthene	40.0	39.59		ug/L		99	25 - 146
Butyl benzyl phthalate	40.0	40.94		ug/L		102	12 - 140
Bis(2-chloroethyl)ether	40.0	30.12		ug/L		75	43 - 126
2,4,5-Trichlorophenol	40.0	38.82		ug/L		97	35 - 111
Bis(2-chloroethoxy)methane	40.0	31.30		ug/L		78	49 - 165
Bis(2-ethylhexyl) phthalate	40.0	42.65		ug/L		107	29 - 137
4-Chlorophenyl phenyl ether	40.0	34.15		ug/L		85	38 - 145
4-Bromophenyl phenyl ether	40.0	38.99		ug/L		97	65 - 120
2-Chloronaphthalene	40.0	27.66		ug/L		69	65 - 120
Chrysene	40.0	36.53		ug/L		91	44 - 140
Dibenz(a,h)anthracene	40.0	39.36		ug/L		98	16 - 200
Diethyl phthalate	40.0	35.18		ug/L		88	17 - 120
Dimethyl phthalate	40.0	34.71		ug/L		87	25 - 120
Di-n-butyl phthalate	40.0	35.96		ug/L		90	8 - 120
2-Methylphenol	0.0400	0.02527		mg/L		63	14 - 176
3 & 4 Methylphenol	0.0400	0.02431		mg/L		61	14 - 176
3,3'-Dichlorobenzidine	40.0	41.54		ug/L		104	18 - 213
2,4-Dinitrotoluene	40.0	37.19		ug/L		93	48 - 127

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-108515/2-A

Matrix: Water

Analysis Batch: 108623

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108515

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-Dinitrotoluene	40.0	35.45		ug/L		89	68 - 137
Azobenzene	40.0	33.25		ug/L		83	28 - 136
Fluoranthene	40.0	35.30		ug/L		88	43 - 121
Fluorene	40.0	33.26		ug/L		83	70 - 120
Hexachlorobenzene	40.0	36.92		ug/L		92	8 - 142
Hexachlorobutadiene	40.0	25.21		ug/L		63	39 - 120
Hexachlorocyclopentadiene	40.0	31.70		ug/L		79	41 - 125
Hexachloroethane	40.0	21.76		ug/L		54	55 - 120
Indeno[1,2,3-cd]pyrene	40.0	38.33		ug/L		96	13 - 151
Isophorone	40.0	30.01		ug/L		75	47 - 180
Naphthalene	40.0	27.36		ug/L		68	36 - 120
Nitrobenzene	40.0	28.93		ug/L		72	54 - 158
N-Nitrosodimethylamine	40.0	17.15		ug/L		43	20 - 125
Phenanthrene	40.0	34.93		ug/L		87	65 - 120
Pyrene	40.0	38.63		ug/L		97	70 - 120
1,2,4-Trichlorobenzene	0.0400	0.02668		mg/L		67	57 - 130
2-Chlorophenol	40.0	28.02		ug/L		70	36 - 120
4-Chloro-3-methylphenol	40.0	31.67		ug/L		79	41 - 128
2,4-Dichlorophenol	40.0	32.60		ug/L		81	52 - 122
2,4-Dimethylphenol	40.0	29.32		ug/L		73	42 - 120
2,4-Dinitrophenol	40.0	35.96		ug/L		90	12 - 173
2-Nitrophenol	40.0	32.71		ug/L		82	45 - 167
4-Nitrophenol	40.0	18.61		ug/L		47	13 - 129
Pentachlorophenol	0.0400	0.04066		mg/L		102	38 - 152
Phenol	40.0	16.33		ug/L		41	17 - 120
2,4,6-Trichlorophenol	40.0	35.71		ug/L		89	52 - 129
Di-n-octyl phthalate	40.0	40.48		ug/L		101	19 - 132
N-Nitrosodi-n-propylamine	40.0	29.71		ug/L		74	14 - 198
N-Nitrosodiphenylamine	40.0	34.78		ug/L		87	2 - 196
2,2'-oxybis[1-chloropropane]	40.0	27.25		ug/L		68	63 - 139
4,6-Dinitro-2-methylphenol	40.0	38.42		ug/L		96	53 - 130
1,2-Diphenylhydrazine	40.0	33.25		ug/L		83	28 - 136
N-Nitrosodi-n-butylamine	40.0	29.22		ug/L		73	33 - 141
N-Nitrosodiethylamine	40.0	30.03		ug/L		75	30 - 160
Pentachlorobenzene	40.0	33.82		ug/L		85	25 - 131
Pyridine	40.0	10.63		ug/L		27	5 - 94

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	106		31 - 132
2-Fluorobiphenyl (Surr)	88		29 - 112
2-Fluorophenol (Surr)	52		28 - 114
Nitrobenzene-d5 (Surr)	82		15 - 314
p-Terphenyl-d14 (Surr)	113		20 - 141
Phenol-d5 (Surr)	39		8 - 424

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-108515/3-A

Matrix: Water

Analysis Batch: 108623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108515

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	40.0	29.82		ug/L		75	41 - 125	0	30
Acenaphthene	40.0	33.18		ug/L		83	60 - 132	3	29
Acenaphthylene	40.0	33.85		ug/L		85	54 - 126	2	30
Anthracene	40.0	35.84		ug/L		90	43 - 120	1	30
Benzidine	40.0	11.35	J *1	ug/L		28	25 - 125	53	30
Benzo[a]anthracene	40.0	36.76		ug/L		92	42 - 133	3	30
Benzo[a]pyrene	40.0	38.16		ug/L		95	32 - 148	7	30
Benzo[b]fluoranthene	40.0	36.59		ug/L		91	42 - 140	1	30
Benzo[g,h,i]perylene	40.0	37.07		ug/L		93	13 - 195	6	30
Benzo[k]fluoranthene	40.0	37.94		ug/L		95	25 - 146	4	30
Butyl benzyl phthalate	40.0	39.08		ug/L		98	12 - 140	5	30
Bis(2-chloroethyl)ether	40.0	27.59		ug/L		69	43 - 126	9	30
2,4,5-Trichlorophenol	40.0	38.20		ug/L		96	35 - 111	2	30
Bis(2-chloroethoxy)methane	40.0	30.95		ug/L		77	49 - 165	1	30
Bis(2-ethylhexyl) phthalate	40.0	41.22		ug/L		103	29 - 137	3	30
4-Chlorophenyl phenyl ether	40.0	35.25		ug/L		88	38 - 145	3	30
4-Bromophenyl phenyl ether	40.0	39.31		ug/L		98	65 - 120	1	26
2-Chloronaphthalene	40.0	29.39		ug/L		73	65 - 120	6	15
Chrysene	40.0	37.15		ug/L		93	44 - 140	2	30
Dibenz(a,h)anthracene	40.0	37.08		ug/L		93	16 - 200	6	30
Diethyl phthalate	40.0	35.98		ug/L		90	17 - 120	2	30
Dimethyl phthalate	40.0	35.08		ug/L		88	25 - 120	1	30
Di-n-butyl phthalate	40.0	38.62		ug/L		97	8 - 120	7	28
2-Methylphenol	0.0400	0.02321		mg/L		58	14 - 176	8	30
3 & 4 Methylphenol	0.0400	0.02476		mg/L		62	14 - 176	2	30
3,3'-Dichlorobenzidine	40.0	40.10		ug/L		100	18 - 213	4	30
2,4-Dinitrotoluene	40.0	37.63		ug/L		94	48 - 127	1	25
2,6-Dinitrotoluene	40.0	36.69		ug/L		92	68 - 137	3	29
Azobenzene	40.0	33.78		ug/L		84	28 - 136	2	30
Fluoranthene	40.0	35.84		ug/L		90	43 - 121	2	30
Fluorene	40.0	34.32		ug/L		86	70 - 120	3	23
Hexachlorobenzene	40.0	37.34		ug/L		93	8 - 142	1	30
Hexachlorobutadiene	40.0	24.67		ug/L		62	38 - 120	2	30
Hexachlorocyclopentadiene	40.0	31.50		ug/L		79	41 - 125	1	30
Hexachloroethane	40.0	19.32		ug/L		48	55 - 120	12	30
Indeno[1,2,3-cd]pyrene	40.0	29.39		ug/L		73	13 - 151	26	30
Isophorone	40.0	31.06		ug/L		78	47 - 180	3	30
Naphthalene	40.0	26.70		ug/L		67	36 - 120	2	30
Nitrobenzene	40.0	27.87		ug/L		70	54 - 158	4	30
N-Nitrosodimethylamine	40.0	13.60		ug/L		34	20 - 125	23	30
Phenanthrene	40.0	36.15		ug/L		90	65 - 120	3	30
Pyrene	40.0	38.38		ug/L		96	70 - 120	1	30
1,2,4-Trichlorobenzene	0.0400	0.02545		mg/L		64	57 - 130	5	30
2-Chlorophenol	40.0	26.54		ug/L		66	36 - 120	5	30
4-Chloro-3-methylphenol	40.0	33.56		ug/L		84	41 - 128	6	30
2,4-Dichlorophenol	40.0	32.93		ug/L		82	52 - 122	1	30
2,4-Dimethylphenol	40.0	29.86		ug/L		75	42 - 120	2	30
2,4-Dinitrophenol	40.0	41.11		ug/L		103	12 - 173	13	30

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-108515/3-A
Matrix: Water
Analysis Batch: 108623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108515

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitrophenol	40.0	35.54		ug/L		89	45 - 167	8	30
4-Nitrophenol	40.0	18.04		ug/L		45	13 - 129	3	30
Pentachlorophenol	0.0400	0.04222		mg/L		106	38 - 152	4	30
Phenol	40.0	15.99		ug/L		40	17 - 120	2	30
2,4,6-Trichlorophenol	40.0	35.82		ug/L		90	52 - 129	0	30
Di-n-octyl phthalate	40.0	38.71		ug/L		97	19 - 132	4	30
N-Nitrosodi-n-propylamine	40.0	30.07		ug/L		75	14 - 198	1	30
N-Nitrosodiphenylamine	40.0	38.00		ug/L		95	2 - 196	9	30
2,2'-oxybis[1-chloropropane]	40.0	25.10		ug/L		63	63 - 139	8	30
4,6-Dinitro-2-methylphenol	40.0	40.92		ug/L		102	53 - 130	6	30
1,2-Diphenylhydrazine	40.0	33.78		ug/L		84	28 - 136	2	30
N-Nitrosodi-n-butylamine	40.0	31.00		ug/L		77	33 - 141	6	30
N-Nitrosodiethylamine	40.0	29.15		ug/L		73	30 - 160	3	30
Pentachlorobenzene	40.0	33.63		ug/L		84	25 - 131	1	30
Pyridine	40.0	6.375	J *1	ug/L		16	5 - 94	50	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	110		31 - 132
2-Fluorobiphenyl (Surr)	92		29 - 112
2-Fluorophenol (Surr)	47		28 - 114
Nitrobenzene-d5 (Surr)	80		15 - 314
p-Terphenyl-d14 (Surr)	112		20 - 141
Phenol-d5 (Surr)	37		8 - 424

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-108599/1-A
Matrix: Water
Analysis Batch: 108612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00113	U	0.0100	0.00113	ug/L		06/20/23 07:13	06/20/23 12:42	1
alpha-BHC	<0.00142	U	0.00900	0.00142	ug/L		06/20/23 07:13	06/20/23 12:42	1
beta-BHC	<0.00389	U	0.0180	0.00389	ug/L		06/20/23 07:13	06/20/23 12:42	1
delta-BHC	<0.00245	U	0.250	0.00245	ug/L		06/20/23 07:13	06/20/23 12:42	1
gamma-BHC (Lindane)	<0.00299	U	0.0100	0.00299	ug/L		06/20/23 07:13	06/20/23 12:42	1
4,4'-DDD	<0.000814	U	0.0100	0.000814	ug/L		06/20/23 07:13	06/20/23 12:42	1
4,4'-DDE	<0.00109	U	0.0100	0.00109	ug/L		06/20/23 07:13	06/20/23 12:42	1
4,4'-DDT	<0.00379	U	0.0200	0.00379	ug/L		06/20/23 07:13	06/20/23 12:42	1
Dieldrin	<0.000953	U	0.0100	0.000953	ug/L		06/20/23 07:13	06/20/23 12:42	1
Endosulfan I	<0.00107	U	0.0100	0.00107	ug/L		06/20/23 07:13	06/20/23 12:42	1
Endosulfan II	<0.00122	U	0.0100	0.00122	ug/L		06/20/23 07:13	06/20/23 12:42	1
Endosulfan sulfate	<0.00112	U	0.0100	0.00112	ug/L		06/20/23 07:13	06/20/23 12:42	1
Endrin	<0.00156	U	0.0100	0.00156	ug/L		06/20/23 07:13	06/20/23 12:42	1
Endrin aldehyde	<0.00118	U	0.0100	0.00118	ug/L		06/20/23 07:13	06/20/23 12:42	1
Dicofol	<0.0000500	U	0.000100	0.0000500	mg/L		06/20/23 07:13	06/20/23 12:42	1
Heptachlor	<0.00446	U	0.00900	0.00446	ug/L		06/20/23 07:13	06/20/23 12:42	1
Heptachlor epoxide	<0.00134	U	0.0100	0.00134	ug/L		06/20/23 07:13	06/20/23 12:42	1
Toxaphene	<0.0769	U	0.100	0.0769	ug/L		06/20/23 07:13	06/20/23 12:42	1

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 860-108599/1-A

Matrix: Water

Analysis Batch: 108612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	<0.103	U	0.0400	0.103	ug/L		06/20/23 07:13	06/20/23 12:42	1
Methoxychlor	<0.00000390	U	0.0000200	0.0000039	mg/L		06/20/23 07:13	06/20/23 12:42	1
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		06/20/23 07:13	06/20/23 12:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	110		15 - 136				06/20/23 07:13	06/20/23 12:42	1
Tetrachloro-m-xylene	91		18 - 126				06/20/23 07:13	06/20/23 12:42	1

Lab Sample ID: LCS 860-108599/2-A

Matrix: Water

Analysis Batch: 108612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.100	0.1250		ug/L		125	42 - 140
alpha-BHC	0.100	0.1162		ug/L		116	37 - 140
beta-BHC	0.100	0.1368		ug/L		137	17 - 147
delta-BHC	0.100	0.1016	J	ug/L		102	19 - 140
gamma-BHC (Lindane)	0.100	0.1176		ug/L		118	34 - 140
4,4'-DDD	0.100	0.1297		ug/L		130	31 - 141
4,4'-DDE	0.100	0.1208		ug/L		121	30 - 145
4,4'-DDT	0.100	0.1233		ug/L		123	25 - 160
Dieldrin	0.100	0.1241		ug/L		124	36 - 146
Endosulfan I	0.100	0.1302		ug/L		130	45 - 153
Endosulfan II	0.100	0.1255		ug/L		126	22 - 171
Endosulfan sulfate	0.100	0.1187		ug/L		119	26 - 144
Endrin	0.100	0.1214		ug/L		121	30 - 147
Endrin aldehyde	0.100	0.08564		ug/L		86	60 - 130
Heptachlor	0.100	0.1202		ug/L		120	34 - 140
Heptachlor epoxide	0.100	0.1230		ug/L		123	37 - 142
Methoxychlor	0.000100	0.0001204		mg/L		120	50 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	113		15 - 136				
Tetrachloro-m-xylene	90		18 - 126				

Lab Sample ID: LCSD 860-108599/3-A

Matrix: Water

Analysis Batch: 108612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aldrin	0.100	0.1263		ug/L		126	42 - 140	1	30
alpha-BHC	0.100	0.1130		ug/L		113	37 - 140	3	30
beta-BHC	0.100	0.1616	+	ug/L		162	17 - 147	17	30
delta-BHC	0.100	0.09858	J	ug/L		99	19 - 140	3	30
gamma-BHC (Lindane)	0.100	0.1152		ug/L		115	34 - 140	2	30
4,4'-DDD	0.100	0.1288		ug/L		129	31 - 141	1	30
4,4'-DDE	0.100	0.1200		ug/L		120	30 - 145	1	30

