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.

City of Garland (CN600328694) operates the Rowlett Creek Wastewater Treatment Plant (RN100619725), a domestic wastewater treatment facility. The facility is located at 2500 East Centerville Road, in Garland, Dallas County, Texas 75040. The application is for renewal of the existing Texas Pollutant Discharge Elimination System (TPDES) No. WQ0010090002, to treat and discharge an average flow of 24 million gallons per day (MGD) via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia, and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. is treated by conventional activated sludge and trickling filter process plant. The treatment plan includes step screens, grit removal, primary clarification, trickling filters, aeration basins for activated sludge process, secondary clarification, sand filtration, and disinfection.

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.

LA Ciudad de Garland (CN600328694) opera la planta de tratamiento de aguas residuals de Rowlett Creek RN100619725, una planta de tratamineto de aguas residuals domésticas. La instalación está ubicada en 2500 East Centerville Road, en la Ciudad de Garland, Condado de Dallas, Texas 75040. La solicitus es para removal el permiso de vertimiento de aguas residuals tratadas, autorizado bajo el permiso Texas Pollutant Discharge Elimination System (TPDES) No. WQ0010090002 para tartar y verter 24 millones de galones por dia (MGD) a travez del Outfall 001.

Se espera que las descargas de la instalación contengan demanda carbonacea bioquímica de oxígeno ($DCBO_5$), solidos suspendidos totals (SST), amonia, y *Escherichia coli*. Contaminantes adicionales se encuentran en el Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0. está tratado por lodos activados y filtros percoladores. La planta cuenta con tamizado, desarenador, clarificación primaria, tanque para aireación en el proceso de lodos activados, filtros percoladores, clarificacion secundaria, filtración con arena, y desifección.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010090002

APPLICATION. City of Garland, 200 North 5th Street, Garland, Texas 75040, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010090002 (EPA I.D. No. TX0024686) to authorize the discharge of treated wastewater at a volume not to exceed a annual average flow of 24,000,000 gallons per day. The domestic wastewater facility is located at 2500 East Centerville Road, in the city of Garland, in Dallas County, Texas 75040. The discharge route is from the plant site to Duck Creek; thence to East Fork Trinity River. TCEQ received this application on October 29, 2024. The permit application will be available for viewing and copying at South Garland Branch Library, Reference, 4845 Broadway Boulevard, Garland, 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=-96.5986,32.90327&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 City of Garland at the address stated above or by calling Mr. James Sacker, Wastewater Director, at 972-205-2874.

Issuance Date: November 12, 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
RENOVACION

PERMISO NO. WQ0010090002

SOLICITUD. La ciudad de Garland, 200 North 5th Street, Garland, Texas 75040 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010090002 (EPA I.D. No. TX0024686) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 24,000,000 galones por día. La planta está ubicada en 2500 East Centerville Road, Garland, en el Condado de Dallas, Texas. La ruta de descarga es del sitio de la planta a Duck Creek; luego al East Fork del Río Trinity. La TCEQ recibió esta solicitud el 29 de octubre, 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la sucursal sur de la librería pública de la Ciudad de Garland (South Garland Branch Library), 4845 Broadway Boulevard, Garland, 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=-96.5986,32.90327&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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas 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 especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia 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 de la Ciudad de Garland a la dirección indicada arriba o llamando a James Sacker, Director de Aguas Residuales al 972-205-2874.

Fecha de emission: 12 de noviembre de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010090002

APPLICATION AND PRELIMINARY DECISION. City of Garland, 200 North 5th Street, Garland, Texas 75040, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010090002, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 24,000,000 gallons per day. TCEQ received this application on October 29, 2024.

The facility is located at 2500 East Centerville Road, in the city of Garland, Dallas County, Texas 75040. The treated effluent is discharged to Duck Creek, thence to East Fork Trinity River in Segment No. 0819 of the Trinity River Basin. The unclassified receiving water use is intermediate aquatic life use for Duck Creek. The designated uses for Segment No. 0819 are primary contact recreation and intermediate aquatic life use. 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=-96.5986,32.90327&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 South Garland Branch Library, Reference, 4845 Broadway Boulevard, Garland, in Dallas County, Texas. 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-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

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. 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.**

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 City of Garland at the address stated above or by calling Mr. James Sacker, Wastewater Director, at 972-205-2874.

Issuance Date: July 21, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

RENOVACIÓN

PERMISO NO. WQ0010090002

SOLICITUD Y DECISIÓN PRELIMINAR. La ciudad de Garland, 200 North 5th Street, Garland, Texas 75040, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) una renovación del Permiso No. WQ0010090002 del Sistema de Eliminación de Descarga de Contaminantes de Texas (TPDES), que autoriza la descarga de aguas residuales domésticas tratadas a un flujo promedio anual que no exceda los 24,000,000 de galones por día. La TCEQ recibió esta solicitud el 29 de octubre de 2024.

La instalación está ubicada en 2500 East Centerville Road, en la ciudad de Garland, condado de Dallas, Texas 75040. El efluente tratado se descarga a Duck Creek y de allí a East Fork Trinity River en el segmento n.° 0819 de la cuenca del río Trinity. El uso de agua receptora no clasificada es el uso intermedio de vida acuática para Duck Creek. Los usos designados para el Segmento No. 0819 son recreación de contacto primario y uso intermedio de vida acuática. 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=-96.5986,32.90327&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 South Garland Branch Library, Reference, 4845 Broadway Boulevard, Garland, in Dallas County, Texas. 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.

AVISO DE IDIOMA ALTERNATIVO. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

COMENTARIO PUBLICO / REUNION PUBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es brindar la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. La TCEQ celebra una reunión pública si el Director Ejecutivo determina que existe un grado significativo de interés público en la solicitud o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnado.

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. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas 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 especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. 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.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, 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 al 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 la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de la Ciudad de Garland a la dirección indicada arriba o llamando a James Sacker al 972-205-2874.

Fecha de emission: 21 de julio de 2025

TPDES PERMIT NO.
WQ0010090002
[For TCEQ office use only - EPA I.D. No. TX0024686]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This is a renewal that replaces TPDES Permit No. WQ0010090002 issued on June 1, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Garland

whose mailing address is

200 North 5th Street
Garland, Texas 75040

is authorized to treat and discharge wastes from the City Of Garland Rowlett Creek Wastewater Treatment Facility, SIC Code 4952

located 2500 East Centerville Road, in the city of Garland, Dallas County, Texas 75040

to Duck Creek, thence to East Fork Trinity River in Segment No. 0819 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 REQUIREMENTS Outfall 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 24.0 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 29,920 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (2,002)	15	25	35	One/day	Composite
Total Suspended Solids	15 (3,002)	25	40	60	One/day	Composite
Ammonia Nitrogen						
April - November	2 (400)	4	7	15	One/day	Composite
December - March	4 (801)	5	7	15	One/day	Composite
Total Copper	0.0446 (8.9)	N/A	0.0943	0.136	One/six months	Composite
E. coli, CFU or MPN/100 ml	126	N/A	399	N/A	Five/week	Grab

2. The effluent shall contain a chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l chlorine residual and shall monitor chlorine residual daily by grab sample after the dechlorination process. 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 day 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: Following the final treatment unit. *E. coli* monitoring samples shall be taken at the effluent line sampling point near the equalization basin. (See Attachment A.)
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l (April - November) and 4.0 mg/l (December - March) and shall be monitored once per day 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 nth 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

Pollutant	Ceiling Concentration (Milligrams per kilogram)*
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)(2)(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):

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
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

Pollutant	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

Pollutant	Monthly Average Concentration (milligrams per kilogram)*
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.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

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. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.

D. 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.

E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

F. 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.

G. 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 A facility must be operated by a chief operator or an operator holding a Class A 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. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.

4. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

6. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 4 within 24 hours from the time the permittee becomes aware of the violation followed by a written report within five working days to TCEQ Region 4 and the Enforcement Division (MC 224).

POLLUTANT	MAL mg/l
Total Copper	0.002

   Test methods utilized shall be sensitive enough to demonstrate compliance with the permit effluent limitations. Permit compliance/noncompliance determinations will be based on the effluent limitations contained in this permit with consideration given to the minimum analytical level (MAL) for the parameters specified above.

   When an analysis of an effluent sample for any of the parameters listed above indicates no detectable levels above the MAL and the test method detection level is as sensitive as the specified MAL, a value of zero (0) shall be used for that measurement when making calculations for the self-reporting form. This applies to determinations of daily maximum concentration, calculations of loading and daily averages, and other reportable results.

   When a reported value is zero (0) based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the

form or as a statement in the comments section of the form.

"The reported value(s) of zero (0) for [list parameter(s)] on the self-reporting form for [monitoring period date range] is based on the following conditions: 1) the analytical method used had a method detection level as sensitive as the MAL specified in the permit, and 2) the analytical results contained no detectable levels above the specified MAL."

When an analysis of an effluent sample for a parameter indicates no detectable levels and the test method detection level is not as sensitive as the MAL specified in the permit, or an MAL is not specified in the permit for that parameter, the level of detection achieved shall be used for that measurement when determining calculations and reporting requirements for the self-reporting form. A zero (0) may not be used.

7. 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, five/week may be reduced to three/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.

8. Upon permit issuance, the permittee shall obtain and record effluent sampling results for total dissolved solids (TDS) on a once per two weeks basis. The samples shall be obtained at Outfall 001 and results reported to the TCEQ with the subsequent permit renewal or amendment application.

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 **City of Garland's** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **October 29, 1984,** and modified on **May 28, 1993, February 27, 2010** (partial nonsubstantial Streamlining Rule for the City of Garland only), **October 14, 2020** (nonsubstantial Streamlining Rule), and on **March 1, 2022** (TBLLs).

   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 shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued permit, either:

   1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; **or**

   2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev. 10/14/05]*, and applicable state and local law, including an Enforcement Response Plan and

Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

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 every six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once every three 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 every three 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 **October** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **October** 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 June 2020

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)						
										REPORTS						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				BMR	90-Day	Semi-Annual	Self-Monitoring[8]	NSCIU Certifications	Effluent Limits	Narrative Standards

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 Results[1]

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											
4,4-DDT											

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-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				
PCB-1016							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
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											
Hexachlorophene											

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'-Isoproplidenediphenolediphenol (biphenol 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 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:

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/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 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% 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, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid; and

7) a PMSD of 30 or less for fathead minnow growth, unless statistically significant sublethal toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid.

b. Statistical Interpretation

1) For the water flea survival 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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 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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM:_____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	32%	42%	56%	75%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						

*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%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

1. Is the IC 25 for reproduction less than the critical dilution (100%)? _____ YES _____ NO

2. Is the IC 25 for survival less than the critical dilution (100%)? _____ YES _____ NO

3. Enter percent effluent corresponding to each IC25 below:

   IC25 survival = _____% effluent

   IC25 reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

		Date Time		Date Time
Dates and Times Composites Collected	No. 1 FROM:	_____	TO:	_____
	No. 2 FROM:	_____	TO:	_____
	No. 3 FROM:	_____	TO:	_____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
75%							
100%							

* Coefficient of Variation = standard deviation x 100/mean

1. Is the IC 25 for growth less than the critical dilution (100%)? _____ YES _____ NO

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%									
32%									
42%									
56%									
75%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

2. Is the IC 25 for survival less than the critical dilution (100%)? _____ YES _____ NO

3. Enter percent effluent corresponding to each IC25 below:

IC25 survival = _____% effluent

IC25 reproduction = _____% effluent

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. Except as discussed in item 2.b., 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 (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation 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 item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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 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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

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		

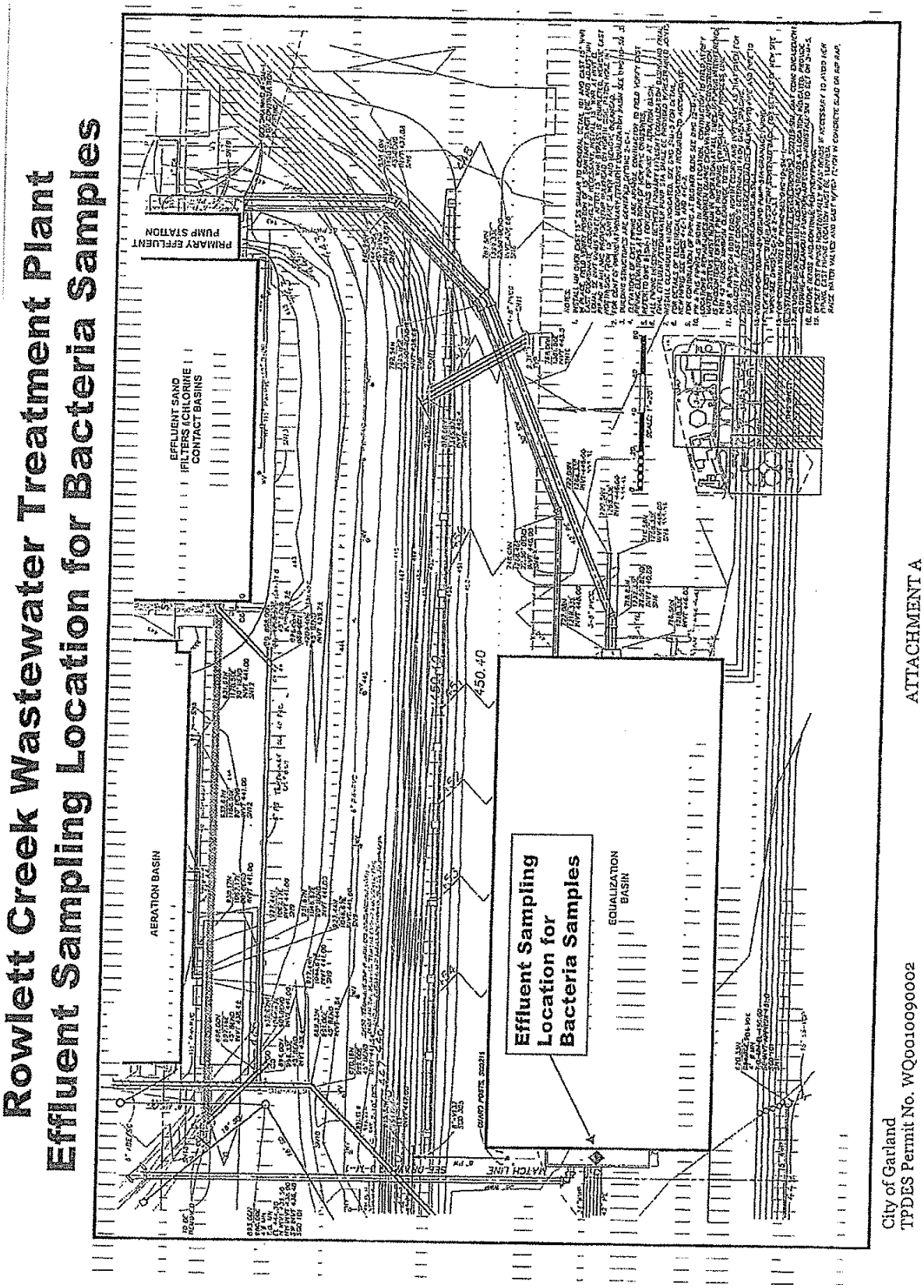
PERCENT SURVIVAL

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

Attachment A – Effluent Sampling Locatiom for Bacteria Smaples
City of Garland
TPDES Permit No. WQ0010090002



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010090002, EPA I.D. No. TX0024686, to discharge to water in the state.

Issuing Office:	Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087
Applicant:	City of Garland 200 North 5th Street, Garland, Texas 75040
Prepared By:	Sujata Sinha Municipal Permits Team Wastewater Permitting Section (MC 148) Water Quality Division (512) 239-1963
Date:	7/7/2025
Permit Action:	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 a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 24.0 million gallons per day (MGD). The existing wastewater treatment facility serves the northern and eastern area of the City of Garland, City of Rowlett, and the City of Sachse.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located 2500 East Centerville Road, in the city of Garland, Dallas County, Texas 75040.

Outfall Location:

Outfall Number	Latitude	Longitude
001	32.868830 N	96.630016 W

The treated effluent is discharged to Duck Creek, thence to East Fork Trinity River in Segment No. 0819 of the Trinity River Basin. The unclassified receiving water use is intermediate aquatic life use for Duck Creek. The designated uses for Segment No. 0819 are primary contact recreation and intermediate aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City Of Garland Rowlett Creek Wastewater Treatment Facility is an activated sludge process plant operated in the conventional mode. Treatment units include step screens, grit basins, primary clarifiers, flow equalization basin, trickling filters, aeration basins, secondary clarifiers, sand filters, rotary drum thickeners, sludge holding tanks, centrifuges, chlorine contact chambers, and dechlorination facilities. 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, Charles M. Hinton, Jr. Regional Landfill, Permit No. 1895A, in Dallas 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 significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period March 2023 through March 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 ($CBOD_5$), and total suspended solids (TSS), ammonia nitrogen (NH_3-N). 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.

Parameter	Average of Daily Avg
Flow, MGD	15
$CBOD_5$, mg/l	4.7
TSS, mg/l	3.7
NH_3-N, mg/l	
April – November	1.5
December – March	1.2
E. coli, CFU or MPN per 100 ml	2

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 24.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 29,920 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	2,002	15	25
TSS	15	3,002	25	40
NH_3-N				
April– November	2	400	4	7
December–March	4	801	5	7
Total Copper	0.0446	8.9	N/A	0.0943
DO (minimum)				
April– November	6.0	N/A	N/A	N/A
December–March	4.0	N/A	N/A	N/A
E. coli, 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 day 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 effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	One/day
TSS	One/day
NH_3-N	
April - November	One/day
December - March	One/day
DO (Minimum)	
April - November	One/day
December - March	One/day
Total Copper	One/six months
E. coli	Five/week

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, Charles M. Hinton, Jr. Regional Landfill, Permit No. 1895A, in Dallas 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 October 29, 1984, and modified on May 28, 1993, February 27, 2010 (partial nonsubstantial Streamlining Rule for the City of Garland only), October 14, 2020 (nonsubstantial Streamlining Rule), and March 1, 2022 (TBLLs). 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 October 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 permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued permit, either: (1) a **WRITTEN CERTIFICATION** that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs

Reassessment Form No. TCEQ-20221], **OR** (2) a **WRITTEN NOTIFICATION** that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 [rev. 10/14/05] and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of the permit.

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 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% 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*).

E. BUFFER ZONE REQUIREMENTS

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements have been added to the draft permit.

E. coli bacteria limits have been continued in the draft permit in accordance with the recent amendments to 30 TAC Chapters 309 and 319.

The pretreatment language has been updated from the current permit. The pretreatment requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

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 Duck Creek, thence to East Fork Trinity River in Segment No. 0819 of the Trinity River Basin. The unclassified receiving water use is intermediate aquatic life use for Duck Creek. The designated uses for Segment No. 0819 are primary contact

recreation and intermediate 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 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. 0819 is currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). The listing is for bacteria in water from the confluence with the Trinity River in Kaufman County to Rockwall-Forney Dam in Kaufman County (Assessment Unit 0819_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 CFU or MPN of E.coli per 100 ml has been added to the draft permit.

This is a public domestic wastewater treatment facility. The facility receives significant industrial wastewater contributions.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 605.93 mg/l total dissolved solids (TDS) present in the effluent. The segment criteria for Segment No. 0819 is 600 mg/l for TDS. **The Standards Implementation Team recommends reporting for total dissolved solids based on a TDS screen**.

Regarding the primary dissolved solids screening for the immediate receiving water, Duck Creek, chloride and sulfate screening are not needed based on the following:

Page 174 of the Procedures to Implement the Texas Surface Water Quality Standards (2010) (IPs) states that screening for TDS is usually sufficient unless the ionic ratios of chloride or sulfate are out of balance. It has been demonstrated that ionic imbalances cause WET testing failures by overwhelming the osmotic capacities of the organisms being tested. Consistent with TCEQ's EPA-approved WET testing procedures, a

reasonable potential (RP) determination was made for this facility based on the last three years of WET testing data. A determination of no RP was made based on those results. Therefore, it can be concluded that the ionic ratios of dissolved solids are not skewed and are protective of aquatic life. Furthermore, consistent with our dissolved solids procedures as written in the TCEQ IPs, screening for chloride and sulfate is not required.