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCSD 860-108599/3-A
Matrix: Water
Analysis Batch: 108612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
4,4'-DDT	0.100	0.1205		ug/L		121	25 - 160	2	30	
Dieldrin	0.100	0.1221		ug/L		122	36 - 146	2	30	
Endosulfan I	0.100	0.1262		ug/L		126	45 - 153	3	30	
Endosulfan II	0.100	0.1234		ug/L		123	22 - 171	2	30	
Endosulfan sulfate	0.100	0.1168		ug/L		117	26 - 144	2	30	
Endrin	0.100	0.1194		ug/L		119	30 - 147	2	30	
Endrin aldehyde	0.100	0.07587		ug/L		76	60 - 130	14	30	
Heptachlor	0.100	0.1191		ug/L		119	34 - 140	1	30	
Heptachlor epoxide	0.100	0.1195		ug/L		120	37 - 142	3	30	
Methoxychlor	0.000100	0.0001186		mg/L		119	50 - 130	2	30	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	107		15 - 136
Tetrachloro-m-xylene	85		18 - 126

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-108599/1-A
Matrix: Water
Analysis Batch: 108615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108599

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		06/20/23 07:13	06/20/23 13:16	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		06/20/23 07:13	06/20/23 13:16	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		06/20/23 07:13	06/20/23 13:16	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	86		18 - 126	06/20/23 07:13	06/20/23 13:16	1
DCB Decachlorobiphenyl (Surr)	127		15 - 136	06/20/23 07:13	06/20/23 13:16	1

Lab Sample ID: LCS 860-108599/4-A
Matrix: Water
Analysis Batch: 108615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
PCB-1016	1.00	0.9539		ug/L		95	61 - 103	
PCB-1260	1.00	0.9212		ug/L		92	37 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	85		18 - 126
DCB Decachlorobiphenyl (Surr)	123		15 - 136

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 860-108599/5-A

Matrix: Water

Analysis Batch: 108615

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 108599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	1.00	0.9683		ug/L		97	61 - 103	1	24
PCB-1260	1.00	0.9533		ug/L		95	37 - 130	3	28
Surrogate									
		LCSD	LCSD						
		%Recovery	Qualifier						
Tetrachloro-m-xylene		86							
DCB Decachlorobiphenyl (Surr)		128							
			Limits						
			18 - 126						
			15 - 136						

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-108342/1-A

Matrix: Water

Analysis Batch: 108383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000549	U	0.000204	0.0000549	mg/L		06/18/23 13:42	06/19/23 15:57	1
Hexachlorophene	<0.000823	U	0.00509	0.000823	mg/L		06/18/23 13:42	06/19/23 15:57	1
Silvex (2,4,5-TP)	<0.0000430	U	0.000204	0.0000430	mg/L		06/18/23 13:42	06/19/23 15:57	1
Dalapon	<0.0000485	U	0.000204	0.0000485	mg/L		06/18/23 13:42	06/19/23 15:57	1
Dicamba	<0.0000431	U	0.000204	0.0000431	mg/L		06/18/23 13:42	06/19/23 15:57	1
Dinoseb	<0.0000349	U	0.000204	0.0000349	mg/L		06/18/23 13:42	06/19/23 15:57	1
Pentachlorophenol	<0.0000451	U	0.000204	0.0000451	mg/L		06/18/23 13:42	06/19/23 15:57	1
Surrogate									
		MB	MB						
		%Recovery	Qualifier						
2,4-Dichlorophenylacetic acid		125							
			Limits						
			45 - 150						
							Prepared	Analyzed	Dil Fac
							06/18/23 13:42	06/19/23 15:57	1

Lab Sample ID: LCS 860-108342/2-A

Matrix: Water

Analysis Batch: 108383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.00204	0.002115		mg/L		103	55 - 145
Silvex (2,4,5-TP)	0.00204	0.002282		mg/L		112	55 - 140
Dalapon	0.00204	0.001832		mg/L		90	50 - 150
Dicamba	0.00204	0.002097		mg/L		103	55 - 135
Dinoseb	0.00204	<0.0000351	U	mg/L		0.3	20 - 100
Pentachlorophenol	0.00204	0.001878		mg/L		92	50 - 135
Surrogate							
		LCS	LCS				
		%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid		141					
			Limits				
			45 - 150				

Lab Sample ID: LCS 860-108342/4-A

Matrix: Water

Analysis Batch: 108383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorophene	0.00806	0.005671		mg/L		70	60 - 135

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-108342/4-A
Matrix: Water
Analysis Batch: 108383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108342

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	128		45 - 150

Lab Sample ID: LCSD 860-108342/3-A
Matrix: Water
Analysis Batch: 108383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108342

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	0.00204	0.002323		mg/L		114	55 - 145	9	25
Silvex (2,4,5-TP)	0.00204	0.002397		mg/L		117	55 - 140	5	25
Dalapon	0.00204	0.001948		mg/L		95	50 - 150	6	25
Dicamba	0.00204	0.002211		mg/L		108	55 - 135	5	25
Dinoseb	0.00204	<0.0000351	U *	mg/L		0.3	20 - 100	8	25
Pentachlorophenol	0.00204	0.001968		mg/L		96	50 - 135	5	25
Surrogate		LCSD	LCSD						
	%Recovery	Qualifier	Limits						
2,4-Dichlorophenylacetic acid	140		45 - 150						

Lab Sample ID: LCSD 860-108342/5-A
Matrix: Water
Analysis Batch: 108383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108342

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorophene	0.00816	0.006014		mg/L		74	60 - 135	6	25
Surrogate		LCSD	LCSD						
	%Recovery	Qualifier	Limits						
2,4-Dichlorophenylacetic acid	138		45 - 150						

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-109837/1-A
Matrix: Water
Analysis Batch: 110977

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		06/27/23 15:30	07/06/23 17:38	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		06/27/23 15:30	07/06/23 17:38	1

Lab Sample ID: LCS 860-109837/12-A
Matrix: Water
Analysis Batch: 110977

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Carbaryl	100	102.2		ug/L		102	70 - 130		
Diuron	2.00	2.470		ug/L		123	70 - 130		

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 632 - Carbamate and Urea Pesticides (HPLC) (Continued)

Lab Sample ID: LCSD 860-109837/13-A
Matrix: Water
Analysis Batch: 110977

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	106.3		ug/L		106	70 - 130	4	20
Diuron	2.00	2.080		ug/L		104	70 - 130	17	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 860-109547/1-A
Matrix: Water
Analysis Batch: 109760

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 109547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr	0.0003410	J	0.00300	0.000325	mg/L		06/26/23 11:30	06/27/23 00:25	1

Lab Sample ID: LCS 860-109547/2-A
Matrix: Water
Analysis Batch: 109760

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 109547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr	0.100	0.09469		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-109547/3-A
Matrix: Water
Analysis Batch: 109760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 109547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr	0.100	0.09511		mg/L		95	85 - 115	0	20

Lab Sample ID: LLCS 860-109547/4-A
Matrix: Water
Analysis Batch: 109760

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 109547

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr	0.00400	0.003402		mg/L		85	50 - 150

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 860-109534/31-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:13	06/26/23 16:16	1
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:13	06/26/23 16:16	1

Lab Sample ID: MB 860-109534/37-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:19	06/26/23 16:23	1

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: MB 860-109534/44-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:19	06/26/23 16:30	1
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:19	06/26/23 16:30	1

Lab Sample ID: MB 860-109534/4-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:11	06/26/23 15:52	1
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		06/26/23 11:11	06/26/23 15:52	1

Lab Sample ID: LCS 860-109534/38-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	95.72		ug/L		96	90 - 110

Lab Sample ID: LCS 860-109534/45-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	95.51		ug/L		96	90 - 110
Cyanide, Total	100	95.51		ug/L		96	90 - 110

Lab Sample ID: LCS 860-109534/5-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	91.56		ug/L		92	90 - 110
Cyanide, Total	100	91.56		ug/L		92	90 - 110

Lab Sample ID: LCSD 860-109534/33-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	97.31		ug/L		97	90 - 110	2	20
Cyanide, Total	100	97.31		ug/L		97	90 - 110	2	20

Lab Sample ID: LCSD 860-109534/39-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	95.21		ug/L		95	90 - 110	1	20

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QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCSD 860-109534/46-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	96.91		ug/L		97	90 - 110	1	20
Cyanide, Total	100	96.91		ug/L		97	90 - 110	1	20

Lab Sample ID: LLCS 860-109534/6-A
Matrix: Water
Analysis Batch: 109624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	5.00	4.540	J	ug/L		91	50 - 150		
Cyanide, Total	5.00	4.540	J	ug/L		91	50 - 150		

Lab Sample ID: 870-17931-2 DU
Matrix: Water
Analysis Batch: 109624

Client Sample ID: 2324004-03 (Influent G)
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	5.26		4.577	J	ug/L		91	50 - 150	14	20
Cyanide, Total	2.55	J	4.577	J F5	ug/L				57	20

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-109019/15
Matrix: Water
Analysis Batch: 109019

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<5.80	U	10.0	5.80	ug/L			06/21/23 16:41	1

Lab Sample ID: LCS 860-109019/16
Matrix: Water
Analysis Batch: 109019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	100	104.3		ug/L		104	90 - 110		

Lab Sample ID: LCSD 860-109019/17
Matrix: Water
Analysis Batch: 109019

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total	100	106.7		ug/L		107	90 - 110	2	20

Method: 4500 CN G NonAm - Cyanide, Non-amenable

Lab Sample ID: MB 860-109534/44-A
Matrix: Water
Analysis Batch: 109625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Non-amenable	<2.33	U	5.00	2.33	ug/L		06/26/23 11:19	06/26/23 16:30	1

Eurofins Dallas

QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 4500 CN G NonAm - Cyanide, Non-amenable (Continued)

Lab Sample ID: LCS 860-109534/45-A
Matrix: Water
Analysis Batch: 109625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Non-amenable	100	95.51		ug/L		96	90 - 110

Lab Sample ID: LCSD 860-109534/46-A
Matrix: Water
Analysis Batch: 109625

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Non-amenable	100	96.91		ug/L		97	90 - 110	1	20

Lab Sample ID: 870-17931-2 DU
Matrix: Water
Analysis Batch: 109625

Client Sample ID: 2324004-03 (Influent G)
Prep Type: Total/NA
Prep Batch: 109534

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cyanide, Non-amenable	5.26		4.577	J	ug/L		14	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 870-13168/9
Matrix: Water
Analysis Batch: 13168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<2.80	U	10.0	2.80	ug/L			06/15/23 16:33	1

Lab Sample ID: LCS 870-13168/10
Matrix: Water
Analysis Batch: 13168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	499	499.6		ug/L		100	80 - 120

Lab Sample ID: LCSD 870-13168/11
Matrix: Water
Analysis Batch: 13168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	499	505.1		ug/L		101	80 - 120	1	20

Lab Sample ID: 870-17931-4 MS
Matrix: Water
Analysis Batch: 13168

Client Sample ID: 2324004-06 (Effluent G)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	<2.80	U	499	457.3		ug/L		92	80 - 120

Eurofins Dallas

QC Sample Results

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 870-17931-4 MSD

Matrix: Water

Analysis Batch: 13168

Client Sample ID: 2324004-06 (Effluent G)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	<2.80	U	499	481.9		ug/L		97	80 - 120	5	20

Lab Sample ID: MB 870-13469/9

Matrix: Water

Analysis Batch: 13469

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<2.80	U	10.0	2.80	ug/L			06/30/23 12:41	1

Lab Sample ID: LCS 870-13469/10

Matrix: Water

Analysis Batch: 13469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	499	535.3		ug/L		107	80 - 120

Lab Sample ID: LCSD 870-13469/11

Matrix: Water

Analysis Batch: 13469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	499	539.5		ug/L		108	80 - 120	1	20

Lab Sample ID: 870-17931-2 MS

Matrix: Water

Analysis Batch: 13469

Client Sample ID: 2324004-03 (Influent G)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	42.1	H	499	501.6		ug/L		92	80 - 120

Lab Sample ID: 870-17931-2 MSD

Matrix: Water

Analysis Batch: 13469

Client Sample ID: 2324004-03 (Influent G)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	42.1	H	499	505.8		ug/L		93	80 - 120	1	20

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QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

GC/MS VOA

Prep Batch: 13106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 870-13106/27-A	Method Blank	Total/NA	Water	5035	
LCS 870-13106/25-A	Lab Control Sample	Total/NA	Water	5035	
LCSD 870-13106/26-A	Lab Control Sample Dup	Total/NA	Water	5035	

Analysis Batch: 13152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	624.1	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	624.1	
MB 870-13106/27-A	Method Blank	Total/NA	Water	624.1	13106
LCS 870-13106/25-A	Lab Control Sample	Total/NA	Water	624.1	13106
LCSD 870-13106/26-A	Lab Control Sample Dup	Total/NA	Water	624.1	13106
870-17931-2 MS	2324004-03 (Influent G)	Total/NA	Water	624.1	
870-17931-2 MSD	2324004-03 (Influent G)	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 108515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	625	
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	625	
MB 860-108515/1-A	Method Blank	Total/NA	Water	625	
LCS 860-108515/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-108515/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 108623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-108515/1-A	Method Blank	Total/NA	Water	625.1	108515
LCS 860-108515/2-A	Lab Control Sample	Total/NA	Water	625.1	108515
LCSD 860-108515/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	108515

Analysis Batch: 108963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	625.1	108515
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	625.1	108515

Prep Batch: 109227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1 - RE	2324004-01 (Influent TC)	Total/NA	Water	625	
870-17931-3 - RE	2324004-04 (Effluent TC)	Total/NA	Water	625	
MB 860-109227/1-A	Method Blank	Total/NA	Water	625	
LCS 860-109227/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-109227/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 109241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1 - RE	2324004-01 (Influent TC)	Total/NA	Water	625.1	109227
870-17931-3 - RE	2324004-04 (Effluent TC)	Total/NA	Water	625.1	109227
MB 860-109227/1-A	Method Blank	Total/NA	Water	625.1	109227
LCS 860-109227/2-A	Lab Control Sample	Total/NA	Water	625.1	109227
LCSD 860-109227/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	109227

Eurofins Dallas

QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

GC Semi VOA

Prep Batch: 108342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	3511	
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	3511	
MB 860-108342/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-108342/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-108342/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-108342/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-108342/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 108383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	615	108342
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	615	108342
MB 860-108342/1-A	Method Blank	Total/NA	Water	615	108342
LCS 860-108342/2-A	Lab Control Sample	Total/NA	Water	615	108342
LCS 860-108342/4-A	Lab Control Sample	Total/NA	Water	615	108342
LCSD 860-108342/3-A	Lab Control Sample Dup	Total/NA	Water	615	108342
LCSD 860-108342/5-A	Lab Control Sample Dup	Total/NA	Water	615	108342

Prep Batch: 108599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	608	
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	608	
MB 860-108599/1-A	Method Blank	Total/NA	Water	608	
LCS 860-108599/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-108599/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-108599/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-108599/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 108612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	608.3	108599
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	608.3	108599
MB 860-108599/1-A	Method Blank	Total/NA	Water	608.3	108599
LCS 860-108599/2-A	Lab Control Sample	Total/NA	Water	608.3	108599
LCSD 860-108599/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	108599

Analysis Batch: 108615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	608.3	108599
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	608.3	108599
MB 860-108599/1-A	Method Blank	Total/NA	Water	608.3	108599
LCS 860-108599/4-A	Lab Control Sample	Total/NA	Water	608.3	108599
LCSD 860-108599/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	108599

HPLC/IC

Prep Batch: 109837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	CWA_Prep	
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	CWA_Prep	
MB 860-109837/1-A	Method Blank	Total/NA	Water	CWA_Prep	

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QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

HPLC/IC (Continued)

Prep Batch: 109837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-109837/12-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-109837/13-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 110977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-1	2324004-01 (Influent TC)	Total/NA	Water	632	109837
870-17931-3	2324004-04 (Effluent TC)	Total/NA	Water	632	109837
MB 860-109837/1-A	Method Blank	Total/NA	Water	632	109837
LCS 860-109837/12-A	Lab Control Sample	Total/NA	Water	632	109837
LCSD 860-109837/13-A	Lab Control Sample Dup	Total/NA	Water	632	109837

Metals

Prep Batch: 109547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total Recoverable	Water	200.8	
870-17931-4	2324004-06 (Effluent G)	Total Recoverable	Water	200.8	
MB 860-109547/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 860-109547/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-109547/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-109547/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 109760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total Recoverable	Water	200.8	109547
870-17931-4	2324004-06 (Effluent G)	Total Recoverable	Water	200.8	109547
MB 860-109547/1-A	Method Blank	Total Recoverable	Water	200.8	109547
LCS 860-109547/2-A	Lab Control Sample	Total Recoverable	Water	200.8	109547
LCSD 860-109547/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	109547
LLCS 860-109547/4-A	Lab Control Sample	Total Recoverable	Water	200.8	109547

General Chemistry

Analysis Batch: 13168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	7196A	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	7196A	
MB 870-13168/9	Method Blank	Total/NA	Water	7196A	
LCS 870-13168/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 870-13168/11	Lab Control Sample Dup	Total/NA	Water	7196A	
870-17931-4 MS	2324004-06 (Effluent G)	Total/NA	Water	7196A	
870-17931-4 MSD	2324004-06 (Effluent G)	Total/NA	Water	7196A	

Analysis Batch: 13469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 870-13469/9	Method Blank	Total/NA	Water	7196A	
LCS 870-13469/10	Lab Control Sample	Total/NA	Water	7196A	
LCSD 870-13469/11	Lab Control Sample Dup	Total/NA	Water	7196A	
870-17931-2 MS	2324004-03 (Influent G)	Total/NA	Water	7196A	
870-17931-2 MSD	2324004-03 (Influent G)	Total/NA	Water	7196A	

Eurofins Dallas

QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

General Chemistry

Analysis Batch: 108636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	SM 4500 CN G	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	SM 4500 CN G	

Analysis Batch: 109019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	420.4	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	420.4	
MB 860-109019/15	Method Blank	Total/NA	Water	420.4	
LCS 860-109019/16	Lab Control Sample	Total/NA	Water	420.4	
LCSD 860-109019/17	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 109063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	SM 3500 CR B	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	SM 3500 CR B	

Prep Batch: 109534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	Distill/CN	
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	Distill/CN	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	Distill/CN	
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	Distill/CN	
MB 860-109534/31-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-109534/37-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-109534/44-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-109534/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-109534/38-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 860-109534/45-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 860-109534/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-109534/33-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LCSD 860-109534/39-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LCSD 860-109534/46-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 860-109534/6-A	Lab Control Sample	Total/NA	Water	Distill/CN	
870-17931-2 DU	2324004-03 (Influent G)	Total/NA	Water	Distill/CN	

Analysis Batch: 109624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	335.4	109534
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	335.4	109534
MB 860-109534/31-A	Method Blank	Total/NA	Water	335.4	109534
MB 860-109534/37-A	Method Blank	Total/NA	Water	335.4	109534
MB 860-109534/44-A	Method Blank	Total/NA	Water	335.4	109534
MB 860-109534/4-A	Method Blank	Total/NA	Water	335.4	109534
LCS 860-109534/38-A	Lab Control Sample	Total/NA	Water	335.4	109534
LCS 860-109534/45-A	Lab Control Sample	Total/NA	Water	335.4	109534
LCS 860-109534/5-A	Lab Control Sample	Total/NA	Water	335.4	109534
LCSD 860-109534/33-A	Lab Control Sample Dup	Total/NA	Water	335.4	109534
LCSD 860-109534/39-A	Lab Control Sample Dup	Total/NA	Water	335.4	109534
LCSD 860-109534/46-A	Lab Control Sample Dup	Total/NA	Water	335.4	109534
LLCS 860-109534/6-A	Lab Control Sample	Total/NA	Water	335.4	109534
870-17931-2 DU	2324004-03 (Influent G)	Total/NA	Water	335.4	109534

Eurofins Dallas

QC Association Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

General Chemistry

Analysis Batch: 109625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-17931-2	2324004-03 (Influent G)	Total/NA	Water	4500 CN G NonAm	109534
870-17931-4	2324004-06 (Effluent G)	Total/NA	Water	4500 CN G NonAm	109534
MB 860-109534/44-A	Method Blank	Total/NA	Water	4500 CN G NonAm	109534
LCS 860-109534/45-A	Lab Control Sample	Total/NA	Water	4500 CN G NonAm	109534
LCSD 860-109534/46-A	Lab Control Sample Dup	Total/NA	Water	4500 CN G NonAm	109534
870-17931-2 DU	2324004-03 (Influent G)	Total/NA	Water	4500 CN G NonAm	109534

Analysis Batch: 109762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-109534/31-A	Method Blank	Total/NA	Water	335.4	109534
MB 860-109534/44-A	Method Blank	Total/NA	Water	335.4	109534
MB 860-109534/4-A	Method Blank	Total/NA	Water	335.4	109534
LCS 860-109534/45-A	Lab Control Sample	Total/NA	Water	335.4	109534
LCS 860-109534/5-A	Lab Control Sample	Total/NA	Water	335.4	109534
LCSD 860-109534/33-A	Lab Control Sample Dup	Total/NA	Water	335.4	109534
LCSD 860-109534/46-A	Lab Control Sample Dup	Total/NA	Water	335.4	109534
LLCS 860-109534/6-A	Lab Control Sample	Total/NA	Water	335.4	109534
870-17931-2 DU	2324004-03 (Influent G)	Total/NA	Water	335.4	109534

Eurofins Dallas

Lab Chronicle

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-01 (Influent TC)

Lab Sample ID: 870-17931-1

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1000 mL	1 mL	108515	06/19/23 16:07	RC	EET HOU
Total/NA	Analysis	625.1		10	1 mL	1 mL	108963	06/21/23 22:25	PXS	EET HOU
Total/NA	Prep	625	RE		1000 mL	1.00 mL	109227	06/23/23 06:46	DR	EET HOU
Total/NA	Analysis	625.1	RE	10	1 mL	1 mL	109241	06/23/23 15:34	EM	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	108599	06/20/23 07:13	DR	EET HOU
Total/NA	Analysis	608.3		1	1 mL	1 mL	108612	06/20/23 15:30	WP	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	108599	06/20/23 07:13	DR	EET HOU
Total/NA	Analysis	608.3		1			108615	06/20/23 14:13	WP	EET HOU
Total/NA	Prep	3511			48.9 mL	4 mL	108342	06/18/23 13:42	JN	EET HOU
Total/NA	Analysis	615		1			108383	06/19/23 23:35	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	1 mL	109837	06/28/23 10:33	DR	EET HOU
Total/NA	Analysis	632		1			110977	07/07/23 02:56	AA	EET HOU

Client Sample ID: 2324004-03 (Influent G)

Lab Sample ID: 870-17931-2

Date Collected: 06/15/23 08:30

Matrix: Water

Date Received: 06/15/23 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	13152	06/15/23 18:13	MC	EET DAL
Total Recoverable	Prep	200.8			50 mL	50 mL	109547	06/26/23 11:30	MD	EET HOU
Total Recoverable	Analysis	200.8		1			109760	06/27/23 01:15	DP	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	109534	06/26/23 11:13	CL	EET HOU
Total/NA	Analysis	335.4		1			109624	06/26/23 16:11	CL	EET HOU
Total/NA	Analysis	420.4		1	10 mL	10 mL	109019	06/21/23 18:11	ADL	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	109534	06/26/23 11:20	CL	EET HOU
Total/NA	Analysis	4500 CN G NonAm		1			109625	06/26/23 16:32	CL	EET HOU
Total/NA	Analysis	7196A		1	10 mL	10 mL	13168	06/15/23 16:33	CGG	EET DAL
Total/NA	Analysis	SM 3500 CR B		1			109063	06/22/23 08:58	SC	EET HOU
Total/NA	Analysis	SM 4500 CN G		1			108636	06/20/23 09:22	AA	EET HOU

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1000 mL	1 mL	108515	06/19/23 16:07	RC	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	108963	06/21/23 22:45	PXS	EET HOU
Total/NA	Prep	625	RE		1000 mL	1.00 mL	109227	06/23/23 06:46	DR	EET HOU
Total/NA	Analysis	625.1	RE	1	1 mL	1 mL	109241	06/23/23 15:54	EM	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	108599	06/20/23 07:13	DR	EET HOU
Total/NA	Analysis	608.3		1	1 mL	1 mL	108612	06/20/23 15:16	WP	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	108599	06/20/23 07:13	DR	EET HOU
Total/NA	Analysis	608.3		1			108615	06/20/23 14:24	WP	EET HOU

Eurofins Dallas

Lab Chronicle

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Client Sample ID: 2324004-04 (Effluent TC)

Lab Sample ID: 870-17931-3

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			49.3 mL	4 mL	108342	06/18/23 13:42	JN	EET HOU
Total/NA	Analysis	615		1			108383	06/20/23 00:02	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	1 mL	108837	06/28/23 10:33	DR	EET HOU
Total/NA	Analysis	632		1			110977	07/07/23 18:04	AA	EET HOU

Client Sample ID: 2324004-06 (Effluent G)

Lab Sample ID: 870-17931-4

Date Collected: 06/15/23 09:00

Matrix: Water

Date Received: 06/15/23 15:46

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	13152	06/15/23 19:13	MC	EET DAL
Total Recoverable	Prep	200.8			50 mL	50 mL	109547	06/26/23 11:30	MD	EET HOU
Total Recoverable	Analysis	200.8		1			109760	06/27/23 01:25	DP	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	109534	06/26/23 11:13	CL	EET HOU
Total/NA	Analysis	335.4		1			109624	06/26/23 16:12	CL	EET HOU
Total/NA	Analysis	420.4		1	10 mL	10 mL	109019	06/21/23 18:08	ADL	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	109534	06/26/23 11:20	CL	EET HOU
Total/NA	Analysis	4500 CN G NonAm		1			109625	06/26/23 16:33	CL	EET HOU
Total/NA	Analysis	7196A		1	10 mL	10 mL	13168	06/15/23 16:33	CGG	EET DAL
Total/NA	Analysis	SM 3500 CR B		1			109063	06/22/23 08:58	SC	EET HOU
Total/NA	Analysis	SM 4500 CN G		1			108636	06/20/23 09:22	AA	EET HOU

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662

EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300

EET HOU = Eurofins Houston, 4145 Greenbrier Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Dallas

Accreditation/Certification Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Laboratory: Eurofins Dallas

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704285-23-34	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Trihalomethanes, Total
624.1		Water	Vinyl acetate

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
4500 CN G NonAm	Distill/CN	Water	Cyanide, Non-amenable
608.3	608	Water	Dicofol
608.3	608	Water	Mirex
608.3	608	Water	Polychlorinated biphenyls, Total
615	3511	Water	Hexachlorophene
615	3511	Water	Pentachlorophenol
625.1	625	Water	3 & 4 Methylphenol
625.1	625	Water	4-Nonylphenol
625.1	625	Water	Azobenzene
625.1	625	Water	Total Cresols
632	CWA_Prep	Water	Diuron
SM 3500 CR B		Water	Cr (III)

Eurofins Dallas

Method Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET DAL
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET HOU
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
200.8	Metals (ICP/MS)	EPA	EET HOU
335.4	Cyanide, Total	EPA	EET HOU
420.4	Phenolics, Total Recoverable	EPA	EET HOU
4500 CN G	Cyanide, Non-amenable	SM	EET HOU
NonAm			
7196A	Chromium, Hexavalent	SWB46	EET DAL
SM 3500 CR B	Chromium, Trivalent	SM	EET HOU
SM 4500 CN G	Cyanide, Amenable	SM	EET HOU
614	EPA 614 - Organophosphorus Pesticides	EPA	Ana-Lab Co
200.8	Preparation, Total Recoverable Metals	EPA	EET HOU
3511	Microextraction of Organic Compounds	SWB46	EET HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
625	Liquid-Liquid Extraction	EPA	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
Distill/CN	Distillation, Cyanide	None	EET HOU

Protocol References:

EPA = US Environmental Protection Agency
EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SWB46 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75652
EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Dallas

Sample Summary

Client: North Texas Municipal Water District
Project/Site: Floyd Branch WWTP/2324004

Job ID: 870-17931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
870-17931-1	2324004-01 (Influent TC)	Water	06/15/23 08:30	06/15/23 15:46
870-17931-2	2324004-03 (Influent G)	Water	06/15/23 08:30	06/15/23 15:46
870-17931-3	2324004-04 (Effluent TC)	Water	06/15/23 09:00	06/15/23 15:46
870-17931-4	2324004-06 (Effluent G)	Water	06/15/23 09:00	06/15/23 15:46

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Dallas, TX 75220

Project
1062327

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TABLE OF CONTENTS

Floyd Branch WWTP

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
1062327_r02_01_ProjectSamples	SPL Kilgore Project P:1062327 C:XNKS Project Sample Cross Reference t:304	1
1062327_r03_03_ProjectResults	SPL Kilgore Project P:1062327 C:XNKS Project Results t:304 PO: US1311955571 Start Date: 04/01/22 - End	3
1062327_r03_06_O_ProjectTRRP	SPL Kilgore Project P:1062327 C:XNKS Project TRRP Results Report for Class O	2
1062327_r10_05_ProjectQC	SPL Kilgore Project P:1062327 C:XNKS Project Quality Control Groups	2
1062327_r99_09_CoC_1_of_1	SPL Kilgore CoC XNKS 1062327_1_of_1	3
Total Pages:		11

Email: projectmanager@ana-lab.com



Report Page 1 of 12

SAMPLE CROSS REFERENCE

Project

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Page 1 of 1

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Sample	Sample ID	Taken	Time	Received
2205927	2324004-01 (Influent-TC)	06/15/2023	08:30:00	06/17/2023

Bottle 01 Client Supplied Amber Glass

Bottle 02 Client Supplied Amber Glass

Bottle 03 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1068116) Volume: 1.00000 mL <== Derived from 02 (984 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 614	03	1068116	06/19/2023	1069058	06/21/2023

Sample	Sample ID	Taken	Time	Received
2205928	2324004-04 (Effluent-TC)	06/15/2023	09:00:00	06/17/2023

Bottle 01 Client Supplied Amber Glass

Bottle 02 Client Supplied Amber Glass

Bottle 03 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1068116) Volume: 1.00000 mL <== Derived from 02 (952 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 614	03	1068116	06/19/2023	1069058	06/21/2023

Email: projectmanager@ana-lab.com



Report Page 2 of 12

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Floyd Branch WWTP

RESULTS

Sample Results

2205927 2324004-01 (Influent-TC)

870-17931-1

Received: 06/17/2023

Non-Potable Water

Collected by: Client

Eurofins Xenco

PO: 71 Start Date: 04/01/22 - End

Taken: 06/15/2023

08:30:00

EPA 614

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1069058 06/21/2023 22:42:00 BLF

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Azinphos-methyl (Guthion)	<0.0508	ug/L	0.0508		86-50-0	03
z Chlorpyrifos	<0.0407	ug/L	0.0407		2921-88-2	03
NELAC Demeton	<0.0508	ug/L	0.0508		8065-48-3	03
NELAC Diazinon	<0.0508	ug/L	0.0508		333-41-5	03
NELAC Malathion	<0.0508	ug/L	0.0508		121-75-5	03
NELAC Parathion, ethyl	<0.0508	ug/L	0.0508		56-38-2	03
NELAC Parathion, methyl	<0.0407	ug/L	0.0407		298-00-0	03

2205928 2324004-04 (Effluent-TC)

870-17931-3

Received: 06/17/2023

Non-Potable Water

Collected by: Client

Eurofins Xenco

PO: 71 Start Date: 04/01/22 - End

Taken: 06/15/2023

09:00:00

EPA 614

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1069058 06/21/2023 23:09:00 BLF

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Azinphos-methyl (Guthion)	<0.0525	ug/L	0.0525		86-50-0	03
z Chlorpyrifos	<0.042	ug/L	0.042		2921-88-2	03
NELAC Demeton	<0.0525	ug/L	0.0525		8065-48-3	03
NELAC Diazinon	<0.0525	ug/L	0.0525		333-41-5	03
NELAC Malathion	<0.0525	ug/L	0.0525		121-75-5	03
NELAC Parathion, ethyl	<0.0525	ug/L	0.0525		56-38-2	03
NELAC Parathion, methyl	<0.042	ug/L	0.042		298-00-0	03

Sample Preparation



Report Page 3 of 12

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Project
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2205927 2324004-01 (Influent-TC)

870-17931-1

Received: 06/17/2023

71 Start Date: 04/01/22 - End

06/15/2023

Prepared: 06/20/2023 12:39:46 Calculated 06/20/2023 12:39:46 CAL

Environmental Fee (per Project)

Verified

Cooler Return

Prepared: 06/19/2023 16:30:00 Analyzed 06/19/2023 16:30:00 DRS

Return Cooler/No bottles Require

returned

EPA 608.3

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1068116 06/19/2023 14:00:00 CRS

Solvent Extraction

1/984

ml

02

EPA 614

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1069058 06/21/2023 22:42:00 BLF

Permit Renewal Phos. Pesticides

Entered

03

2205928 2324004-04 (Effluent-TC)

870-17931-3

Received: 06/17/2023

71 Start Date: 04/01/22 - End

06/15/2023

EPA 608.3

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1068116 06/19/2023 14:00:00 CRS

Solvent Extraction

1/952

ml

02

EPA 614

Prepared: 1068116 06/19/2023 14:00:00 Analyzed 1069058 06/21/2023 23:09:00 BLF

Permit Renewal Phos. Pesticides

Entered

03



Report Page 4 of 12

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John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at Ana-lab corporate laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAP.

RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

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Page 3 of 3

Project

1062327

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Report Page 5 of 12

RESULTS

XNKS

Project

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Floyd Branch WWTP

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CAS	Parameter	Results	MDL	SDL	ML	MLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water		Organics								EPA 614	
2205927	2324004-01 (Influent-TC)	870-17931-1									
		Collection:	06/15/2023	08:30:00	Client			Received:	06/17/2023		
Prepared:		1068116									
			Analyzed:		1069058		6/21/23	22:42:00			
86-50-0	Azinphos-methyl (Guthion)	ND	0.0461	0.0468	0.050	0.0508		ug/L	0.100	03	1.02
2921-88-2	Chlorpyrifos	ND	0.0394	0.040	0.040	0.0407		ug/L	0.050	03	1.02
8065-48-3	Demeton	ND	0.0407	0.0414	0.050	0.0508		ug/L	0.200	03	1.02
333-41-5	Diazinon	ND	0.0432	0.0439	0.050	0.0508		ug/L	0.100	03	1.02
121-75-5	Malathion	ND	0.0466	0.0474	0.050	0.0508		ug/L	0.100	03	1.02
56-38-2	Parathion, ethyl	ND	0.0292	0.0297	0.050	0.0508		ug/L	0.100	03	1.02
298-00-0	Parathion, methyl	ND	0.0395	0.0401	0.040	0.0407		ug/L	0.050	03	1.02
2205928	2324004-04 (Effluent-TC)	870-17931-3									
		Collection:	06/15/2023	09:00:00	Client			Received:	06/17/2023		
Prepared:		1068116									
			Analyzed:		1069058		6/21/23	23:09:00			
86-50-0	Azinphos-methyl (Guthion)	ND	0.0461	0.0484	0.050	0.0525		ug/L	0.100	03	1.05
2921-88-2	Chlorpyrifos	ND	0.0394	0.0414	0.040	0.042		ug/L	0.050	03	1.05
8065-48-3	Demeton	ND	0.0407	0.0428	0.050	0.0525		ug/L	0.200	03	1.05
333-41-5	Diazinon	ND	0.0432	0.0454	0.050	0.0525		ug/L	0.100	03	1.05
121-75-5	Malathion	ND	0.0466	0.0489	0.050	0.0525		ug/L	0.100	03	1.05
56-38-2	Parathion, ethyl	ND	0.0292	0.0307	0.050	0.0525		ug/L	0.100	03	1.05
298-00-0	Parathion, methyl	ND	0.0395	0.0415	0.040	0.042		ug/L	0.050	03	1.05

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RESULTS

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Floyd Branch WWTP

CAS	Parameter	Results	MDL	SDL	ML	MLAdj	Flag	Units	Target	Bottle	Dilute
	Non-Potable Water	Organics								EPA 614	

MDL is Method Detection Limit (40 CFR 136 Appendix B)

ML is the Method Quantitation Limit and corresponds to a low standard

Qualifiers:

SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)

MLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at Ana-lab corporate laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAP.

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Bill Peery, MS, VP Technical Services

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QUALITY CONTROL

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Page 1 of 2

Project
1062327

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Analytical Set **1069058**

EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1068116	ND	0.0461	0.050	ug/L	125120465
Chlorpyrifos	1068116	ND	0.0394	0.040	ug/L	125120465
Demeton	1068116	ND	0.0407	0.050	ug/L	125120465
Diazinon	1068116	ND	0.0432	0.050	ug/L	125120465
Malathion	1068116	ND	0.0466	0.050	ug/L	125120465
Parathion, ethyl	1068116	ND	0.0292	0.050	ug/L	125120465
Parathion, methyl	1068116	ND	0.0395	0.040	ug/L	125120465

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1020	1000	ug/L	102	37.5 - 164	125120557
Azinphos-methyl (Guthion)	642	1000	ug/L	64.2	37.5 - 164	125120470
Chlorpyrifos	1010	1000	ug/L	101	45.4 - 176	125120557
Chlorpyrifos	1220	1000	ug/L	122	45.4 - 176	125120470
Demeton	990	1000	ug/L	99.0	58.6 - 150	125120557
Demeton	1350	1000	ug/L	135	58.6 - 150	125120470
Diazinon	996	1000	ug/L	99.6	65.4 - 138	125120557
Diazinon	1260	1000	ug/L	126	65.4 - 138	125120470
Malathion	983	1000	ug/L	98.3	49.5 - 160	125120557
Malathion	1140	1000	ug/L	114	49.5 - 160	125120470
Parathion, ethyl	1010	1000	ug/L	101	56.0 - 142	125120557
Parathion, ethyl	1120	1000	ug/L	112	56.0 - 142	125120470
Parathion, methyl	1010	1000	ug/L	101	12.6 - 194	125120557
Parathion, methyl	1070	1000	ug/L	107	12.6 - 194	125120470

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chlorpyrifos	1068116	0.695	0.785	1.00	3.37 - 129	69.5	78.5	ug/L	12.2	30.0
Demeton	1068116	0.659	0.730	1.00	0.100 - 109	65.9	73.0	ug/L	10.2	30.0
Diazinon	1068116	0.678	0.765	1.00	0.100 - 125	67.8	76.5	ug/L	12.1	30.0
Malathion	1068116	0.665	0.754	1.00	0.100 - 130	66.5	75.4	ug/L	12.5	30.0
Parathion, ethyl	1068116	0.665	0.754	1.00	0.100 - 122	66.5	75.4	ug/L	12.5	30.0
Parathion, methyl	1068116	0.467	0.532	1.00	0.100 - 131	46.7	53.2	ug/L	13.0	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1030	2000	ug/L	51.5	0.100 - 106	125120557
Tributylphosphate		CCV	1210	2000	ug/L	60.5	0.100 - 106	125120470
Triphenylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 172	125120557
Triphenylphosphate		CCV	1290	2000	ug/L	64.5	0.100 - 172	125120470
Tributylphosphate	1068116	Blank	783	2000	ug/L	39.2	0.100 - 106	125120465
Tributylphosphate	1068116	LCS	682	2000	ug/L	34.1	0.100 - 106	125120466
Tributylphosphate	1068116	LCS Dup	761	2000	ug/L	38.0	0.100 - 106	125120467
Triphenylphosphate	1068116	Blank	966	2000	ug/L	48.3	0.100 - 172	125120465



Report Page 8 of 12

QUALITY CONTROL

XNKS-N

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

ANALAB
Testing the Limits of Science and Service

Page 2 of 2

Project
1062327

Printed 06/27/2023

Parameter	Surrogate							
	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Triphenylphosphate	1068116	LCS	837	2000	ug/L	41.8	0.100 - 172	125120466
Tributylphosphate	2205927	Unknown	0.629	2.03	ug/L	31.0	0.100 - 106	125120468
Triphenylphosphate	2205927	Unknown	0.955	2.03	ug/L	47.0	0.100 - 172	125120468
Tributylphosphate	2205928	Unknown	0.850	2.10	ug/L	40.5	0.100 - 106	125120469
Triphenylphosphate	2205928	Unknown	0.968	2.10	ug/L	46.1	0.100 - 172	125120469

* Out RPD is Relative Percent Difference: $\text{abs}(r_1 - r_2) / \text{mean}(r_1, r_2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 3994 Ref #4 TRADE QA Resources Guide.)



Report Page 9 of 12

1 of 3

Environment Testing

7/7/2023

Ver 06/08/2021



ICOC No:
870-4208

Containers
Count 4
Container Type
Amber Glass 1 liter - unpreserved

Preservative
None

Subcontract Method Instructions			
Sample IDs	Method	Method Description	Method Comments
1, 3	SUBCONTRACT	SUB (General Subcontract Method) EPA 614	EPA 614/ Need Texas Wastewater MAL's.

1062327 CoC Print Group 001 of 001

OFFICE: KIPA (214) 902-0300
 DALLAS SALES RECEIPT
 9701 HARRY HINES BLVD
 DALLAS, TX 75220
 UNITED STATES US
 TO ANA-LAB CORP.
 ANA-LAB CORP.
 2600 DUDLEY RD
 P.O. BOX 9000
 KILGORE TX 75662
 (903) 984-0551 REF: DEPT:

SHIP DATE: 16 JUN 23
 ACTWG: 700 LB
 CAD: 11019000 NET 4610

BILL SENDER



SATURDAY 12:00P
 PRIORITY OVERNIGHT

TRK# 7724 7958 1250
 0201

X0 GGGA

75662
 TX-US SHV



SDR

FedEx® Saturday Delivery

151985 10/04 MW3

4/17/23 12:23 AA
 Date Time Tech
 Temp: 2.6/25 C
 Therm#: 8205 Corr Fact: -0.1 C

Report Page 12 of 12

Page 62 of 67

7/7/2023

Floyd Branch WWT
111 W. Rurikham
Kearbsn, IN 75681
Contact: KIRSTEN S. PROHO

NTMWD Chain of Custody Record

INDUCTION CELL LINE (CIRM)	RELEVANT CELL LINE (CIRM)	9/2000
Sample C: human Non-melanocytes	Human Keratinocytes	9/2000
Sample D: human Non-melanocytes	Human Keratinocytes	9/2000
Sample E: human Non-melanocytes	Human Keratinocytes	9/2000
Sample F: human Non-melanocytes	Human Keratinocytes	9/2000
Sample G: human Non-melanocytes	Human Keratinocytes	9/2000
Sample H: human Non-melanocytes	Human Keratinocytes	9/2000
Sample I: human Non-melanocytes	Human Keratinocytes	9/2000
Sample J: human Non-melanocytes	Human Keratinocytes	9/2000
Sample K: human Non-melanocytes	Human Keratinocytes	9/2000
Sample L: human Non-melanocytes	Human Keratinocytes	9/2000
Sample M: human Non-melanocytes	Human Keratinocytes	9/2000
Sample N: human Non-melanocytes	Human Keratinocytes	9/2000
Sample O: human Non-melanocytes	Human Keratinocytes	9/2000
Sample P: human Non-melanocytes	Human Keratinocytes	9/2000
Sample Q: human Non-melanocytes	Human Keratinocytes	9/2000
Sample R: human Non-melanocytes	Human Keratinocytes	9/2000
Sample S: human Non-melanocytes	Human Keratinocytes	9/2000
Sample T: human Non-melanocytes	Human Keratinocytes	9/2000
Sample U: human Non-melanocytes	Human Keratinocytes	9/2000
Sample V: human Non-melanocytes	Human Keratinocytes	9/2000
Sample W: human Non-melanocytes	Human Keratinocytes	9/2000
Sample X: human Non-melanocytes	Human Keratinocytes	9/2000
Sample Y: human Non-melanocytes	Human Keratinocytes	9/2000
Sample Z: human Non-melanocytes	Human Keratinocytes	9/2000

Work Order Number: 2324004
Project: 301 AC 307+Table III
Reviewed By: _____

Page 1 of 2

7/7/2023

Date	Time	Type	Num	Sample Name	Temp and deg above sea level	Compass info
6-15-23	8:30 A	Grb	03	Enham G		
6-15-23	8:30 A	sec above	04	Enham TC		
6-15-23	9:00 A	Grb	06	Enham G		

[illegible]

Open Travel and ^{Business} 6-15-23 1596 Robinson 6/15/23 1596

2.40 | 2.4
4.0 | 3.8
2.0 | 1.8

1.2202
1.8/1.6

Eurofins Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

[illegible]

[illegible]

Login Sample Receipt Checklist

Client: North Texas Municipal Water District

Job Number: 870-17931-1

SDG Number:

Login Number: 17931

List Number: 1

List Source: Eurofins Dallas

Creator: Whitlock, Kaitlyn N

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

16

Eurofins Dallas

Page 66 of 67

7/7/2023

Login Sample Receipt Checklist

Client: North Texas Municipal Water District

Job Number: 870-17931-1

SDG Number:

Login Number: 17931

List Source: Eurofins Houston

List Number: 2

List Creation: 06/17/23 12:50 PM

Creator: Pena, Jesiel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Eurofins Dallas

Page 67 of 67

7/7/2023

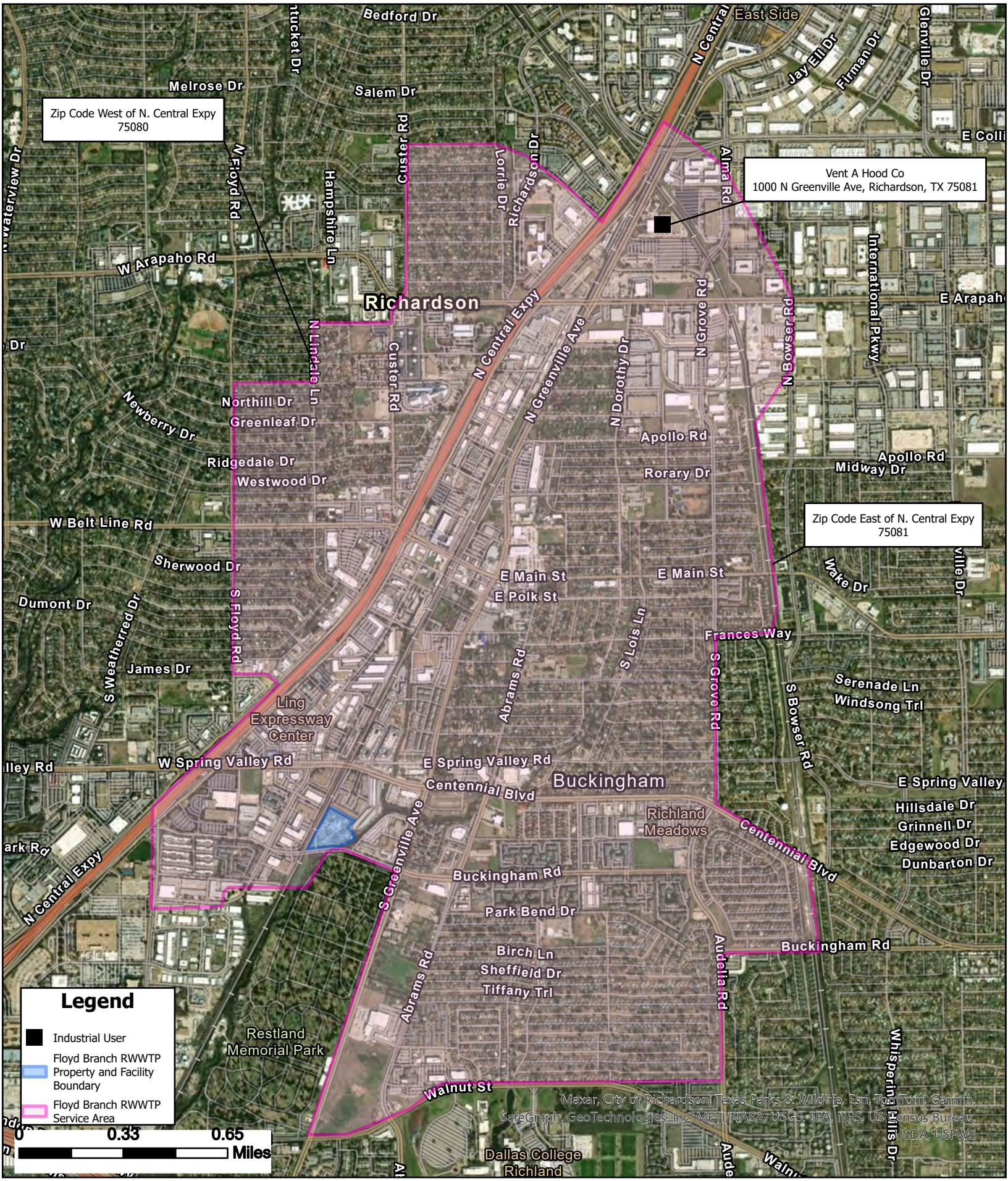
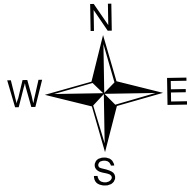
TAB 27