Note that additional dissolved solids screening was performed for the classified segment, East Fork Trinity River (Segment 0819), including TDS, chloride, and sulfate, to ensure that segment numerical criteria would not be exceed at the segment. Based on this additional screening, segment criteria will be maintained and protected, therefore no additional limits or monitoring requirements are needed for chloride, or sulfate. 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 existing limits 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, June 2010" 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).

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Duck Creek. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Duck Creek.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 24.0 MGD and the 7-day, 2-year (7Q2) flow of 1.15 cfs for Duck Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 24.0 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	99.23%	Chronic Effluent %:	97%

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 lower of the two LTAs (acute and chronic) 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, June 2010." The segment values are 119 mg/l for hardness (as calcium carbonate), 45 mg/l chlorides, 7.3 standard units for pH, and 16 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

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for aquatic life protection. The effluent limitation for Total Copper is continued from the current permit. Reported analytical data for Cyanide exceeded 85% of the calculated daily average water quality-based effluent limitation for aquatic life protection. Applicant was requested to provide four additional effluent samples (two samples per week) for two weeks. The four additional analytical sample results submitted after a retest were below the minimum analytical level of 10 microgram per liter; therefore, no numerical effluent limitation is required for Cyanide.

(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 at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 24.0 MGD and the harmonic mean flow of 1.65 cfs for Duck Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 95.75%

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. 0819, 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 five years, the permittee performed twenty-two chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

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 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 zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(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 five years, the permittee performed ten 24-hour acute tests, with no demonstrations of significant mortality.

(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 Sujata Sinha at (512) 239-1963.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010090002 issued on June 1, 2020.

B. APPLICATION

Application received on October 29, 2024, and additional information received on July 7, 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.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

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

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	**City of Garland**
Permit Number, Outfall:	**WQ0010090002, 001**
Segment Number:	**0819**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**24**	MGD	Permit application
QS - Perennial stream harmonic mean flow	**1.65**	cfs	Critical conditions memo
QE - Average effluent flow	**37.1335**	cfs	Calculated
CA - TDS - ambient segment concentration	**372**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration		mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration		mg/L	2010 IP, Appendix D
CC - TDS - criterion	**600**	mg/L	Site Specific Criteria
CC - chloride - segment criterion		mg/L	2018 TSWQS, Appendix A
CC - sulfate - segment criterion		mg/L	2018 TSWQS, Appendix A
CE - TDS - average effluent concentration	**605.93**	mg/L	Permit application
CE - chloride - average effluent concentration		mg/L	Permit application
CE - sulfate - average effluent concentration		mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Preliminary Calculations	**Load in**	**Effluent**	**New**	**% Change**	**% Change in**
Parameter	**River QSCA**	**Load QECE**	**Concentration Equation 2**	**in Ambient**	**Assim. Capacity**
		22500.31			
TDS	613.8		595.98	60.2	98.2
Chloride	0	0	0.00	#DIV/0!	#DIV/0!
Sulfate	0	0	0.00	#DIV/0!	#DIV/0!

No further screening for TDS needed if:	**595.98**	**≤**	**600**
No further screening for chloride needed if:	**0.00**	**≤**	**0**
No further screening for sulfate needed if:	**0.00**	**≤**	**0**

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		610.13		
Calculate the LTA	LTA = WLA * 0.93		567.42		
Calculate the daily average	Daily Avg. = LTA * 1.47		**834.11**		
Calculate the daily maximum	Daily Max. = LTA * 3.11		**1764.68**		
Calculate 70% of the daily average	70% of Daily Avg. =		583.88		
Calculate 85% of the daily average	85% of Daily Avg. =		708.99		
No permit limitations needed if:	**605.93**	**≤**	**583.88**		
Reporting needed if:	**605.93**	**>**	**583.88**	**but ≤**	**708.99**
Permit limits may be needed if:	**605.93**	**>**	**708.99**		

Reporting needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		0.00		
Calculate the LTA	LTA = WLA * 0.93		0.00		
Calculate the daily average	Daily Avg. = LTA * 1.47		**0.00**		
Calculate the daily maximum	Daily Max. = LTA * 3.11		**0.00**		
Calculate 70% of the daily average	70% of Daily Avg. =		0.00		
Calculate 85% of the daily average	85% of Daily Avg. =		0.00		
No permit limitations needed if:	**0**	**≤**	**0.00**		
Reporting needed if:	**0**	**>**	**0.00**	**but ≤**	**0.00**
Permit limits may be needed if:	**0**	**>**	**0.00**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		0.00		

Calculate the LTA	LTA = WLA * 0.93	0.00
Calculate the daily average	Daily Avg. = LTA * 1.47	**0.00**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**0.00**
Calculate 70% of the daily average	70% of Daily Avg. =	0.00
Calculate 85% of the daily average	85% of Daily Avg. =	0.00

No permit limitations needed if:	**0**	**≤**	**0.00**		
Reporting needed if:	**0**	**>**	**0.00**	**but ≤**	**0.00**
Permit limits may be needed if:	**0**	**>**	**0.00**		

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR 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:	City of Garland
TPDES Permit No.:	WQ0010090002
Outfall No.:	001
Prepared by:	Sujata Sinha
Date:	5/1/2025

DISCHARGE INFORMATION

Receiving Waterbody:	Duck Creek
Segment No.:	0819
TSS (mg/L):	5
pH (Standard Units):	7.4
Hardness (mg/L as $CaCO_3$):	119
Chloride (mg/L):	45
Effluent Flow for Aquatic Life (MGD):	24
Critical Low Flow [7Q2] (cfs):	1.15
% Effluent for Chronic Aquatic Life (Mixing Zone):	97.00
% Effluent for Acute Aquatic Life (ZID):	99.23
Effluent Flow for Human Health (MGD):	24
Harmonic Mean Flow (cfs):	1.65
% Effluent for Human Health:	95.75
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	147826.36	0.575		1.00	Assumed
Cadmium	6.60	-1.13	645897.93	0.236		1.00	Assumed
Chromium (total)	6.52	-0.93	741238.38	0.212		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	741238.38	0.212		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	318245.45	0.386		1.00	Assumed
Lead	6.45	-0.80	777721.31	0.205		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	195698.32	0.505		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	457152.29	0.304		1.00	Assumed
Zinc	6.10	-0.70	408057.15	0.329		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.02	N/A	1.73	N/A	2.54	5.38
Aluminum	991	N/A	999	N/A	572	N/A	841	1779
Arsenic	340	150	596	269	341	207	304	644
Cadmium	10.2	0.278	43.3	1.21	24.8	0.932	1.37	2.89
Carbaryl	2.0	N/A	2.02	N/A	1.15	N/A	1.69	3.59
Chlordane	2.4	0.004	2.42	0.00412	1.39	0.00318	0.00466	0.00987
Chlorpyrifos	0.083	0.041	0.0836	0.0423	0.0479	0.0325	0.0478	0.101
Chromium (trivalent)	657	85	3116	415	1785	319	469	992
Chromium (hexavalent)	15.7	10.6	15.8	10.9	9.07	8.41	12.3	26.1
Copper	16.7	11.0	43.7	29.3	25.0	22.6	33.2	70.2
Cyanide (free)	45.8	10.7	46.2	11.0	26.4	8.49	12.4	26.4
4,4'-DDT	1.1	0.001	1.11	0.00103	0.635	0.000794	0.00116	0.00246
Demeton	N/A	0.1	N/A	0.103	N/A	0.0794	0.116	0.246
Diazinon	0.17	0.17	0.171	0.175	0.0982	0.135	0.144	0.305
Dicofol [Kelthane]	59.3	19.8	59.8	20.4	34.2	15.7	23.1	48.8
Dieldrin	0.24	0.002	0.242	0.00206	0.139	0.00159	0.00233	0.00493
Diuron	210	70	212	72.2	121	55.6	81.6	172
Endosulfan I (*alpha*)	0.22	0.056	0.222	0.0577	0.127	0.0445	0.0653	0.138
Endosulfan II (*beta*)	0.22	0.056	0.222	0.0577	0.127	0.0445	0.0653	0.138
Endosulfan sulfate	0.22	0.056	0.222	0.0577	0.127	0.0445	0.0653	0.138

Endrin	0.086	0.002	0.0867	0.00206	0.0497	0.00159	0.00233	0.00493
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0103	N/A	0.00794	0.0116	0.0246
Heptachlor	0.52	0.004	0.524	0.00412	0.300	0.00318	0.00466	0.00987
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.0825	0.650	0.0635	0.0933	0.197
Lead	78	3.04	384	15.3	220	11.8	17.3	36.6
Malathion	N/A	0.01	N/A	0.0103	N/A	0.00794	0.0116	0.0246
Mercury	2.4	1.3	2.42	1.34	1.39	1.03	1.51	3.20
Methoxychlor	N/A	0.03	N/A	0.0309	N/A	0.0238	0.0350	0.0740
Mirex	N/A	0.001	N/A	0.00103	N/A	0.000794	0.00116	0.00246
Nickel	542	60.3	1082	123	620	94.6	139	294
Nonylphenol	28	6.6	28.2	6.80	16.2	5.24	7.70	16.2
Parathion (ethyl)	0.065	0.013	0.0655	0.0134	0.0375	0.0103	0.0151	0.0320
Pentachlorophenol	13.0	10.0	13.1	10.3	7.53	7.94	11.0	23.4
Phenanthrene	30	30	30.2	30.9	17.3	23.8	25.4	53.8
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.02	0.0144	1.15	0.0111	0.0163	0.0345
Selenium	20	5	20.2	5.15	11.5	3.97	5.83	12.3
Silver	0.8	N/A	10.5	N/A	6.03	N/A	8.86	18.7
Toxaphene	0.78	0.0002	0.786	0.000206	0.450	0.000159	0.000233	0.000493
Tributyltin [TBT]	0.13	0.024	0.131	0.0247	0.0751	0.0191	0.0280	0.0592
2,4,5 Trichlorophenol	136	64	137	66.0	78.5	50.8	74.6	158
Zinc	136	137	416	429	238	330	350	741

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	120	112	164	347
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000120	0.0000111	0.0000163	0.0000346
Anthracene	1109	1317	13170	1376	1279	1880	3978
Antimony	6	1071	10710	1119	1040	1529	3235
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	607	564	829	1755
Benzidine	0.0015	0.107	1.07	0.112	0.104	0.152	0.323
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0261	0.0243	0.0356	0.0755
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00261	0.00243	0.00356	0.00755
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.287	0.267	0.391	0.829
Bis(2-chloroethyl)ether	0.60	42.83	428.3	44.7	41.6	61.1	129
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	7.89	7.33	10.7	22.8
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	287	267	392	830
Bromoform [Tribromomethane]	66.9	1060	10600	1107	1030	1513	3202
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	48.0	44.7	65.6	138
Chlordane	0.0025	0.0025	0.025	0.00261	0.00243	0.00356	0.00755
Chlorobenzene	100	2737	27370	2859	2659	3908	8267
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	191	178	261	552