ATTACHMENT 18

SERVICE AREA MAP



Floyd Branch RWWTP Service Area Map



TAB 28

ATTACHMENT 19

TABLE 6.0(1) - PARAMETERS ABOVE THE MAL

THREE YEARS ABOVE THE MAL

Pollutant	Concentration	MAL	Units	Date
Aluminum	5.05	2.5 ug/L		6/30/2021
Aluminum	16.1	2.5 ug/L		6/29/2022
Aluminum	9.05	2.5 ug/L		6/15/2023
Arsenic	0.655	0.5 ug/L		2/24/2021
Arsenic	1.03	0.5 ug/L		6/30/2021
Arsenic	1.04	0.5 ug/L		8/25/2021
Arsenic	0.774	0.5 ug/L		2/23/2022
Arsenic	0.626	0.5 ug/L		6/29/2022
Arsenic	0.924	0.5 ug/L		12/15/2022
Arsenic	0.9	0.5 ug/L		6/15/2023
Arsenic	0.833	0.5 ug/L		12/13/2023
Barium	49.9	3 ug/L		6/30/2021
Barium	40.7	3 ug/L		6/29/2022
Barium	39.5	3 ug/L		6/15/2023
Copper	10.3	2 ug/L		2/24/2021
Copper	10.8	2 ug/L		6/30/2021
Copper	7.03	2 ug/L		8/25/2021
Copper	8.59	2 ug/L		2/23/2022
Copper	24.6	2 ug/L		6/29/2022
Copper	10.6	2 ug/L		12/15/2022
Copper	13	2 ug/L		6/15/2023
Copper	12.8	2 ug/L		12/13/2023
Cyanide, Total	12	10 ug/L		8/25/2021
Cyanide, Total	11	10 ug/L		2/23/2022
Fluoride	631	500 ug/L		6/29/2022
Fluoride	581	500 ug/L		6/15/2023
Nickel	5.39	2 ug/L		2/24/2021
Nickel	8.4	2 ug/L		6/30/2021
Nickel	4.79	2 ug/L		8/25/2021
Nickel	5.77	2 ug/L		2/23/2022
Nickel	7.71	2 ug/L		6/29/2022
Nickel	5.43	2 ug/L		12/15/2022
Nickel	6.29	2 ug/L		6/15/2023
Nickel	7.62	2 ug/L		12/13/2023
Nitrate-Nitrogen	12500	100 ug/L		6/30/2021
Nitrate-Nitrogen	23500	100 ug/L		6/29/2022
Nitrate-Nitrogen	23200	100 ug/L		6/15/2023
Phenols, Total	17.9	10 ug/L		8/25/2021
Phenols, Total	12.7	10 ug/L		2/23/2022
Phenols, Total	28	10 ug/L		12/13/2023
Zinc	33.1	5 ug/L		2/24/2021
Zinc	21.3	5 ug/L		6/30/2021
Zinc	31.5	5 ug/L		8/25/2021
Zinc	32.5	5 ug/L		2/23/2022
Zinc	40.7	5 ug/L		6/29/2022
Zinc	15.2	5 ug/L		12/15/2022
Zinc	27.4	5 ug/L		6/15/2023
Zinc	33.7	5 ug/L		12/13/2023

TAB 29

ATTACHMENT 20

SUPPLEMENTAL PERMIT INFORMATION
FORM

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: North Texas Municipal Water District

Permit No. WQ00 10257001EPA ID No. TX 0023931

Address of the project (or a location description that includes street/highway, city/vicinity, and county):

111 E. Buckingham Road, Richardson, Texas 75081, Dallas County

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

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

First and Last Name: Jerry Allen

Credential (P.E, P.G., Ph.D., etc.): N/A

Title: Permitting Manager

Mailing Address: P.O. Box 2408

City, State, Zip Code: Wylie, Texas 75098

Phone No.: 469-626-4634 Ext.: N/A Fax No.: N/A

E-mail Address: jallen@ntmwd.com

2. List the county in which the facility is located: Dallas
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

City of Richardson

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

From the plant outfall to Floyd Branch; thence to Cottonwood Creek; thence to White Rock Creek; thence to White Rock Lake in Segment No. 0827 of the Trinity River Basin.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, 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 caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

No construction proposed.

2. Describe existing disturbances, vegetation, and land use:

The 7-acre property is a wastewater treatment plant with grass cover on unpaved areas within fenced boundaries. Paved roads exist at the site providing access to buildings and facilities. The portion of the property without facilities is comprised of mostly grass cover and the remaining area with trees and shrubs.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

N/A

4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

ORIGINAL FULL SIZED
USGS TOPOGRAPHIC MAP

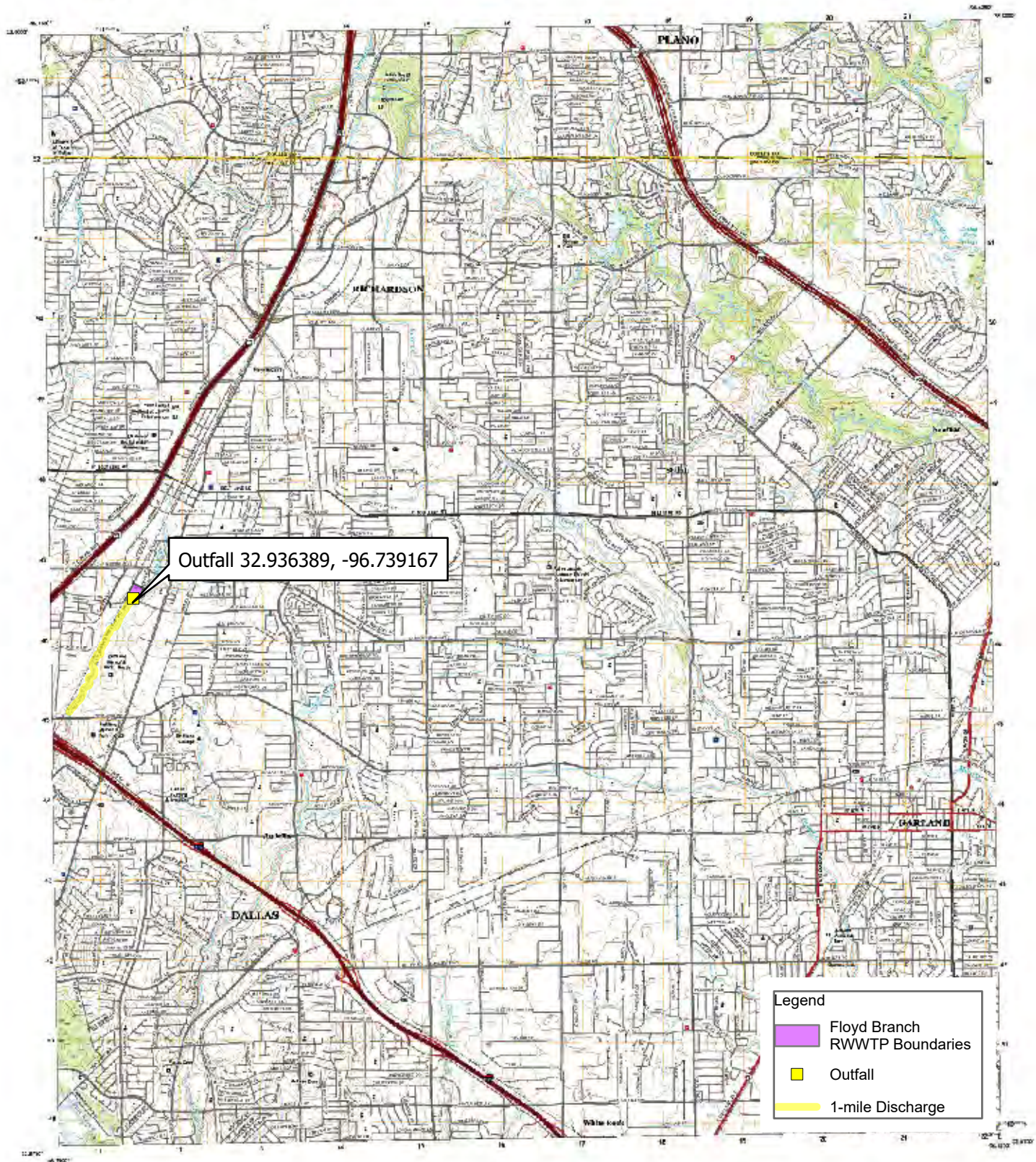
Floyd Branch RWWTP USGS Topographic Map







U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



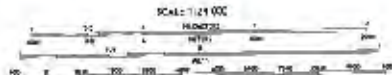
**GAYLAND CUM DRANGLE
TOWNS
7.5 MINUTE SERIES**



Legend

-  Floyd Branch
 RWWTP Boundaries
 Outfall
 1-mile Discharge

Producers of the United States Geological Survey
1000 American Branch Rd. NE
Ft. Collins, CO 80525
1-800-368-5868
This marks the 100th anniversary of the
formation of the USGS. The USGS is a
scientific agency of the Department of the Interior.

[illegible]

*No map was available to compare with the previous one. Source: U.S. Census Bureau.



IDENTIFICATION

Local Curlew DE _____
JCFI Area _____
SIR _____

Date: _____ Time: _____

Observer: _____

Location: _____

Notes: _____

100

SE PLAND, TX.	0
---------------	---



0 0.5 0.9 Miles

ATTACHMENT 21

LANDOWNER LABELS

NORTHSTAR CEMETERY SERVICES OF
TEXAS LLC
1900 ST JAMES PLACE STE 300
HOUSTON, TX 77056

CITY OF RICHARDSON
411 W ARAPAHO RD, STE 101
RICHARDSON, TX 75080

RICHARDSON ISD
420 S GREENVILLE AVE
RICHARDSON, TX 75081

SELFSTORAGE PORTFOLIO
PO BOX 3666
OAK BROOK, IL 60522

B9 SEQUOIA RICHARDSON OWNER LP
& BLACKSTONE REAL ESTATE ADVISORS
PO BOX 2980
CHICAGO, IL 60690

DART
PO BOX 660163, MB 7230
DALLAS, TX 75266

CAMPFIRE SHOPS LLC
1057 S SHERMAN ST STE 300
RICHARDSON, TX 75081

CAMPFIRE SHOPS LLC
16475 DALLAS STE 400
ADDISON, TX 75001

EVOLUTION ACADEMY
1101 S SHERMAN ST
RICHARDSON, TX 75081

TRINITY FELLOWSHIP
932 S GREENVILLE AVE
RICHARDSON, TX 75081

*Four sets of landowner address labels
were submitted to the TCEQ with this
application. Copies of this application
will contain the address label template.

Erwin Madrid

From: Jerry Allen <jallen@NTMWD.COM>
Sent: Friday, May 31, 2024 9:11 AM
To: Erwin Madrid
Cc: Sarah Burns
Subject: RE: Application for Permit No. WQ0010257001 - Notice of Deficiency Letter
Attachments: 2024-05-31 to TCEQ re NTMWD Response to Floyd Branch RWWTP NOD SIGNED.pdf

Caution: This email may contain suspicious content. Please take care when clicking links or opening attachments. When in doubt, contact the TCEQ Help Desk.

Good morning Erwin!

Our response to the NOD is attached. Please let me know if you have any questions. Enjoy the weekend.

Thank you,

JERRY ALLEN

Permitting Manager

North Texas Municipal Water District
O: 469-626-4634 | C: 214-212-6153

OPEN RECORDS NOTICE: This email and responses may be subject to the Texas Public Information Act and may be disclosed to the public upon request. Please respond accordingly.

From: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Sent: Monday, May 20, 2024 12:18 PM
To: Jerry Allen <jallen@NTMWD.COM>
Cc: Sarah Burns <sburns@NTMWD.COM>
Subject: [EXTERNAL] Application for Permit No. WQ0010257001 - Notice of Deficiency Letter
Importance: High

WARNING: This email is from an external source. Do not click links or open attachments without positive sender verification of purpose. Never enter username, password or sensitive information on linked pages from this email.

If you are unsure about the message, please forward to itsupport@ntmwd.com for assistance.

Dear applicant,

The attached Notice of Deficiency letter sent on **May 20, 2024**, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by **June 3, 2024**.

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.



Regional. Reliable. Everyday.

May 31, 2024

Erwin Madrid
Wastewater Permitting Section (MC-148)
Water Quality Division
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

VIA ELECTRONIC MAIL
Erwin.Madrid@tceq.texas.gov

Re: Response to TCEQ Notice of Deficiency
Applicant Name: North Texas Municipal Water District (CN601365448)
Permit Number: WQ0010257001 (EPA I.D. No. TX0023931)
Site Name: Floyd Branch RWWTP (RN102097177)
Type of Application: Major Amendment with Renewal

Dear Mr. Madrid:

This letter is submitted regarding the above-referenced TPDES Domestic Wastewater Permit Application ("Application") associated with the North Texas Municipal Water District's ("NTMWD's") Floyd Branch Regional Wastewater Treatment Plant ("Floyd Branch RWWTP") in response to items noted in the May 20, 2024 letter to Jerry Allen transmitting the notice of deficiencies for the application. NTMWD offers the following comments for your consideration:

Request 1 (New rule requirements under Title 30 TAC Chapter 39 relating to public notices – Translated Spanish NORI):

Response:

A translated Spanish NORI is provided as a Microsoft Word Document as requested in the Notice of Deficiency letter.

NTWMD received notice on April 28, 2022 via email of new rule requirements in 30 TAC 39 regarding public notices to meet requirements in Title VI of the Civil Rights Act. This email stated that the applicant must provide a translated NORI with their approval of the draft NORI in order for the application to be declared administratively complete. There is no language in 30 TAC 39, the *Instructions for Completing Domestic Wastewater Permit Applications (TCEQ-10053)*, or the email from April 28, 2022 that states the translated NORI must be provided with the application before receiving the draft NORI in order for the application be declared administratively complete. Since the draft NORI is provided by TCEQ after the application is received, NTMWD does not have the ability to submit the required translation of the draft NORI with the application in order for it to

Regional Service Through Unity...Meeting Our Region's Needs Today and Tomorrow

Mr. Erwin Madrid

May 31, 2024

Page 2

be declared administratively complete. NTMWD believes this request should be regarded as a "Request for Information" and not a "Notice of Deficiency" and therefore request the "Notice of Deficiency" be changed to a "Request for Information".

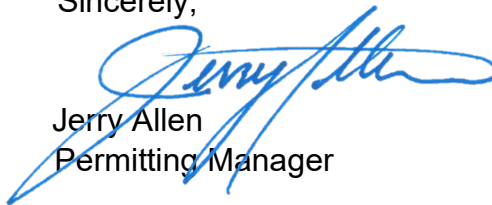
Request 2 (Verify information for the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit):

Response:

NTMWD has reviewed the portion of the NORI provided in the NOD and we have no edits. NTMWD believes this request is not a deficiency and should be regarded as a "Request for Information."