Chloroform [Trichloromethane]	70	7697	76970	8039	7476	10990	23251
Chromium (hexavalent)	62	502	5020	524	488	716	1516
Chrysene	2.45	2.52	25.2	2.63	2.45	3.59	7.61
Cresols [Methylphenols]	1041	9301	93010	9714	9034	13280	28096
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00209	0.00194	0.00285	0.00604
4,4'-DDE	0.00013	0.00013	0.0013	0.000136	0.000126	0.000185	0.000392
4,4'-DDT	0.0004	0.0004	0.004	0.000418	0.000389	0.000571	0.00120
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	494	459	675	1428
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	4.43	4.12	6.05	12.8
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	621	578	849	1797
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	3446	3204	4710	9965
p-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	2.34	2.18	3.19	6.76
1,2-Dichloroethane	5	364	3640	380	354	519	1099
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	57563	53534	78694	166489
Dichloromethane [Methylene Chloride]	5	13333	133330	13925	12951	19037	40276
1,2-Dichloropropane	5	259	2590	271	252	369	782
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	124	116	169	359
Dicofol [Kelthane]	0.30	0.30	3	0.313	0.291	0.428	0.906
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000209	0.0000194	0.0000285	0.0000604
2,4-Dimethylphenol	444	8436	84360	8811	8194	12045	25483
Di-*n*-Butyl Phthalate	88.9	92.4	924	96.5	89.8	131	279
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	8.32E-08	7.74E-08	1.13E-07	2.40E-07
Endrin	0.02	0.02	0.2	0.0209	0.0194	0.0285	0.0604
Epichlorohydrin	53.5	2013	20130	2102	1955	2874	6080
Ethylbenzene	700	1867	18670	1950	1813	2665	5639
Ethylene Glycol	46744	1.68E+07	1.68E+08	17546500	16318245	23987819	50749740
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000104	0.0000971	0.000142	0.000302
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000303	0.000282	0.000414	0.000876
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000710	0.000661	0.000970	0.00205
Hexachlorobutadiene	0.21	0.22	2.2	0.230	0.214	0.314	0.664
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.00877	0.00816	0.0119	0.0253
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.272	0.253	0.371	0.785
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.356	0.331	0.486	1.03
Hexachlorocyclopentadiene	10.7	11.6	116	12.1	11.3	16.5	35.0
Hexachloroethane	1.84	2.33	23.3	2.43	2.26	3.32	7.03
Hexachlorophene	2.05	2.90	29	3.03	2.82	4.14	8.76
4,4'-Isopropylidenediphenol	1092	15982	159820	16692	15524	22819	48278
Lead	1.15	3.83	38.3	19.6	18.2	26.7	56.5
Mercury	0.0122	0.0122	0.122	0.0127	0.0119	0.0174	0.0368
Methoxychlor	2.92	3.0	30	3.13	2.91	4.28	9.06
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1036079	963553	1416423	2996651
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	10948	10181	14966	31664
Nickel	332	1140	11400	2356	2191	3220	6813

Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	1956	1819	2674	5657
N-Nitrosodiethylamine	0.0037	2.1	21	2.19	2.04	2.99	6.34
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	4.39	4.08	5.99	12.6
Pentachlorobenzene	0.348	0.355	3.55	0.371	0.345	0.506	1.07
Pentachlorophenol	0.22	0.29	2.9	0.303	0.282	0.414	0.876
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000668	0.00062	0.000913	0.00193
Pyridine	23	947	9470	989	920	1352	2860
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	0.251	0.233	0.342	0.724
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	27.5	25.6	37.6	79.5
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	292	272	399	845
Thallium	0.12	0.23	2.3	0.240	0.223	0.328	0.694
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0115	0.0107	0.0157	0.0332
2,4,5-TP [Silvex]	50	369	3690	385	358	526	1114
1,1,1-Trichloroethane	200	784354	7843540	819206	761862	1119937	2369390
1,1,2-Trichloroethane	5	166	1660	173	161	237	501
Trichloroethylene [Trichloroethene]	5	71.9	719	75.1	69.8	102	217
2,4,5-Trichlorophenol	1039	1867	18670	1950	1813	2665	5639
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	17.2	16.0	23.5	49.8

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	1.78	2.16
Aluminum	588	715
Arsenic	213	258
Cadmium	0.959	1.16
Carbaryl	1.18	1.44
Chlordane	0.00326	0.00396
Chlorpyrifos	0.0334	0.0406
Chromium (trivalent)	328	398
Chromium (hexavalent)	8.65	10.5
Copper	23.2	28.2
Cyanide (free)	8.74	10.6
4,4'-DDT	0.000816	0.000991
Demeton	0.0816	0.0991
Diazinon	0.101	0.122
Dicofol [Kelthane]	16.1	19.6
Dieldrin	0.00163	0.00198
Diuron	57.1	69.4
Endosulfan I (*alpha*)	0.0457	0.0555
Endosulfan II (*beta*)	0.0457	0.0555
Endosulfan sulfate	0.0457	0.0555
Endrin	0.00163	0.00198
Guthion [Azinphos Methyl]	0.00816	0.00991
Heptachlor	0.00326	0.00396

Hexachlorocyclohexane (*gamma*) [Lindane]	0.0653	0.0793
Lead	12.1	14.7
Malathion	0.00816	0.00991
Mercury	1.06	1.28
Methoxychlor	0.0245	0.0297
Mirex	0.000816	0.000991
Nickel	97.3	118
Nonylphenol	5.39	6.54
Parathion (ethyl)	0.0106	0.0128
Pentachlorophenol	7.74	9.40
Phenanthrene	17.8	21.6
Polychlorinated Biphenyls [PCBs]	0.0114	0.0138
Selenium	4.08	4.95
Silver	6.20	7.53
Toxaphene	0.000163	0.000198
Tributyltin [TBT]	0.0196	0.0238
2,4,5 Trichlorophenol	52.2	63.4
Zinc	245	297

Human Health *Parameter*	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Acrylonitrile	114	139
Aldrin	0.0000114	0.0000139
Anthracene	1316	1598
Antimony	1070	1299
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	580	705
Benzidine	0.106	0.129
Benzo(*a*)anthracene	0.0249	0.0303
Benzo(*a*)pyrene	0.00249	0.00303
Bis(chloromethyl)ether	0.274	0.333
Bis(2-chloroethyl)ether	42.8	51.9
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.54	9.16
Bromodichloromethane [Dichlorobromomethane]	274	333
Bromoform [Tribromomethane]	1059	1286
Cadmium	N/A	N/A
Carbon Tetrachloride	45.9	55.8
Chlordane	0.00249	0.00303
Chlorobenzene	2735	3321
Chlorodibromomethane [Dibromochloromethane]	182	222
Chloroform [Trichloromethane]	7693	9341
Chromium (hexavalent)	501	609
Chrysene	2.51	3.05
Cresols [Methylphenols]	9296	11288
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00199	0.00242
4,4'-DDE	0.000129	0.000157

4,4'-DDT	0.000399	0.000485
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	472	574
1,2-Dibromoethane [Ethylene Dibromide]	4.23	5.14
m-Dichlorobenzene [1,3-Dichlorobenzene]	594	722
o-Dichlorobenzene [1,2-Dichlorobenzene]	3297	4003
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.23	2.71
1,2-Dichloroethane	363	441
1,1-Dichloroethylene [1,1-Dichloroethene]	55086	66890
Dichloromethane [Methylene Chloride]	13326	16181
1,2-Dichloropropane	258	314
1,3-Dichloropropene [1,3-Dichloropropylene]	118	144
Dicofol [Kelthane]	0.299	0.364
Dieldrin	0.0000199	0.0000242
2,4-Dimethylphenol	8431	10238
Di-*n*-Butyl Phthalate	92.3	112
Dioxins/Furans [TCDD Equivalents]	7.96E-08	9.67E-08
Endrin	0.0199	0.0242
Epichlorohydrin	2011	2443
Ethylbenzene	1866	2265
Ethylene Glycol	16791473	20389646
Fluoride	N/A	N/A
Heptachlor	0.0000999	0.000121
Heptachlor Epoxide	0.000289	0.000351
Hexachlorobenzene	0.000679	0.000825
Hexachlorobutadiene	0.219	0.267
Hexachlorocyclohexane (*alpha*)	0.00839	0.0101
Hexachlorocyclohexane (*beta*)	0.259	0.315
Hexachlorocyclohexane (*gamma*) [Lindane]	0.340	0.413
Hexachlorocyclopentadiene	11.5	14.0
Hexachloroethane	2.32	2.82
Hexachlorophene	2.89	3.51
4,4'-Isopropylidenediphenol	15973	19396
Lead	18.7	22.7
Mercury	0.0121	0.0148
Methoxychlor	2.99	3.64
Methyl Ethyl Ketone	991496	1203960
Methyl *tert*-butyl ether [MTBE]	10476	12721
Nickel	2254	2737
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	1872	2273
N-Nitrosodiethylamine	2.09	2.54
N-Nitroso-di-*n*-Butylamine	4.19	5.09
Pentachlorobenzene	0.354	0.430
Pentachlorophenol	0.289	0.351
Polychlorinated Biphenyls [PCBs]	0.000639	0.000776

Pyridine	946	1149
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.239	0.291
1,1,2,2-Tetrachloroethane	26.3	31.9
Tetrachloroethylene [Tetrachloroethylene]	279	339
Thallium	0.229	0.279
Toluene	N/A	N/A
Toxaphene	0.0109	0.0133
2,4,5-TP [Silvex]	368	447
1,1,1-Trichloroethane	783955	951946
1,1,2-Trichloroethane	165	201
Trichloroethylene [Trichloroethene]	71.8	87.2
2,4,5-Trichlorophenol	1866	2265
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	16.4	20.0

Brandon Maldonado

From: Brandon Maldonado
Sent: Thursday, November 7, 2024 1:10 PM
To: Santiago Velez
Cc: JSacker@GarlandTX.gov; Tim O'Brien
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010090002 - Notice of Deficiency Letter

Good afternoon,

Your response to all items are sufficient. I will now work on moving your application to admin complete status

Please let me know if you have any questions

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Santiago Velez <santiago.velez@greshamsmith.com>
Sent: Thursday, November 7, 2024 11:10 AM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Cc: JSacker@GarlandTX.gov; Tim O'Brien <tim.obrien@greshamsmith.com>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010090002 - Notice of Deficiency Letter

Brandon,

Thanks for clarifying.

Item 3 – I have reviewed the wording, and have two comments. On the sixth line, where it states:
facility is located at 2500 East Centerville Road, in ~~near~~ the city of Garland, in Dallas
Please delete the word "near" as striked through above.
For the phone number from James Sacker, listed at the bottom, please change it to 972-205-2874.

Item 4 – Please see attached the completed form you provided, in Spanish.

Thanks,

Santiago Velez, P.E.
Gresham Smith

D: 214.366.6509
M: 214.587.1904

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Thursday, November 7, 2024 9:40 AM
To: Santiago Velez <santiago.velez@greshamsmith.com>
Cc: JSacker@GarlandTX.gov; Tim O'Brien <tim.obrien@greshamsmith.com>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010090002 - Notice of Deficiency Letter

Good morning,

Your response to items 1 and 2 of the NOD are sufficient, however I need more information regarding items 3 and 4.

I apologize for the confusion but items 3 and 4 do not refer to the plain language summery (PLS) but separate documents included in the NOD email. For item 3 we have written the English NORI and have included 2 paragraphs of it in the NOD, please review these paragraphs and let us know if there are any errors or omissions. For Item 4 a translated NORI is attached to my original email. Please fill out the information as instructed in the document and then submit as a Microsoft word document.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: Santiago Velez <santiago.velez@greshamsmith.com>
Sent: Wednesday, November 6, 2024 6:36 PM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Cc: JSacker@GarlandTX.gov; Tim O'Brien <tim.obrien@greshamsmith.com>
Subject: RE: [EXTERNAL] Application to Renew Permit No. WQ0010090002 - Notice of Deficiency Letter

Brandon,

Thanks for your help earlier. Please find attached the signed pages. Also, the plain language for the NORI in English and Spanish are included in the application submitted as Attachment AR-1-0-8F. I have attached the word document of both for your convenience as well.

Please let me know if you need additional information.

Thanks and have a good evening,

Santiago Velez, P.E.
Gresham Smith

D: 214.366.6509
M: 214.587.1904

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Wednesday, November 6, 2024 2:47 PM
To: Santiago Velez <santiago.velez@greshamsmith.com>
Cc: JSacker@GarlandTX.gov
Subject: [EXTERNAL] Application to Renew Permit No. WQ0010090002 - Notice of Deficiency Letter

You don't often get email from brandon.maldonado@tceq.texas.gov. Learn why this is important

Dear Mr. Velez Garcia

The attached Notice of Deficiency (NOD) letter sent on **November 6, 2024,** requests additional information needed to declare the application administratively complete. Please send complete response to my attention by **November 20, 2024.**

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions ...tory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Santiago Velez	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(214) 366-6508		( ) -	santiago.velez@greshamsmith.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:	City of Garland	Job Title:	City Manager
Name *(In Print)*:	Judson Rex	Phone:	(972) 2082816
Signature:		Date:	10/2/24

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: **WQ0010090002**

Applicant: **City of Garland**

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): **Rex, Judson**

Signatory title: **City Manager**

Signature: _____ Date: 10/2/24

(Use blue ink)

Subscribed and Sworn to before me by the said Judson Rex

on this 2 day of October, 20 24.

My commission expires on the 23 day of April, 20 25.

Makayla Bookman

Notary Public

[SEAL]

MAKAYLA BOOKMAN
Notary Public, State of Texas
ID # 13305727-0
My Comm. Expires 04/23/2025

Dallas

County, Texas

Gresham Smith

City of Garland

Rowlett Creek Wastewater Treatment Plant

TPDES Application for Permit Renewal

TPDES Permit No. 10090002

Submitted to:

Texas Commission On Environmental Quality

September 2024

CITY OF GARLAND
ROWLETT CREEK WASTEWATER TREATMENT PLANT
TPDES PERMIT RENEWAL APPLICATION

TABLE OF CONTENTS

I. Administrative Report for Permit Application

Domestic Administrative Report 1.0
- Supplemental Permit Information Form
- Core Data Form

II. Technical Report for Permit Application

Domestic Technical Report 1.0
Worksheet 2.0
Worksheet 2.1
Worksheet 4.0
Worksheet 5.0
Worksheet 6.0

Attachment	Description	Reference
10400	Core Data Form 10400	A.R. 1.0 §3.C
SPIF	TCEQ Form 20971	A.R.1.0
SPIF-5	7.5 Minute USGS Map	SPIF §5
AR-1-0-1	E-Pay Receipt	A.R. 1.0 §1
AR-1-0-8F	Plain Language Summary	A.R. 1.0 §8.F
AR-1-0-13	USGS Topography Map	A.R. 1.0 §13
TR-1-0-2B	Existing Treatment Units	T.R. 1.0 §2.B
TR-1-0-2C	Process Flow Diagram	T.R. 1.0 §2.C
TR-1-0-3	Site Drawing	T.R. 1.0 §3
TR-1-0-6C	TDS Sampling Requirements	T.R. 1.0 §6.C
TR-1-0-6G	Sewage Sludge Solids Management Plan	T.R. 1.0 §6.G
TR-1-0-7	Pollutant Analysis	T.R. 1.0 §7
TR-1-0-8	Facility Operators	T.R. 1.0 §8
WS-4-0-1	Pollutant Analysis Test Results	W.S. 4.0 §1 & T.R. 1.0 §7
WS-5-0-3	Summary of WET Test Results	W.S. 5.0 §3
WS-6-0-1	Service Area Map	W.S. 6.0 §1.E
WS-6-0-2	Effluent Parameters Above MAL	W.S. 6.0 §2.C

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: **City of Garland**

PERMIT NUMBER (If new, leave blank): WQ00 **10090002**

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

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 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☒

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: **727862 & 727863**

Copy of Payment Voucher enclosed? Yes ☒ **Attachment: AR-1-0-1**

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: **N/A**

f. For existing permits:

Permit Number: WQ00 **10090002**

EPA I.D. (TPDES only): TX **0024686**

Expiration Date: **June 1, 2025**

Section 3. Facility Owner (Applicant) and Co-Applicant 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?

City of Garland

(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: **600328694**

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: **Mr.** Last Name, First Name: **Rex, Judson**

Title: **City Manager** Credential: **N/A**

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. **See Attachment 10400**

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: **Velez Garcia, Santiago**

Title: **Project Engineer** Credential: **P.E.**

Organization Name: **Gresham Smith**

Mailing Address: **500 N. Akard St. Ste 3210** City, State, Zip Code: **Dallas, TX, 75201**

Phone No.: **214-366-3509** E-mail Address: **santiago.velez@greshamsmith.com**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: **Mr.** Last Name, First Name: **Sacker, James**

Title: **Wastewater Director** Credential: **N/A**

Organization Name: **City of Garland, Water Utilities**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75040-6811**

Phone No.: **972-205-2874** E-mail Address: **JSacker@GarlandTX.gov**

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: **N/A** Last Name, First Name: **LeMay, Scott**

Title: **Mayor** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **200 North Fifth Street** City, State, Zip Code: **Garland, TX, 75040**

Phone No.: **972-205-2400** E-mail Address: **Mayor@GarlandTX.gov**

B. Prefix: **Mr.** Last Name, First Name: **Bass, Jeff**

Title: **Mayor Pro Tem** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **200 North Fifth Street** City, State, Zip Code: **Garland, TX, 75040**

Phone No.: **469-831-5620** E-mail Address: **Council1@GarlandTX.gov**

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: **Sacker, James**

Title: **Wastewater Director** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75042**

Phone No.: **972-205-2874** E-mail Address: **JSacker@GarlandTX.gov**

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: **Rowe, Larry**

Title: **Plant Manager** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75040-6811**

Phone No.: **972-205-2715** E-mail Address: **LRowe@GarlandTX.gov**

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: **Mr.** Last Name, First Name: **Sacker, James**

Title: **Wastewater Director** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75040-6811**

Phone No.: **972-205-2874** E-mail Address: **JSacker@GarlandTX.gov**

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:

☒ **JSacker@GarlandTX.gov** E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: **Mr.** Last Name, First Name: **Sacker, James**

Title: **Wastewater Director** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75040-6811**

Phone No.: **972-205-2874** E-mail Address: **JSacker@GarlandTX.gov**

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: **South Garland Branch Library**

Location within the building: **Reference**

Physical Address of Building: **4845 Broadway Blvd**

City: **Garland** County: **Dallas**

Contact (Last Name, First Name): **Mills, Katie**

Phone No.: **972-205-3920** Ext.: Click to enter text.

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: AR-1-0-8F

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: N/A

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 100619725**

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):

Rowlett Creek Wastewater Treatment Plant

C. Owner of treatment facility: **City of Garland**

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 Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX 75040-6811**

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

E. Owner of effluent disposal site:

Prefix: **N/A** Last Name, First Name: **N/A**

Title: **N/A** Credential: **N/A**

Organization Name: **City of Garland**

Mailing Address: **2500 E Centerville Rd** City, State, Zip Code: **Garland, TX, 75040-6811**

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): **Garland**

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, Kaufman, Ellis, Henderson, Navarro, Anderson, Freestone, and Leon.**

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: **Santiago Velez Garcia**

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: **N/A**

Amount past due: **N/A**

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:

- 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: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: **WQ0010090002**

Applicant: **City of Garland**

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): **Rex, Judson**

Signatory title: **City Manager**

Signature:_____ Date:_____

(Use blue ink)

Subscribed and Sworn to before me by the said_____

on this_____ day of_____, 20_____.

My commission expires on the_____ day of_____, 20_____.

_____

Notary Public *[SEAL]*

_____

County, Texas

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: SPIF

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

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): **24**

2-Hr Peak Flow (MGD): **43**

Estimated construction start date: **N/A**

Estimated waste disposal start date: **N/A**

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: **1992**

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**.