Should you have any questions or need additional information please contact me at jaallen@ntmwd.com or 469-626-4634.

Sincerely,



Jerry Allen
Permitting Manager

JA/sb

Enclosures

cc: Hunter Stephens, NTMWD
Morgan Dadgostar, NTMWD
R.J. Muraski, NTMWD
Lauren Kalisek, Lloyd Gosselink Rochelle & Townsend, P.C.
Lora Naismith, Lloyd Gosselink Rochelle & Townsend, P.C.

Comisión de Calidad Ambiental del Estado de Texas



AVISO DE RECIBO DE LA SOLICITUD Y EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA MODIFICACION

PERMISO NO. WQ0010257001

SOLICITUD. North Texas Municipal Water District, P.O. Box 2408, Wylie, Texas 75098 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para modificar el Permiso No. WQ0010257001 (EPA I.D. No. TX0023931) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar eliminación de las limitaciones de efluentes de plomo y cobre y los requisitos de monitoreo. La planta está ubicada 111 East Buckingham Road, Richardson, en el Condado de Dallas, Texas. La ruta de descarga es del sitio de la planta a Cottonwood Creek; de allí a White Rock Creek; de allí al lago White Rock. La TCEQ recibió esta solicitud el 1 de mayo de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Pública de Richardson, 2360 Campbell Creek Boulevard, Suite 500, Richardson, en el Condado de Dallas, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.739166,32.9375&level=18>

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.

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 <http://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 del North Texas Municipal Water District a la dirección indicada arriba o llamando a Jerry Allen al 469-626-4634.

Fecha de emisión _____ *[Date notice issued]*



TPDES PERMIT NO.
WQ0010257001
*[For TCEQ office use only - EPA I.D.
No. TX0023931]*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This major amendment with renewal
supersedes and replaces TPDES Permit
No. WQ0010257001 issued on October
8, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

North Texas Municipal Water District

whose mailing address is

P.O. Box 2408
Wylie, Texas 75098

is authorized to treat and discharge wastes from the Floyd Branch Regional Wastewater
Treatment Plant, SIC Code 4952

located at 111 East Buckingham Road, in the City of Richardson, Dallas County, Texas 75081

to Floyd Branch, thence to Cottonwood Creek, thence to White Rock Creek, thence to White
Rock Lake in Segment No. 0827 of the Trinity River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth
in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ),
the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does
not grant to the permittee the right to use private or public property for conveyance of
wastewater along the discharge route described in this permit. This includes, but is not limited
to, property belonging to any individual, partnership, corporation, or other entity. Neither does
this permit authorize any invasion of personal rights nor any violation of federal, state, or local
laws or regulations. It is the responsibility of the permittee to acquire property rights as may be
necessary to use the discharge route.

This permit shall expire at midnight, **five years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 4.75 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,944 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (396)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (594)	25	40	60	Two/week	Composite
Ammonia Nitrogen						
March - November	2 (79)	4	10	15	Two/week	Composite
December - February	4 (158)	6	10	15	Two/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
 - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
 - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.
3. Sample Type
- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

- b. Grab sample - an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
 - i. date, time and place of sample or measurement;
 - ii. identity of individual who collected the sample or made the measurement.
 - iii. date and time of analysis;
 - iv. identity of the individual and laboratory who performed the analysis;
 - v. the technique or method of analysis; and
 - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement

Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
 - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
 - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
 - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - i. One hundred micrograms per liter (100 µg/L);
 - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
 - i. Five hundred micrograms per liter (500 µg/L);
 - ii. One milligram per liter (1 mg/L) for antimony;
 - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
 - iv. The level established by the TCEQ.

10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS**1. General**

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
 - i. Violation of any terms or conditions of this permit;
 - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or

prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
 - i. the permittee;
 - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

- iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.
- b. This notification must indicate:
 - i. the name of the permittee;
 - ii. the permit number(s);
 - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
 - a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been

secured.

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
 10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
 11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
 - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
 - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
 - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

- e. The term “industrial solid waste management unit” means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
 - i. Volume of waste and date(s) generated from treatment process;
 - ii. Volume of waste disposed of on-site or shipped off-site;
 - iii. Date(s) of disposal;
 - iv. Identity of hauler or transporter;
 - v. Location of disposal site; and
 - vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

- 12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

TCEQ Revision 06/2020

SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 4) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 4) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> <u>(Milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

- a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.
- viii. Public access to land with a low potential for public exposure shall be restricted

for 30 days after application of biosolids.

- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids

generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

- Alternative 9 -
- i. Biosolids shall be injected below the surface of the land.
 - ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
 - iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- Alternative 10 -
- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
 - ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

<u>Amount of biosolids (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal

coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

<u>Pollutant</u>	<u>Cumulative Pollutant Loading Rate (pounds per acre)*</u>
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

<u>Pollutant</u>	<u>Monthly Average Concentration (milligrams per kilogram)*</u>
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”
6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.
 - c. The number of acres in each site on which bulk biosolids are applied.
 - d. The date and time biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 4) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.
16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 4) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 4) and the Enforcement Division (MC 224), by September 30 of each year.

- D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- E. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 4) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 4) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

TCEQ Revision 06/2020

OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category B facility must be operated by a chief operator or an operator holding a Class B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.
3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge. Chronic freshwater criteria are applied in the perennial freshwater stream.
4. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to five/week. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.
5. The permittee shall secure written approval from the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division before accepting for treatment in this facility any wastes significantly different from normal domestic wastewater. Before providing such approval, the Executive Director may require additional information regarding the nature, quantity, and treatability of the wastes.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **North Texas Municipal Water District (NTMWD)** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **December 23, 1983**, and modified on **December 4, 1992**.

The legal authority and the POTW's pretreatment program are not in compliance with the current 40 CFR Part 403 regulations [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*] and 30 TAC Chapter 305, as amended. The permittee submitted a modification to its pretreatment program containing some or all of the required [*i.e.* more stringent] Streamlining Rule provisions to the TCEQ on February 25, 2011. See Item No. 2 on the next page.

The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.
- c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

- (1) Statement of duration (in no case more than five years);
- (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
- (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;

- (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;
 - (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
 - (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
 - e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).
 - f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).
 - g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.
 - h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

The permittee has submitted a substantial modification to its approved pretreatment program to the TCEQ on February 25, 2011, as required by the NTMWD – Wilson Creek Regional WWTP's TPDES Permit No. WQ0012446001, issued on February 26, 2010, in order to combine all of the permittee's currently approved pretreatment programs into one pretreatment program: Buffalo Creek, Stewart Creek West, Floyd Branch Regional, South Mesquite Creek Regional, Rowlett Creek Regional, Wilson Creek Regional, Panther Creek, and Muddy Creek, (TPDES Permit Nos. WQ0012047001, WQ0014008001,

WQ0010257001, WQ0010221001, WQ0010363001, WQ0012446001, WQ0014245001, and WQ0014216001). The combined pretreatment program will also include the developing pretreatment programs from the Sabine Creek WWTP (TPDES Permit No. WQ0014469001) and the Sister Grove Regional Water Resource Recovery Facility (TPDES Permit No. WQ0015693001). The substantial modification amended on November 7, 2011, includes the redevelopment of the technically based local limits (TBLLs) for all WWTPs currently under the approved program, and revisions to the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms) for each customer city for the combined pretreatment program. The Executive Director is currently reviewing this substantial modification for the new combined program. The NTMWD – Floyd Branch Regional’s approved pretreatment program will remain in effect as required by this TPDES permit until the modification to combine all the NTMWD’s pretreatment programs has been accomplished through the approval process and upon Executive Director approval.

If after review of the substantial modification submission, the Executive Director determines that the submission does not comply with applicable requirements, including 40 CFR §§403.8 and 403.9, the Executive Director will notify the permittee. According to 40 CFR §403.11(c), the notification will include suggested modifications to bring the substantial modification submission into compliance with applicable requirements, including 40 CFR §§403.8(b) and (f) and 403.9(b). In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the permittee’s substantial modification submission.

Upon approval by the Executive Director of the substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §§403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per year** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ’s Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a

representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) [rev. 10/14/05] or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **August** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

In addition, each **August** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [rev. 10/22/15] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:
 - (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.
 - (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
 - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [rev. 10/22/15] and (3);
 - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
 - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
 - (3) Control mechanism status.
 - Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
 - Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
 - Include the type of general control mechanisms; and
 - Report all NSCIU annual evaluations performed, as applicable.

- (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
 - Total number of inspections performed; and
 - Total number of sampling events conducted.
 - (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:
 - Compliant (C) - no violations during the pretreatment year reporting period;
 - Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
 - Significant Noncompliance (SNC) - in accordance with requirements described above in this section.
 - (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
 - c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.
 - d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.
 - e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.
 - f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.
 - g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a

MAHL. (See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.)

- h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.
- i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. *[rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158]*.

- 5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No.:** _____ **Permittee:** _____ **Treatment Plant:** _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS ¹ LIST																
Industrial User Name	SIC or NAICS Code	CIU ²	CONTROL MECHANISM				New User ³ (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period ⁴ (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
			Y/N or NR ⁵	IND or GEN or NR	Last Action ⁶	TBLLs or TBLLs only ⁷				REPORTS				NSCIU Certifications	Effluent Limits	Narrative Standards
										BMR	90-Day	Semi-Annual	Self-Monitoring ⁸			

- 1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.
- 2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).
- 3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.
- 4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).
- 5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.
- 6 Permit or NSCIU evaluations as applicable.
- 7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.
- 8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

**TPDES Pretreatment Program Annual Report Form for
Industrial User Inventory Modifications**

Reporting month/year: _____, _____ **to** _____, _____

TPDES Permit No: _____ **Permittee:** _____ **Treatment Plant:** _____

INDUSTRIAL USER INVENTORY MODIFICATIONS					
FACILITY NAME, ADDRESS AND CONTACT PERSON	ADD, CHANGE, DELETE (Including categorical reclassification to NSCIU or MTCIU)	IF DELETION: Reason For Deletion	IF ADDITION OR SIGNIFICANT CHANGE:		
			PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE ⁹ (In gpd) R = Regulated U = Unregulated T = Total

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No:** _____ **Permittee:** _____ **Treatment Plant:** _____

Overall SNC _____% **SNC ¹⁰ based on:** **Effluent Violations** _____%
Reporting Violations _____% **Narrative Standard Violations** _____%

Noncompliant Industrial Users - Enforcement Actions Taken															
Industrial User Name	Nature of Violation ¹¹				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		

10 # %

_____ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)

_____ Reporting Requirements [WENDB-PSNC]

_____ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

**TPDES Pretreatment Program Annual Report Form for
Influent and Effluent Monitoring Results¹**

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ **Permittee:** _____ **Treatment Plant:** _____

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
METALS, CYANIDE AND PHENOLS											
Antimony, Total											
Arsenic, Total											
Beryllium, Total											
Cadmium, Total											
Chromium, Total											
Chromium (Hex)											
Chromium (Tri) ⁵											
Copper, Total											
Lead, Total											
Mercury, Total											
Nickel, Total											
Selenium, Total											
Silver, Total											
Thallium, Total											
Zinc, Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
Cyanide, Available ⁶											
Cyanide, Total											
Phenols, Total											
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile											
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene											
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS											
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachloro- cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											
Naphthalene											
Nitrobenzene											
N-Nitrosodimethylamine											
N-Nitrosodi-n-Propylamine											
N-Nitrosodiphenylamine											
Phenanthrene											
Pyrene											
1,2,4-Trichlorobenzene											
PESTICIDES											
Aldrin											
Alpha- hexachlorocyclohexane (BHC)											
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
4,4-DDT											
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) <i>The sum of PCB concentrations not to exceed daily average value.</i>											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether ⁷											
Carbaryl											
Chlorpyrifos											
Cresols											
2,4-D											
Danitol ⁸											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans ⁹											
Diuron											
Epichlorohydrin ⁹											
Ethylene glycol ⁹											
Fluoride											
Guthion											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachlorophene											
4,4-Isopropylidenediphenol (bisphenol A) ⁹											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) ⁹											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion											
Pentachlorobenzene											
Pyridine											
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene											
2,4,5-TP (Silvex)											
Tributyltin ⁹											
2,4,5-Trichlorophenol											
TTHM (Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL ²	Daily Average Effluent Limit (µg/L) ³	Effluent Measured in µg/L (Actual Concentration or < MAL) ⁴			
		Date	Date	Date	Date			Date	Date	Date	Date
Trihalomethanes)											

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).
2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

The % of the MAHL is to be calculated using the following formulas:

$$\text{Equation A: } L_{\text{INF}} = (C_{\text{POLL}} \times Q_{\text{WWTP}} \times 8.34) / 1000$$

$$\text{Equation B: } L\% = (L_{\text{INF}} / \text{MAHL}) \times 100$$

Where:

L_{INF} = Current Average (Avg) influent loading in lb/day
 C_{POLL} = Avg concentration in $\mu\text{g/L}$ of all influent samples collected during the pretreatment year.
 Q_{WWTP} = Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
 $L\%$ = % of the MAHL
 MAHL = Calculated MAHL in lb/day
 8.34 = Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.
4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.
5. Report result by subtracting Hexavalent Chromium from Total Chromium.
6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.
7. Hydrolyzes in water. Will not require permittee to analyze at this time.
8. EPA procedure not approved. Will not require permittee to analyze at this time.
9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

BIOMONITORING REQUIREMENTS**CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER**

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
- b. The permittee shall conduct the following toxicity tests using the test organisms, procedures and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
 - 1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
 - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 33%, 44%, 59%, 79%, and 100% effluent. The critical dilution, defined as 79% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
 - 1) If none of the first four consecutive quarterly tests demonstrates

significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

- 2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
 - 1) a control mean survival of 80% or greater;
 - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
 - 3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
 - 4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 5) a critical dilution CV% of 40 or less for young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test, unless statistically significant toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid;
 - 6) a percent minimum significant difference of 47 or less for water flea reproduction; and
 - 7) a PMSD of 30 or less for fathead minnow growth.
- b. Statistical Interpretation
 - 1) For the water flea survival and reproduction test, the statistical analyses used to determine the inhibition concentration of effluent that would cause a 25% reduction (IC25) in survival or mean young per female shall be as described in the methods manual referenced in Part 1.b.
 - 2) For the fathead minnow larval survival and growth tests, the statistical analyses used to determine the IC25 in survival or growth shall be as described in the methods manual referenced in Part 1.b.
 - 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and

reported correctly. The document entitled “Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)” (EPA 821-B-00-004) provides guidance on determining the validity of test results.

- 4) Most point estimates are derived from a mathematical model that assumes a continuous dose-response relationship. For any test result that demonstrates a non-continuous (threshold) response, or a non-monotonic dose-response relationship, the IC₂₅ should be determined based on the method guidance manual referenced in Item 3.
- 5) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic dose-response relationship may be submitted, prior to the due date, for technical review of test validity and acceptability. The method guidance manual referenced in Item 3 will be used as the basis, along with best professional judgement, for making a determination of test validity and acceptability.

c. Dilution Water

- 1) Dilution water used in the toxicity tests shall be the receiving water collected at a point upstream of the discharge as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days);
 - c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

- 1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
- 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
- 5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
 - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

- 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
- 1) For the water flea, Parameter T4P3B, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter T6P3B, report the IC25 for survival.
 - 3) For the water flea, Parameter T5P3B, enter a "1" if the IC25 for reproduction is less than the critical dilution; otherwise, enter a "0."
 - 4) For the water flea, Parameter T7P3B, report the IC25 for reproduction.
 - 5) For the fathead minnow, Parameter T4P6C, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 6) For the fathead minnow, Parameter T6P6C, report the IC25 for survival.
 - 7) For the fathead minnow, Parameter T5P6C, enter a "1" if the IC25 for growth is less than the critical dilution; otherwise, enter a "0."
 - 8) For the fathead minnow, Parameter T7P6C, report the IC25 for growth.
- d. Enter the following codes for retests only:
- 1) For retest number 1, Parameter 22415, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."
4. Persistent Toxicity
- The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. A significant effect is defined as an IC25 of a specified endpoint (survival, growth, or reproduction) less than the critical dilution. Significant lethality is defined as a survival IC25 less than the critical dilution. Similarly, significant sublethality is defined as a growth or reproduction IC25 less than the critical dilution.
- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution.