The Rowlett Creek Wastewater Treatment Plant is an activated sludge process plant operated in the conventional mode. Attachment TR-1-0-2C of this permit application provides a flow diagram of the plant's processes. Wastewater treatment units include step screens, grit basins, primary clarifiers, flow equalization basin, trickling filters, aeration basins, secondary clarifiers, diamond cloth filters, chlorine contact tanks, and de-chlorination facilities.
Solids treatment units include rotary drum thickeners, sludge holding tanks, and centrifuges. Dewatered sludge is transported to the City owned and operated, Charles M. Hinton, Jr., Regional Landfill (TCEQ Permit No. 1895A) in Dallas County. Diamond Cloth Filters located prior to the chlorine contact tanks are not required to meet permitted effluent discharge limits for the plant. These filters are typically operated for polishing purposes only. They may be taken off-line for maintenance purposes or bypassed so that only a portion of the flow is filtered prior to chlorination.

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 TR-1-0-2B		

C. Process Flow Diagram

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

Attachment: **TR-1-0-2C**

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

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

- Latitude: **32.868281**
- Longitude: **-96.629444**

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: **TR-1-0-3**

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

The Rowlett Creek Wastewater Treatment Plant serves the north area of the City of Garland, and the Cities of Rowlett and Sachse.

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
		Choose an item.	
		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: **N/A**

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**.

N/A

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.

N/A

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*.

TDS sampling – See Attachment TR-1-0-6C

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 **N/A** 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.

All the stormwater inside the plant is collected in the stormwater pump station located on the south end of the plant, and pumped to the flow equalization basin, from where it can be routed through the treatment process.

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 BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

See Attachment TR-1-0-6G

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 BOD_5 concentration of the septic waste, and the design BOD_5 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?

☒ 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). **W*ater 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.

See Attachment TR-1-0-7 & Attachment WS-4-0-1.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3.89	10.50	92	Comp	Dec 2023 through March 2024

Total Suspended Solids, mg/l	3.59	26.00	92	Comp	Dec 2023 through March 2024
Ammonia Nitrogen, mg/l	1.10	3.10	92	Comp	Dec 2023 through March 2024
Nitrate Nitrogen, mg/l	22.7	22.7	1	Comp	April 15, 2024 15:00
Total Kjeldahl Nitrogen, mg/l	<0.089	<0.089	1	Grab	May 7, 2024 07:15
Sulfate, mg/l	109	109	1	Grab	May 7, 2024 07:15
Chloride, mg/l	104	104	1	Comp	April 15, 2024 15:00
Total Phosphorus, mg/l	3.63	5.29	58	Comp	April 2023 through April 2024
pH, standard units	Min 6.13	7.27	92	Grab	Dec 2023 through March 2024
Dissolved Oxygen*, mg/l	8.57	10.50	92	Comp	Dec 2023 through March 2024
Chlorine Residual, mg/l	1.82	3.90	92	Comp	Dec 2023 through March 2024
E.coli (CFU/100ml) freshwater	16.53	358	66	Comp	Jan 2024 through March 2024
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	929	929	1	Grab	April 16, 2024 09:00
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<1.30	<1.30	1	Grab	May 7, 2024 07:15
Alkalinity ($CaCO_3$)*, mg/l	61.03	260.00	58	Comp	April 2023 through Feb 2024

*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					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: **See Attachment TR-1-0-8**

Facility Operator's License Classification and Level: Click to enter text.

Facility Operator's License Number: Click to enter text.

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 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: **Dewatering and disposal in municipal landfill**

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
Disposal in Landfill	**Off-site Third-Party Handler or Preparer**	**Not Applicable**		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): Click to enter text.

D. Disposal site

Disposal site name: **Charles M. Hinton, Jr., Regional Landfill**

TCEQ permit or registration number: **1895A**

County where disposal site is located: **Dallas**

E. Transportation method

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

Name of the hauler: **City of Garland**

Hauler registration number: **21342**

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	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ 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 $1x10^{-7}$ 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 Page 55)

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:

30 TAC 210 Reuse Authorization No. R10090002

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:

N/A

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: **Rex, Judson**

Title: **City Manager**

Signature: _____

Date: _____

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 it 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: **Duck Creek**

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

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: Click to enter text.

C. Downstream perennial confluences

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

N/A

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.

N/A

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

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.

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☒ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

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

- ☒ Livestock watering
- ☐ Irrigation withdrawal
- ☒ Fishing
- ☐ Domestic water supply
- ☒ Park activities
- ☒ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 66)

Date of study: **01/12/1999** Time of study: **4:00 pm**

Stream name: **Duck Creek**

Location: **Downstream of the Rowlett Creek WWTP outfall and upstream of the Duck Creek WWTP outfall.**

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☒ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: **0**

Number of stream bends that are moderately defined: **0**

Number of stream bends that are poorly defined: **0**

Number of riffles: **0**

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☒ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Levee, trash, and vegetation.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Glide	**50' from outfall***	**13'**	3.0', 4.0', 4.0', 4.5', 4.0', 2.0'.
Glide	**500' from outfall***	**15'**	3.5', 4.0', 3.0', 3.0', 1.5', 0.5'.
Glide	**600' from outfall***	**13'**	3.5', 4.0', 4.0', 3.5', 3.5', 1.0'.
Glide	**1500' from outfall***	**16'**	2.5', 3.5', 4.0', 4.0', 3.5', 0.067'.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
*** Upstream of Duck Creek WWTP Outfall**			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: **0.002**

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): **29.5**

Length of stream evaluated, in feet: **0.5**

Number of lateral transects made: **4**

Average stream width, in feet: **14**

Average stream depth, in feet: **3.1**

Average stream velocity, in feet/second: **0***

Instantaneous stream flow, in cubic feet/second: **0***

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): **Floating Chip**

Size of pools (large, small, moderate, none): **None**

Maximum pool depth, in feet: **N/A**

*** Velocity was undetectable. Most of the flow upstream flowed into a parallel channel.**

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.

Grab ☒ Composite ☒ **See Attachment WS-4-0-1**

Date and time sample(s) collected: **4/15/2024 15:00**

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<7.8	<7.8	1	50
Aldrin	<0.00113	<0.00113	1	0.01
Aluminum	13.6	13.6	1	2.5
Anthracene	<1.5	<1.5	1	10
Antimony	<1.05	<1.05	1	5
Arsenic	1.28	1.28	1	0.5
Barium	62.2	62.2	1	3
Benzene	<0.496	<0.496	1	10
Benzidine	<4.8	<4.8	1	50
Benzo(a)anthracene	<0.173	<0.173	1	5
Benzo(a)pyrene	<0.364	<0.364	1	5
Bis(2-chloroethyl)ether	<2.16	<2.16	1	10
Bis(2-ethylhexyl)phthalate	<0.277	<0.277	1	10
Bromodichloromethane	8.91	8.91	1	10
Bromoform	<1.33	<1.33	1	10
Cadmium	<0.258	<0.258	1	1
Carbon Tetrachloride	<1.26	<1.26	1	2
Carbaryl	<0.185	<0.185	1	5
Chlordane*	<0.103	<0.103	1	0.2
Chlorobenzene	<0.945	<0.945	1	10
Chlorodibromomethane	<1.75	<1.75	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	24.7	24.7	1	10
Chlorpyrifos	<0.0478	<0.0478	1	0.05
Chromium (Total)	<0.325	<0.325	1	3
Chromium (Tri) **(*1)**	<3.45	<3.45	1	N/A
Chromium (Hex)	<2.8	<2.8	1	3
Copper	20.7	20.7	1	2
Chrysene	<0.222	<0.222	1	5
p-Chloro-m-Cresol	<1.57	<1.57	1	10
4,6-Dinitro-o-Cresol	<1.44	<1.44	1	50
p-Cresol	<2.62	<2.62	1	10
Cyanide **(*2)**	11.0	11.0	1	10
4,4'- DDD	<0.000814	<0.000814	1	0.1
4,4'- DDE	<0.00109	<0.00109	1	0.1
4,4'- DDT	<0.00379	<0.00379	1	0.02
2,4-D	<0.0519	<0.0519	1	0.7
Demeton (O and S)	<0.0478	<0.0478	1	0.20
Diazinon	<0.0478	<0.0478	1	0.5/0.1
1,2-Dibromoethane	<0.631	<0.631	1	10
m-Dichlorobenzene	<1.26	<1.44	2	10
o-Dichlorobenzene	<1.1115	<1.62	2	10
p-Dichlorobenzene	<1.0935	<1.55	2	10
3,3'-Dichlorobenzidine	<0.341	<0.341	1	5
1,2-Dichloroethane	<1.53	<1.53	1	10
1,1-Dichloroethylene	<0.575	<0.575	1	10
Dichloromethane	<0.829	<0.829	1	20
1,2-Dichloropropane	<1.55	<1.55	1	10
1,3-Dichloropropene	<1.95	<1.95	1	10
Dicofol	<0.05	<0.05	1	1
Dieldrin	<0.000953	<0.000953	1	0.02
2,4-Dimethylphenol	<0.649	<0.649	1	10
Di-n-Butyl Phthalate	10.9	10.9	1	10
Diuron	<0.00514	<0.00514	1	0.09
Endosulfan I (alpha)	<0.00107	<0.00107	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.00122	<0.00122	1	0.02
Endosulfan Sulfate	<0.00112	<0.00112	1	0.1
Endrin	<0.00156	<0.00156	1	0.02
Ethylbenzene	<0.878	<0.878	1	10
Fluoride	523	523	1	500
Guthion	<0.0478	<0.0478	1	0.1
Heptachlor	<0.00446	<0.00446	1	0.01
Heptachlor Epoxide	<0.00134	<0.00134	1	0.01
Hexachlorobenzene	<0.307	<0.307	1	5
Hexachlorobutadiene	<0.238	<0.238	1	10
Hexachlorocyclohexane (alpha)	<0.00142	<0.00142	1	0.05
Hexachlorocyclohexane (beta)	<0.00389	<0.00389	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.00299	<0.00299	1	0.05
Hexachlorocyclopentadiene	<4.58	<4.58	1	10
Hexachloroethane	<0.526	<0.526	1	20
Hexachlorophene	<5.389	<10	2	10
Lead	<0.14	<0.14	1	0.5
Malathion	<0.0478	<0.0478	1	0.1
Mercury	<0.001005	0.00181	2	0.005
Methoxychlor	<0.0039	<0.0039	1	2
Methyl Ethyl Ketone	<4.53	<4.53	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	5.14	5.14	1	2
Nitrate-Nitrogen	22,700	22,700	1	100
Nitrobenzene	<1.66	<1.66	1	10
N-Nitrosodiethylamine	<1.75	<1.75	1	20
N-Nitroso-di-n-Butylamine	<1.49	<1.49	1	20
Nonylphenol	<10	<10	1	333
Parathion (ethyl)	<0.0478	<0.0478	1	0.1
Pentachlorobenzene	<1.07	<1.07	1	20
Pentachlorophenol	<0.13835	<0.234	2	5
Phenanthrene	<1.42	<1.42	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.1	<0.1	1	0.2
Pyridine	<2.64	<2.64	1	20
Selenium	<0.685	<0.685	1	5
Silver	<0.118	<0.118	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.32	<1.32	1	20
1,1,2,2-Tetrachloroethane	<1.71	<1.71	1	10
Tetrachloroethylene	<0.9	<0.9	1	10
Thallium	<0.215	<0.215	1	0.5
Toluene	<1.61	<1.61	1	10
Toxaphene	<0.0769	<0.0769	1	0.3
2,4,5-TP (Silvex)	<0.0407	<0.0407	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<1.45	<1.45	1	10
1,1,2-Trichloroethane	<0.747	<0.747	1	10
Trichloroethylene	<1.69	<1.69	1	10
2,4,5-Trichlorophenol	<2	<2	1	50
TTHM (Total Trihalomethanes)	33.6	33.6	1	10
Vinyl Chloride	<0.592	<0.592	1	10
Zinc	35.2	35.2	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 ☒ **See Attachment WS-4-0-1**

Date and time sample(s) collected: **4/15/2024 15:00**

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	<1.05	<1.05	1	5
Arsenic	1.28	1.28	1	0.5
Beryllium	<0.148	<0.148	1	0.5
Cadmium	<0.258	<0.258	1	1
Chromium (Total)	<0.325	<0.325	1	3
Chromium (Hex)	<2.8	<2.8	1	3
Chromium (Tri) **(*1)**	<3.45	<3.45	1	N/A
Copper	20.7	20.7	1	2
Lead	<0.14	<0.14	1	0.5
Mercury	<0.001005	0.00181	2	0.005
Nickel	5.14	5.14	1	2
Selenium	<0.685	<0.685	1	5
Silver	<0.118	<0.118	1	0.5
Thallium	<0.215	<0.215	1	0.5
Zinc	35.2	35.2	1	5
Cyanide **(*2)**	11.0	11.0	1	10
Phenols, Total	<5.8	<5.8	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	<23.1	<23.1	1	50
Acrylonitrile	<7.8	<7.8	1	50
Benzene	<0.496	<0.496	1	10
Bromoform	<1.33	<1.33	1	10
Carbon Tetrachloride	<1.26	<1.26	1	2
Chlorobenzene	<0.945	<0.945	1	10
Chlorodibromomethane	<1.75	<1.75	1	10
Chloroethane	<1.45	<1.45	1	50
2-Chloroethylvinyl Ether	<1.2	<1.2	1	10
Chloroform	24.7	24.7	1	10
Dichlorobromomethane [Bromodichloromethane]	8.91	8.91	1	10
1,1-Dichloroethane	<1.03	<1.03	1	10
1,2-Dichloroethane	<1.53	<1.53	1	10
1,1-Dichloroethylene	<0.575	<0.575	1	10
1,2-Dichloropropane	<1.55	<1.55	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.95	<1.95	1	10
1,2-Trans-Dichloroethylene	<0.903	<0.903	1	10
Ethylbenzene	<0.878	<0.878	1	10
Methyl Bromide	<1.88	<1.88	1	50
Methyl Chloride	<0.941	<0.941	1	50
Methylene Chloride	<0.829	<0.829	1	20
1,1,2,2-Tetrachloroethane	<1.71	<1.71	1	10
Tetrachloroethylene	<0.9	<0.9	1	10
Toluene	<1.61	<1.61	1	10
1,1,1-Trichloroethane	<1.45	<1.45	1	10
1,1,2-Trichloroethane	<0.747	<0.747	1	10
Trichloroethylene	<1.69	<1.69	1	10
Vinyl Chloride	<0.592	<0.592	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	<0.649	<0.649	1	10
2,4-Dichlorophenol	<0.314	<0.314	1	10
2,4-Dimethylphenol	<0.649	<0.649	1	10
4,6-Dinitro-o-Cresol	<1.44	<1.44	1	50
2,4-Dinitrophenol	<1.61	<1.61	1	50
2-Nitrophenol	<1.67	<1.67	1	20
4-Nitrophenol	<4.91	<4.91	1	50
P-Chloro-m-Cresol	<1.57	<1.57	1	10
Pentalchlorophenol	<0.13835	<0.234	2	5
Phenol	<0.423	<0.423	1	10
2,4,6-Trichlorophenol	<1.42	<1.42	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	<1.39	<1.39	1	10
Acenaphthylene	<1.41	<1.41	1	10
Anthracene	<1.5	<1.5	1	10
Benzidine	<4.8	<4.8	1	50
Benzo(a)Anthracene	<0.173	<0.173	1	5
Benzo(a)Pyrene	<0.364	<0.364	1	5
3,4-Benzofluoranthene	<2.04	<2.04	1	10
Benzo(ghi)Perylene	<2.68	<2.68	1	20
Benzo(k)Fluoranthene	<0.375	<0.375	1	5
Bis(2-Chloroethoxy)Methane	<1.76	<1.76	1	10
Bis(2-Chloroethyl)Ether	<2.16	<2.16	1	10
Bis(2-Chloroisopropyl)Ether	<1.79	<1.79	1	10
Bis(2-Ethylhexyl)Phthalate	<0.277	<0.277	1	10
4-Bromophenyl Phenyl Ether	<0.256	<0.256	1	10
Butyl benzyl Phthalate	<0.337	<0.337	1	10
2-Chloronaphthalene	<0.462	<0.462	1	10
4-Chlorophenyl phenyl ether	<1.28	<1.28	1	10
Chrysene	<0.222	<0.222	1	5
Dibenzo(a,h)Anthracene	<0.246	<0.246	1	5
1,2-(o)Dichlorobenzene	<1.1115	<1.62	2	10
1,3-(m)Dichlorobenzene	<1.26	<1.44	2	10
1,4-(p)Dichlorobenzene	<1.0935	<1.55	2	10
3,3-Dichlorobenzidine	<0.341	<0.341	1	5
Diethyl Phthalate	<1.59	<1.59	1	10
Dimethyl Phthalate	<0.299	<0.299	1	10
Di-n-Butyl Phthalate	10.9	10.9	1	10
2,4-Dinitrotoluene	<1.31	<1.31	1	10
2,6-Dinitrotoluene	<1.61	<1.61	1	10
Di-n-Octyl Phthalate	<0.373	<0.373	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.49	<1.49	1	20
Fluoranthene	<1.59	<1.59	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<1.63	<1.63	1	10
Hexachlorobenzene	<0.307	<0.307	1	5
Hexachlorobutadiene	<0.238	<0.238	1	10
Hexachlorocyclo-pentadiene	<4.58	<4.58	1	10
Hexachloroethane	<0.526	<0.526	1	20
Indeno(1,2,3-cd)pyrene	<2.29	<2.29	1	5
Isophorone	<1.64	<1.64	1	10
Naphthalene	<0.542	<0.542	1	10
Nitrobenzene	<1.66	<1.66	1	10
N-Nitrosodimethylamine	<2.02	<2.02	1	50
N-Nitrosodi-n-Propylamine	<2.88	<2.88	1	20
N-Nitrosodiphenylamine	<1.81	<1.81	1	20
Phenanthrene	<1.42	<1.42	1	10
Pyrene	<0.178	<0.178	1	10
1,2,4-Trichlorobenzene	<1.61	<1.61	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	<0.00113	<0.00113	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.00142	<0.00142	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.00389	<0.00389	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.00299	<0.00299	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.00245	<0.00245	1	0.05
Chlordane	<0.103	<0.103	1	0.2
4,4-DDT	<0.00379	<0.00379	1	0.02
4,4-DDE	<0.00109	<0.00109	1	0.1
4,4,-DDD	<0.000814	<0.000814	1	0.1
Dieldrin	<0.000953	<0.000953	1	0.02
Endosulfan I (alpha)	<0.00107	<0.00107	1	0.01
Endosulfan II (beta)	<0.00122	<0.00122	1	0.02
Endosulfan Sulfate	<0.00112	<0.00112	1	0.1
Endrin	<0.00156	<0.00156	1	0.02
Endrin Aldehyde	<0.00118	<0.00118	1	0.1
Heptachlor	<0.00446	<0.00446	1	0.01
Heptachlor Epoxide	<0.00134	<0.00134	1	0.01
PCB-1242	<0.0125	<0.0125	1	0.2
PCB-1254	<0.0078	<0.0078	1	0.2
PCB-1221	<0.0125	<0.0125	1	0.2
PCB-1232	<0.0125	<0.0125	1	0.2
PCB-1248	<0.0125	<0.0125	1	0.2
PCB-1260	<0.0078	<0.0078	1	0.2
PCB-1016	<0.0125	<0.0125	1	0.2
Toxaphene	<0.0769	<0.0769	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 ☐ **See Attachment WS-4-0-1**

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

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: **21**

48-hour Acute: 7

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.

Click to enter text.

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
	See Attachment WS-5-0-3		

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: **8**

Average Daily Flows, in MGD: **0.084**

Significant IUs – non-categorical:

Number of IUs: **2**

Average Daily Flows, in MGD: **0.048**

Other IUs:

Number of IUs: **0**

Average Daily Flows, in MGD: **N/A**

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.

N/A

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.

N/A

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: WS-6-0-1

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 WS-6-0-2				

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: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Telephone number: Click to enter text.

Email address: Click to enter text.

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).

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ 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: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

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.

Click to enter text.