The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

- c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.
- d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.
- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting

characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

- 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

- 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates persistent significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	33%	44%	59%	79%	100%
24h						
48h						
End of Test						

1. Is the IC₂₅ for reproduction less than the critical dilution (79%)? _____ YES
_____ NO
2. Is the IC₂₅ for survival less than the critical dilution (79%)? _____ YES _____ NO
3. Enter percent effluent corresponding to each IC₂₅ below:
IC₂₅ survival = _____ %
IC₂₅ reproduction = _____ %

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
33%									
44%									
59%									
79%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

- Is the IC₂₅ for growth less than the critical dilution (79%)? _____ YES _____ NO
- Is the IC₂₅ for survival less than the critical dilution (79%)? _____ YES _____ NO
- Enter percent effluent corresponding to each IC₂₅ below:
 IC₂₅ survival = _____%
 IC₂₅ growth = _____%

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

- a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - 2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:

- 1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
 - 2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
- d. Enter the following codes for retests only:
- 1) For retest number 1, Parameter 22415, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”
 - 2) For retest number 2, Parameter 22416, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action

plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical-specific analyses for the

- identified and suspected pollutant performed during the quarter;
- 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates persistent significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit

of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.

- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

TABLE 2 (SHEET 2 OF 2)
FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010257001, EPA I.D. No. TX0023931, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: North Texas Municipal Water District
P.O. Box 2408
Wylie, Texas 75098

Prepared By: Paula Palmar
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4561

Date: October 3, 2025

Permit Action: Major Amendment with Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for an amendment with renewal of the existing permit to remove effluent limitations and monitoring requirements for Lead and Copper. The existing wastewater treatment facility serves the south-central half of the City of Richardson.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 111 East Buckingham Road, in the City of Richardson, Dallas County, Texas 75081.

Outfall Location:

Outfall Number	Latitude	Longitude
001	32.936386 N	96.739031 W

The treated effluent is discharged to Floyd Branch, thence to Cottonwood Creek, thence to White Rock Creek, thence to White Rock Lake in Segment No. 0827 of the Trinity River Basin. The unclassified receiving water uses are minimal aquatic life use for Floyd Branch; and intermediate aquatic life use for Cottonwood Creek, and White Rock Creek. The designated uses for Segment No. 0827 are primary contact recreation and high

aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Floyd Branch Regional Wastewater Treatment Plant operates both a trickling filter and an activated sludge treatment train. The trickling filter train, which treats up to 2.5 MGD consists of three clarigesters, two trickling filters and a final clarifier. The activated sludge train, which treats up to 2.25 MGD, operates in the plug flow mode and consists of a primary clarifier, two parallel fine bubble diffusers with plug flow aerator basins, and two secondary clarifiers. The treatment units shared by both trains include two traveling bridge dual media (anthracite and sand) filters, and nine banks of ultraviolet disinfection. The Waste Activated Sludge (WAS) from the secondary clarifiers is thickened by Gravity Belt Thickener (GBT) and then diverted to a sludge holding pit or sent directly to the BFP for dewatering. Sludge from the primary clarifier and clarigester is pumped to a sludge holding pit then to a belt filter press. The sludge from the final clarifier is returned by gravity flow to the plant headworks. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, NTMWD 121 Regional Disposal Facility, Permit No. MSW 2294, in Collin County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility receives industrial wastewater.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period August 2023 through August 2025. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), total copper and total lead. The average of Daily Average value for *Escherichia coli* (*E.coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	2.91
CBOD ₅ , mg/l	2.4
TSS, mg/l	1.32
NH ₃ -N, mg/l	
March - November	0.13
December – February	0.092
<i>E. coli</i> , CFU or MPN per 100 ml	2
Total Copper, mg/l	0.011
Total Lead, mg/l	0.00028

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.75 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,944 gallons per minute.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD ₅	10	396	15	25
TSS	15	594	25	40
NH ₃ -N				
March - November	2	79	4	10
December - February	4	158	6	10
DO (minimum)	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
DO	Two/week
<i>E. coli</i>	Daily

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, NTMWD 121 Regional Disposal Facility, Permit No. MSW 2294, in Collin County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305 which references 40 CFR Part 403, General Pretreatment Regulations for Existing and New Sources of Pollution [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on December 23, 1983, and modified on December 4, 1992. The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of August in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The legal authority and the POTW's pretreatment program are not in compliance with current 40 CFR Part 403 regulations [rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798] and 30 TAC Chapter 305, as amended. The permittee has submitted a modification to its pretreatment program containing some or all of the required [i.e. more stringent] Streamlining Rule provisions to the TCEQ on February 25, 2011, as required by the NTMWD – Wilson Creek Regional WWTP's TPDES Permit No. WQ0012446001, issued February 26, 2010. The modification package includes combining all of the pretreatment programs into one pretreatment program: Buffalo Creek, Stewart Creek West, Floyd Branch Regional, South Mesquite Creek Regional, Rowlett Creek Regional, Wilson Creek Regional, Panther Creek, and Muddy Creek (TPDES Permit Nos. WQ0012047001, WQ0014008001, WQ0010257001, WQ0010221001, WQ0010363001, WQ0012446001,

WQ0014245001, and WQ0014216001). The combined pretreatment program will also include the developing pretreatment programs from the Sabine Creek WWTP (TPDES Permit No. WQ0014469001) and the Sister Grove Regional Water Resource Recovery Facility (TPDES Permit No. WQ0015693001). The substantial modification, amended on November 7, 2011, includes the redevelopment of the technically based local limits (TBLLs) for all WWTPs currently under the approved program, and revisions to the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms) for each customer city for the combined pretreatment program. The Executive Director is currently reviewing this substantial modification for the new combined program. The NTMWD – Floyd Branch Regional's approved pretreatment program will remain in effect as required by this TPDES permit until the modification to combine all the NTMWD's pretreatment programs has been accomplished through the approval process and upon Executive Director approval.

Substantial modifications will be approved in accordance with 40 CFR §403.18, and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 33%, 44%, 59%, 79%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 79% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
 - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
 - (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

H. SUMMARY OF CHANGES FROM APPLICATION

None

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements of the draft permit remain the same as the existing permit requirements.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, Pretreatment, and Biomonitoring sections of the draft permit have been updated.

Total Copper in the existing permit has been removed in the draft permit because NTMWD develop a biotic ligand model that determined a site-specific standard for copper was appropriate. TCEQ and EPA approved a revision to the Texas Surface Water Quality Standards to include the site-specific copper criteria. A review of the facility's effluent copper data demonstrates compliance with the site-specific standard. Total Lead in the existing permit has been removed in the draft permit because a review of facility's effluent lead data demonstrates compliance with the Texas Surface Water Quality Standards. Review of the facility's effluent monitoring data and TexTox screening indicate that Copper and Lead effluent limitations and monitoring requirements are not needed in the permit. Total Lead and Copper Limits have been removed from the permit in compliance with Clean Water Act (CWA) section 402(o) – Anti-Backsliding, because the decision is based on new available information that was not available at the time of previous permit issuance.

Other Requirement No. 4 in the existing permit has been removed in the draft permit.

Other Requirement No. 7 in the existing permit has been removed in the draft permit.

The pretreatment language has been updated from the current permit. The pretreatment requirements will continue until permit expiration.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Floyd Branch, thence to Cottonwood Creek, thence to White Rock Creek, thence to White Rock Lake in Segment No. 0827 of the Trinity River Basin. The unclassified receiving water uses are minimal aquatic life use for Floyd Branch, and intermediate aquatic life use for Cottonwood Creek and White Rock Creek. The designated uses for Segment No. 0827 are primary contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 0827 is not currently listed on the State's inventory of impaired and threatened waters, the 2022 CWA § 303(d) list. However, White Rock Creek above White Rock Lake is listed for bacteria from the headwaters of White Rock Lake upstream to the confluence with McKamy Branch east of the City of Addison (Assessment Unit 0827A_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 colony-forming units (CFU) or most probable number (MPN) of *Escherichia coli*

(*E. coli*) per 100 ml has been continued in the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 615 mg/l total dissolved solids (TDS), 134 mg/l sulfate, and 86.5 mg/l chloride present in the effluent. The segment criteria for Segment No. 0827 are 400 mg/l for TDS, 100 mg/l for sulfate, and 100 mg/l for chlorides. The total dissolved solids (TDS) screening failed in Cottonwood Creek. The applicant provided documentation to support that the increase in effluent TDS, compared to source water, is not greater than typical. Further screening showed that the effluent TDS passed at the segment, White Rock Lake. Therefore, in accordance with the IPs, no additional limits or monitoring are recommended. See Attachment A of this Fact Sheet.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The proposed effluent limitations are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "*Procedures to Implement the Texas Surface Water Quality Standards, Draft 2022*" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any

wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Chronic freshwater criteria are applied in the perennial freshwater stream.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 4.75 MGD and the 7-day, 2-year (7Q2) flow of 2.00 cfs for Cottonwood Creek, the perennial stream. The following critical effluent percentages are being used:

Acute Effluent %:	100%	Chronic Effluent %:	79%
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Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level.

The LTA is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance

document "*Procedures to Implement the Texas Surface Water Quality Standards, Draft 2022*." The segment values are 150 mg/l for hardness (as calcium carbonate), 18 mg/l chlorides, 7.6 standard units for pH, and 9.0 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 4.75 MGD and the harmonic mean flow of 5.01 cfs for Cottonwood Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 59.46%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 0827, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed 24 chronic tests, with no demonstrations of significant toxicity (i.e., no failures) by the water flea or fathead minnow.

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic (or 48-hour acute) WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no demonstrations of significant toxicity during the period of record for either test species, a determination of no reasonable potential was made.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed 24 chronic tests, with no demonstrations of significant toxicity (i.e., no failures) by the water flea or fathead minnow.

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Paula Palmar at (512) 239-4561.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010257001 issued on October 8, 2020.

B. APPLICATION

Application received on May 1, 2024, and additional information received on September 18, 2025.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency. Draft 2022 IP

Texas 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name:

North Texas Municipal Water
District

Permit Number, Outfall:

10257-001

Segment Number:

0827

Enter values needed for screening:		Data Source (edit if different)	
QE - Average effluent flow	4.75	MGD	CC_supersedes_memo_11/12/25 Calculated
QS - Perennial stream harmonic mean flow	5.01	cfs	
QE - Average effluent flow	7.3493	cfs	
CA - TDS - ambient segment concentration	188	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	13	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	31	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	400	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	100	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	100	mg/L	2022 TSWQS, Appendix A
CE - TDS - average effluent concentration	615	mg/L	Permit application
CE - chloride - average effluent concentration	86.5	mg/L	Permit application
CE - sulfate - average effluent concentration	134	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Preliminary Calculations	Load in River	Effluent Load	New Concentration	% Change in	% Change in Assim.
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North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Parameter	QSCA	QECE	Equation 2	Ambient	Capacity
TDS	941.88	4519.8 46	441.91	135.1	119.8
Chloride	65.13	635.71 81	56.71	336.2	50.2
Sulfate	155.31	984.81 19	92.25	197.6	88.8

No further screening for TDS needed

if: **441.91** ≤ **400**

No further screening for chloride needed if:

56.71 ≤ **100**

No further screening for sulfate needed if:

92.25 ≤ **100**

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	544.52
Calculate the LTA	LTA = WLA * 0.93	506.40
Calculate the daily average	Daily Avg. = LTA * 1.47	744.41
Calculate the daily maximum	Daily Max. = LTA * 3.11	1574.91
Calculate 70% of the daily average	70% of Daily Avg. =	521.09
Calculate 85% of the daily average	85% of Daily Avg. =	632.75
No permit limitations needed if:	615 ≤ 521.09	
Reporting needed if:	615 > 521.09	but ≤ 632.75
Permit limits may be needed if:	615 > 632.75	

Reporting needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	159.31
Calculate the LTA	LTA = WLA * 0.93	148.16
Calculate the daily average	Daily Avg. = LTA * 1.47	217.79
Calculate the daily maximum	Daily Max. = LTA * 3.11	460.76
Calculate 70% of the daily average	70% of Daily Avg. =	152.45
Calculate 85% of the daily average	85% of Daily Avg. =	185.12
No permit limitations needed if:	86.5 ≤ 152.45	
Reporting needed if:	86.5 > 152.45	but ≤ 185.12
Permit limits may be needed if:	86.5 > 185.12	

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	147.04			
Calculate the LTA	LTA = WLA * 0.93	136.74			
Calculate the daily average	Daily Avg. = LTA * 1.47	201.01			
Calculate the daily maximum	Daily Max. = LTA * 3.11	425.27			
Calculate 70% of the daily average	70% of Daily Avg. =	140.71			
Calculate 85% of the daily average	85% of Daily Avg. =	170.86			
No permit limitations needed if:	134	≤	140.71	but ≤	170.86
Reporting needed if:	134	>	140.71		
Permit limits may be needed if:	134	>	170.86		

No permit limitations needed for sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 4 - Discharge to a Lake

Applicant Name:	North Texas Municipal Water District
Permit Number, Outfall:	10257-001
Segment Number:	0827

Enter values needed for screening:			Data Source (edit if different)
EF - Effluent <u>fraction</u> at edge of human health MZ	0.08	decimal fraction	Default MZ value
CA - TDS - ambient segment concentration	188	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	13	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	31	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	400	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	100	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	100	mg/L	2022 TSWQS, Appendix A
CE - TDS - average effluent concentration	615	mg/L	Permit application
CE - chloride - average effluent concentration	86.5	mg/L	Permit application
CE - sulfate - average effluent concentration	134	mg/L	Permit application

Screening Equation

$$CC \geq (EF)(CE) + (1-EF)(CA)$$

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Preliminary Calculations	Effluent Load (EF)(CE)	Load in Lake (1-EF)(CA)	New Concentration Equation 3	% Change in Ambient	% Change in Assim. Capacity
Parameter					
TDS	49.2	172.96	222.16	18.2	16.1
Chloride	6.92	11.96	18.88	45.2	6.8
Sulfate	10.72	28.52	39.24	26.6	11.9

No further screening for TDS needed if:	222.16	≤	400
No further screening for chloride needed if:	18.88	≤	100
No further screening for sulfate needed if:	39.24	≤	100

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF			2838.00
Calculate the LTA	LTA = WLA * 0.93			2639.34
Calculate the daily average	Daily Avg. = LTA * 1.47			3879.83
Calculate the daily maximum	Daily Max. = LTA * 3.11			8208.35
Calculate 70% of the daily average	70% of Daily Avg. =			2715.88
Calculate 85% of the daily average	85% of Daily Avg. =			3297.86
No permit limitations needed if:	615	≤	2715.88	
Reporting needed if:	615	>	2715.88	but ≤ 3297.86
Permit limits may be needed if:	615	>	3297.86	

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF			1100.50
Calculate the LTA	LTA = WLA * 0.93			1023.47
Calculate the daily average	Daily Avg. = LTA * 1.47			1504.49
Calculate the daily maximum	Daily Max. = LTA * 3.11			3182.98
Calculate 70% of the daily average	70% of Daily Avg. =			1053.15
Calculate 85% of the daily average	85% of Daily Avg. =			1278.82
No permit limitations needed if:	86.5	≤	1053.15	
Reporting needed if:	86.5	>	1053.15	but ≤ 1278.82
Permit limits may be needed if:	86.5	>	1278.82	

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC - (1-EF)(CA)]/EF	893.50		
Calculate the LTA	LTA = WLA * 0.93	830.96		
Calculate the daily average	Daily Avg. = LTA * 1.47	1221.50		
Calculate the daily maximum	Daily Max. = LTA * 3.11	2584.27		
Calculate 70% of the daily average	70% of Daily Avg. =	855.05		
Calculate 85% of the daily average	85% of Daily Avg. =	1038.28		
No permit limitations needed if:	134	≤	855.05	
Reporting needed if:	134	>	855.05	but ≤ 1038.28
Permit limits may be needed if:	134	>	1038.28	

No permit limitations needed for sulfate

The total dissolved solids (TDS) screening failed in Cottonwood Creek. The applicant provided documentation to support that the increase in effluent TDS, compared to source water, is not greater than typical. Further screening showed that the effluent TDS passed at the segment, White Rock Lake. Therefore, in accordance with the IPs, **no additional limits or monitoring are recommended.**

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXT0X MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	North Texas Municipal Water District
TPDES Permit No.:	WQ0010257001
Outfall No.:	001
Prepared by:	Paula Palmar
Date:	9/22/2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Floyd Branch
Perennial Stream/River within 3 Miles:	Cottonwood Creek
Segment No.:	0827
TSS (mg/L):	9
pH (Standard Units):	7.6
Hardness (mg/L as CaCO ₃):	150
Chloride (mg/L):	18
Effluent Flow for Aquatic Life (MGD):	4.75
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	2
% Effluent for Chronic Aquatic Life (Mixing Zone):	79.00
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	4.75
Harmonic Mean Flow (cfs) for perennial:	5.01
% Effluent for Human Health:	59.46
Human Health Criterion (select: PWS, FISH, or INC)	FISH

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	96250.49	0.536		1.00	Assumed
Cadmium	6.60	-1.13	332434.40	0.251		1.00	Assumed
Chromium (total)	6.52	-0.93	429096.00	0.206		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	429096.00	0.206		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	205996.83	0.350		1.00	Assumed
Lead	6.45	-0.80	485966.12	0.186		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	139985.09	0.443		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	249534.28	0.308		1.00	Assumed
Zinc	6.10	-0.70	270414.67	0.291		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.0	N/A	1.72	N/A	2.53	5.35
Aluminum	991	N/A	991	N/A	568	N/A	835	1766
Arsenic	340	150	635	354	364	273	401	849
Cadmium	12.7	0.326	50.8	1.65	29.1	1.27	1.86	3.94
Carbaryl	2.0	N/A	2.0	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.4	0.0051	1.38	0.0039	0.0057	0.0121
Chlorpyrifos	0.083	0.041	0.083	0.052	0.048	0.040	0.059	0.124
Chromium (trivalent)	794	103	3861	636	2212	490	720	1522
Chromium (hexavalent)	15.7	10.6	15.7	13.4	9.00	10.3	13.2	28.0
Copper	20.8	13.4	59.4	48.4	34.0	37.2	50.0	106
Cyanide (free)	45.8	10.7	45.8	13.5	26.2	10.4	15.3	32.4
4,4'-DDT	1.1	0.001	1.1	0.0013	0.630	0.0010	0.0014	0.0030
Demeton	N/A	0.1	N/A	0.127	N/A	0.097	0.143	0.303
Diazinon	0.17	0.17	0.17	0.215	0.097	0.166	0.143	0.303
Dicofol [Kelthane]	59.3	19.8	59.3	25.1	34.0	19.3	28.4	60.0
Dieldrin	0.24	0.002	0.24	0.0025	0.138	0.0019	0.0029	0.0061
Diuron	210	70	210	89	120	68	100	212
Endosulfan I (<i>alpha</i>)	0.22	0.056	0.22	0.071	0.126	0.055	0.080	0.170
Endosulfan II (<i>beta</i>)	0.22	0.056	0.22	0.071	0.126	0.055	0.080	0.170
Endosulfan sulfate	0.22	0.056	0.22	0.071	0.126	0.055	0.080	0.170
Endrin	0.086	0.002	0.086	0.0025	0.049	0.0019	0.0029	0.0061
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.013	N/A	0.010	0.014	0.030
Heptachlor	0.52	0.004	0.52	0.0051	0.298	0.0039	0.0057	0.0121
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	1.126	0.101	0.645	0.078	0.115	0.243
Lead	100	3.90	538	26.5	308	20.4	30.0	64
Malathion	N/A	0.01	N/A	0.013	N/A	0.010	0.014	0.030
Mercury	2.4	1.3	2.4	1.65	1.38	1.27	1.86	3.94
Methoxychlor	N/A	0.03	N/A	0.038	N/A	0.029	0.043	0.091
Mirex	N/A	0.001	N/A	0.0013	N/A	0.0010	0.0014	0.0030
Nickel	660	73.3	1491	210	854	161	237	502
Nonylphenol	28	6.6	28	8.4	16.0	6.43	9.5	20.0
Parathion (ethyl)	0.065	0.013	0.065	0.016	0.037	0.013	0.019	0.039
Pentachlorophenol	15.9	12.2	15.9	15.5	9.1	11.9	13.4	28.4
Phenanthrene	30	30	30	38.0	17.2	29.2	25.3	53.5
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.0	0.018	1.15	0.014	0.020	0.042
Selenium	20	5	20	6.33	11.5	4.87	7.2	15.2
Silver	0.8	N/A	5.27	N/A	3.02	N/A	4.44	9.4
Toxaphene	0.78	0.0002	0.78	0.00025	0.447	0.00019	0.00029	0.00061
Tributyltin [TBT]	0.13	0.024	0.13	0.030	0.074	0.023	0.034	0.073
2,4,5 Trichlorophenol	136	64	136	81	77.9	62.4	92	194
Zinc	165	167	567	724	325	557	478	1011

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	193.40	179.86	264.39	559.36
Aldrin	1.146E-05	1.147E-05	1.147E-04	1.93E-05	1.79E-05	2.64E-05	5.58E-05
Anthracene	1109	1317	13170	2215	2060	3028	6406
Antimony	6	1071	10710	1801.1	1675.0	2462.3	5209.3

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	977.1	908.7	1335.7	2826.0
Benzidine	0.0015	0.107	1.07	0.1799	0.1673	0.2460	0.5204
Benzo(a)anthracene	0.024	0.025	0.25	0.042	0.039	0.057	0.122
Benzo(a)pyrene	0.0025	0.0025	0.025	0.0042	0.0039	0.006	0.012
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.4616	0.4293	0.631	1.335
Bis(2-chloroethyl)ether	0.60	42.83	428.3	72.03	66.99	98.47	208.32
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	12.7	11.8	17.4	36.7
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	462.5	430.1	632.2	1338
Bromoform [Tribromomethane]	66.9	1060	10600	1783	1658	2437	5156
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	77.4	71.9	105.8	223.7
Chlordane	0.0025	0.0025	0.025	0.0042	0.0039	0.006	0.012
Chlorobenzene	100	2737	27370	4603	4281	6292	13313
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	307.8	286.2	420.7	890.1
Chloroform [Trichloromethane]	70	7697	76970	12944	12038	17696	37438
Chromium (hexavalent)	62	502	5020	844	785	1154	2442
Chrysene	2.45	2.52	25.2	4.24	3.94	5.8	12.3
Cresols [Methylphenols]	1041	9301	93010	15641	14547	21383	45240
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.0034	0.0031	0.0046	0.0097
4,4'-DDE	0.00013	0.00013	0.0013	0.00022	0.00020	0.00030	0.00063
4,4'-DDT	0.0004	0.0004	0.004	0.0007	0.0006	0.0009	0.0019
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	795	740	1087	2301
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	7.130	6.631	9.748	20.62
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	1001	931	1368	2894
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	5548	5160	7585	16046
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	3.77	3.50	5.15	10.90
1,2-Dichloroethane	5	364	3640	612.1	569.3	836.9	1770.5
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	92685.1	86197.1	126709.8	268073.0
Dichloromethane [Methylene Chloride]	5	13333	133330	22422.1	20852.5	30653.2	64851.4
1,2-Dichloropropane	5	259	2590	435.6	405.1	595.5	1259.8
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	200.12	186.11	273.6	578.8
Dicofol [Kelthane]	0.30	0.30	3	0.50	0.469	0.69	1.46
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000034	0.000031	0.000046	0.000097
2,4-Dimethylphenol	444	8436	84360	14187	13194	19395	41032
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	155	145	212	449
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.34E-07	1.25E-07	1.83E-07	3.88E-07
Endrin	0.02	0.02	0.2	0.034	0.031	0.046	0.097
Epichlorohydrin	53.5	2013	20130	3385	3148	4628	9791
Ethylbenzene	700	1867	18670	3140	2920	4292	9081
Ethylene Glycol	46744	1.68E+07	1.68E+08	28252518	26274842	38624018	81714759
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.00017	0.00016	0.00023	0.00049
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0005	0.0005	0.0007	0.0014
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0011	0.0011	0.0016	0.0033
Hexachlorobutadiene	0.21	0.22	2.2	0.370	0.344	0.506	1.070
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	0.014	0.013	0.019	0.041
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	0.437	0.407	0.598	1.26
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	0.573	0.533	0.784	1.66
Hexachlorocyclopentadiene	10.7	11.6	116	19.5	18.1	26.7	56
Hexachloroethane	1.84	2.33	23.3	3.92	3.64	5.36	11.3

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Hexachlorophene	2.05	2.90	29	4.88	4.54	6.67	14.1
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	26877	24996	36743	77736
Lead	1.15	3.83	38.3	34.6	32.2	47.3	100.1
Mercury	0.0122	0.0122	0.122	0.021	0.019	0.028	0.059
Methoxychlor	2.92	3.0	30	5.0	4.69	6.9	14.6
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1668244	1551467	2280656	4825062
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	17627.6	16393.6	24098.6	50984
Nickel	332	1140	11400	4332	4029	5923	12531
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	3150	2929	4306	9110
N-Nitrosodiethylamine	0.0037	2.1	21	3.532	3.284	4.828	10.214
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	7.063	6.569	9.656	20.43
Pentachlorobenzene	0.348	0.355	3.55	0.60	0.56	0.82	1.73
Pentachlorophenol	0.22	0.29	2.9	0.488	0.454	0.67	1.41
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0011	0.0010	0.0015	0.0031
Pyridine	23	947	9470	1592.6	1481.1	2177	4606
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.404	0.375	0.55	1.17
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	44.31	41.21	60.58	128.2
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	470.9	437.9	643.7	1361.9
Thallium	0.12	0.23	2.3	0.387	0.360	0.529	1.12
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.018	0.017	0.025	0.054
2,4,5-TP [Silvex]	50	369	3690	621	577	848	1795
1,1,1-Trichloroethane	200	784354	7843540	1319046	1226713	1803268	3815077
1,1,2-Trichloroethane	5	166	1660	279.2	259.6	381.6	807.4
Trichloroethylene [Trichloroethene]	5	71.9	719	120.9	112.5	165.3	349.7
2,4,5-Trichlorophenol	1039	1867	18670	3140	2920	4292	9081
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	27.748	25.806	37.93	80.26

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Aldrin	1.77	2.15
Aluminum	584	710
Arsenic	281	341
Cadmium	1.31	1.58
Carbaryl	1.18	1.43
Chlordane	0.0040	0.0049
Chlorpyrifos	0.041	0.050
Chromium (trivalent)	504	612
Chromium (hexavalent)	9.26	11.2
Copper	35.0	42.5
Cyanide (free)	10.7	13.0
4,4'-DDT	0.0010	0.0012
Demeton	0.100	0.122
Diazinon	0.100	0.122
Dicofol [Kelthane]	19.9	24.1
Dieldrin	0.0020	0.0024
Diuron	70	85
Endosulfan I (<i>alpha</i>)	0.056	0.068

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

Endosulfan II (<i>beta</i>)	0.056	0.068
Endosulfan sulfate	0.056	0.068
Endrin	0.0020	0.0024
Guthion [Azinphos Methyl]	0.010	0.012
Heptachlor	0.0040	0.0049
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.080	0.097
Lead	21.0	25.5
Malathion	0.010	0.012
Mercury	1.30	1.58
Methoxychlor	0.030	0.037
Mirex	0.0010	0.0012
Nickel	166	202
Nonylphenol	6.62	8.0
Parathion (ethyl)	0.013	0.016
Pentachlorophenol	9.4	11.4
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls [PCBs]	0.014	0.017
Selenium	5.01	6.09
Silver	3.11	3.77
Toxaphene	0.00020	0.00024
Tributyltin [TBT]	0.024	0.029
2,4,5 Trichlorophenol	64.2	77.9
Zinc	334	406

	70% of Daily Avg.	85% of Daily Avg.
Human Health		
<i>Parameter</i>	<i>(µg/L)</i>	<i>(µg/L)</i>
Acrylonitrile	185.07	224.73
Aldrin	0.000018	0.000022
Anthracene	2119	2574
Antimony	1723.6	2092.9
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	935.0	1135.4
Benzidine	0.1722	0.2091
Benzo(<i>a</i>)anthracene	0.040	0.049
Benzo(<i>a</i>)pyrene	0.0040	0.0049
Bis(chloromethyl)ether	0.4418	0.5364
Bis(2-chloroethyl)ether	68.93	83.70
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	12.2	14.8
Bromodichloromethane [Dichlorobromomethane]	442.6	537.4
Bromoform [Tribromomethane]	1706	2071
Cadmium	N/A	N/A
Carbon Tetrachloride	74.0	89.9
Chlordane	0.0040	0.0049
Chlorobenzene	4405	5349
Chlorodibromomethane [Dibromochloromethane]	294.5	357.6
Chloroform [Trichloromethane]	12387	15041
Chromium (hexavalent)	808	981
Chrysene	4.06	4.92
Cresols [Methylphenols]	14968	18176
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0032	0.0039
4,4'-DDE	0.00021	0.00025

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

4,4'-DDT	0.0006	0.0008
2,4'-D	N/A	N/A
Danitol [Fenprothrin]	761	924
1,2-Dibromoethane [Ethylene Dibromide]	6.824	8.286
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	958	1163
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	5309	6447
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	3.60	4.38
1,2-Dichloroethane	585.8	711.3
1,1-Dichloroethylene [1,1-Dichloroethene]	88696.8	107703.3
Dichloromethane [Methylene Chloride]	21457.3	26055.2
1,2-Dichloropropane	416.8	506.1
1,3-Dichloropropene [1,3-Dichloropropylene]	191.51	232.5
Dicofol [Kelthane]	0.483	0.59
Dieldrin	0.000032	0.000039
2,4-Dimethylphenol	13576	16486
Di- <i>n</i> -Butyl Phthalate	149	181
Dioxins/Furans [TCDD Equivalents]	1.28E-07	1.56E-07
Endrin	0.032	0.039
Epichlorohydrin	3240	3934
Ethylbenzene	3005	3648
Ethylene Glycol	27036812	32830415
Fluoride	N/A	N/A
Heptachlor	0.00016	0.00020
Heptachlor Epoxide	0.0005	0.0006
Hexachlorobenzene	0.0011	0.0013
Hexachlorobutadiene	0.354	0.430
Hexachlorocyclohexane (<i>alpha</i>)	0.014	0.016
Hexachlorocyclohexane (<i>beta</i>)	0.418	0.508
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.549	0.666
Hexachlorocyclopentadiene	18.7	22.7
Hexachloroethane	3.75	4.55
Hexachlorophene	4.67	5.67
4,4'-Isopropylidenediphenol [Bisphenol A]	25720	31232
Lead	33.1	40.2
Mercury	0.020	0.024
Methoxychlor	4.83	5.9
Methyl Ethyl Ketone	1596459	1938558
Methyl <i>tert</i> -butyl ether [MTBE]	16869.0	20483.8
Nickel	4146	5034
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3014	3660
N-Nitrosodiethylamine	3.380	4.104
N-Nitroso-di- <i>n</i> -Butylamine	6.759	8.208
Pentachlorobenzene	0.57	0.69
Pentachlorophenol	0.467	0.567
Polychlorinated Biphenyls [PCBs]	0.0010	0.0013
Pyridine	1524.0	1850.6
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.386	0.469
1,1,2,2-Tetrachloroethane	42.41	51.49
Tetrachloroethylene [Tetrachloroethylene]	450.6	547.2
Thallium	0.370	0.449
Toluene	N/A	N/A
Toxaphene	0.018	0.021

North Texas Municipal Water District TPDES Permit No. WQ0010257001
Fact Sheet and Executive Director's Preliminary Decision

2,4,5-TP [Silvex]	594	721
1,1,1-Trichloroethane	1262288	1532778
1,1,2-Trichloroethane	267.1	324.4
Trichloroethylene [Trichloroethene]	115.7	140.5
2,4,5-Trichlorophenol	3005	3648
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	26.554	32.244