CITY OF GARLAND
ROWLETT CREEK WASTEWATER TREATMENT PLANT
TPDES PERMIT RENEWAL APPLICATION

TABLE OF ATTACHMENTS

Attachment	Description	Reference
10400	Core Data Form 10400	A.R. 1.0 §3.C
SPIF	TCEQ Form 20971	A.R.1.0
SPIF-5	7.5 Minute USGS Map	SPIF §5
AR-1-0-1	E-Pay Receipt	A.R. 1.0 §1
AR-1-0-8F	Plain Language Summary	A.R. 1.0 §8.F
AR-1-0-13	USGS Topography Map	A.R. 1.0 §13
TR-1-0-2B	Existing Treatment Units	T.R. 1.0 §2.B
TR-1-0-2C	Process Flow Diagram	T.R. 1.0 §2.C
TR-1-0-3	Site Drawing	T.R. 1.0 §3
TR-1-0-6C	TDS Sampling Requirements	T.R. 1.0 §6.C
TR-1-0-6G	Sewage Sludge Solids Management Plan	T.R. 1.0 §6.G
TR-1-0-7	Pollutant Analysis	T.R. 1.0 §7
TR-1-0-8	Facility Operators	T.R. 1.0 §8
WS-4-0-1	Pollutant Analysis Test Results	W.S. 4.0 §1 & T.R. 1.0 §7
WS-5-0-3	Summary of WET Test Results	W.S. 5.0 §3
WS-6-0-1	Service Area Map	W.S. 6.0 §1.E
WS-6-0-2	Effluent Parameters Above MAL	W.S. 6.0 §2.C

ATTACHMENT 10400

Core Data Form

Administrative Report 1.0 Section 3C

TCEQ Use Only

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.*)

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ 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 600328694		**RN 100619725**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) | No updates

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* | *If new Customer, enter previous Customer below:*

City of Garland

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

200 North Fifth Street

City	Garland	**State**	TX	**ZIP**	75040	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	Mayor@GarlandTX.gov

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(469) 831-5620		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☒ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

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).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Rowlett Creek Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	2500 E Centerville Rd							
	City	Garland	**State**	TX	**ZIP**	75040	**ZIP + 4**	
24. County	Dallas							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

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).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Treatment of municipal wastewater

34. Mailing Address:	**2500 E Centerville RD**							
	City	**Garland**	**State**	**TX**	**ZIP**	**75040**	**ZIP + 4**	**6811**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(972) 205-2710		( ) -

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.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Santiago Velez	**41. Title:**	Project Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(214 **)** 366-6508		**( ) -**	santiago.velez@greshamsmith.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:		**Job Title:**	
Name *(In Print):*		**Phone:**	**( ) -**
Signature:		**Date:**	

ATTACHMENT SPIF

Supplemental Permit Information Form

Administrative Report 1.0

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: **City of Garland**

   Permit No. WQ00 **10090002** EPA ID No. TX **0024686**

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   2500 East Centerville Road, Garland, Texas 75040. Located approximately 0.25 miles south of the intersection of State Highway 66, on the southeast corner where the Missouri, Kansas, and Texas Railroad tracks cross Centerville Road.

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: **James Sacker**

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: **Wastewater Director**

Mailing Address: **2500 E Centerville Rd**

City, State, Zip Code: **Garland, TX, 75040-6811**

Phone No.: **972-205-2874** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **JSacker@GarlandTX.gov**

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.

N/A

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.

Effluent is discharged via pipeline to Duck Creek; thence to East Fork Trinity River in Segment No. 0819 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). **See Attachment SPIF-5**

   Provide original photographs of any structures 50 years or older on the property. **See Attachment SPIF-6**

   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):

N/A. No construction is proposed.

2. Describe existing disturbances, vegetation, and land use:

Existing disturbances, vegetation, and land use are those typically associated with the operation and maintenance of a wastewater treatment plant.

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

ATTACHMENT SPIF-5

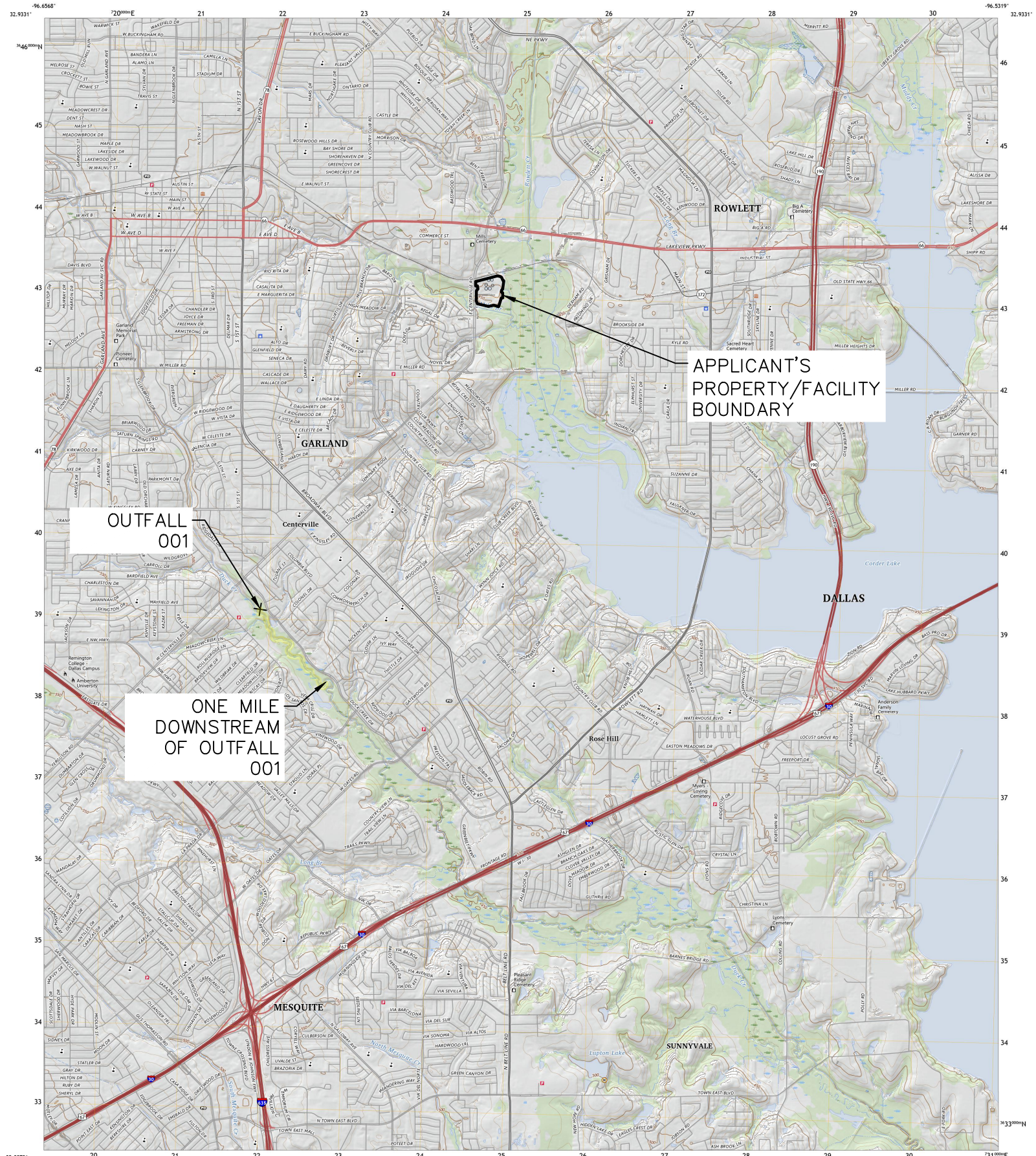
7.5 Minute USGS Map

SPIF Section 5

USGS science for a changing world
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
OnDemand Topo

7.5-MINUTE TOPO QUADRANGLE
Custom Extent
7.5-MINUTE TOPO



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov

MN
GN
2°48'
50 MILS
1°18'
23 MILS
UTM GRID AND 2021 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
QB
Grid Zone Designation
14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

TEXAS
QUADRANGLE LOCATION

Garland
Rowlett
White Rock Lake
Mesquite
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

7.5-MINUTE TOPO, TX
2024

ATTACHMENT AR-1-0-1

E-Pay Receipt

Administrative Report 1.0 Section 1

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number:	582EA000631454
Date:	10/28/2024 10:10 AM
Payment Method:	CC - Authorization 0000071928
ePay Actor:	CARLA ESCARCEGA
Actor Email:	cescarcega@garlandtx.gov
IP:	50.84.41.133
TCEQ Amount:	$2,015.00
Texas.gov Price:	$2,060.59*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name:	CARLA ESCARCEGA
Company:	CITY OF GARLAND
Address:	200 N FIFTH STREET, GARLAND, TX 75040
Phone:	972-205-2714

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
727862	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		$2,000.00
727863	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	$2,015.00

ePay Again | Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

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ATTACHMENT AR-1-0-8F

Plain Language Summary

Administrative Report 1.0 Section 8.F

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.

City of Garland (CN600328694) operates the Rowlett Creek Wastewater Treatment Plant (RN100619725), a domestic wastewater treatment facility. The facility is located at 2500 East Centerville Road, in Garland, Dallas County, Texas 75040. The application is for renewal of the existing Texas Pollutant Discharge Elimination System (TPDES) No. WQ0010090002, to treat and discharge an average flow of 24 million gallons per day (MGD) via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia, and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. is treated by conventional activated sludge and trickling filter process plant. The treatment plan includes step screens, grit removal, primary clarification, trickling filters, aeration basins for activated sludge process, secondary clarification, sand filtration, and disinfection.

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.

LA Ciudad de Garland (CN600328694) opera la planta de tratamiento de aguas residuals de Rowlett Creek RN100619725, una planta de tratamineto de aguas residuals domésticas. La instalación está ubicada en 2500 East Centerville Road, en la Ciudad de Garland, Condado de Dallas, Texas 75040. La solicitus es para removal el permiso de vertimiento de aguas residuals tratadas, autorizado bajo el permiso Texas Pollutant Discharge Elimination System (TPDES) No. WQ0010090002 para tartar y verter 24 millones de galones por dia (MGD) a travez del Outfall 001.

Se espera que las descargas de la instalación contengan demanda carbonacea bioquímica de oxígeno ($DCBO_5$), solidos suspendidos totals (SST), amonia, y *Escherichia coli*. Contaminantes adicionales se encuentran en el Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0. está tratado por lodos activados y filtros percoladores. La planta cuenta con tamizado, desarenador, clarificación primaria, tanque para aireación en el proceso de lodos activados, filtros percoladores, clarificacion secundaria, filtración con arena, y desifección.

ATTACHMENT AR-1-0-13

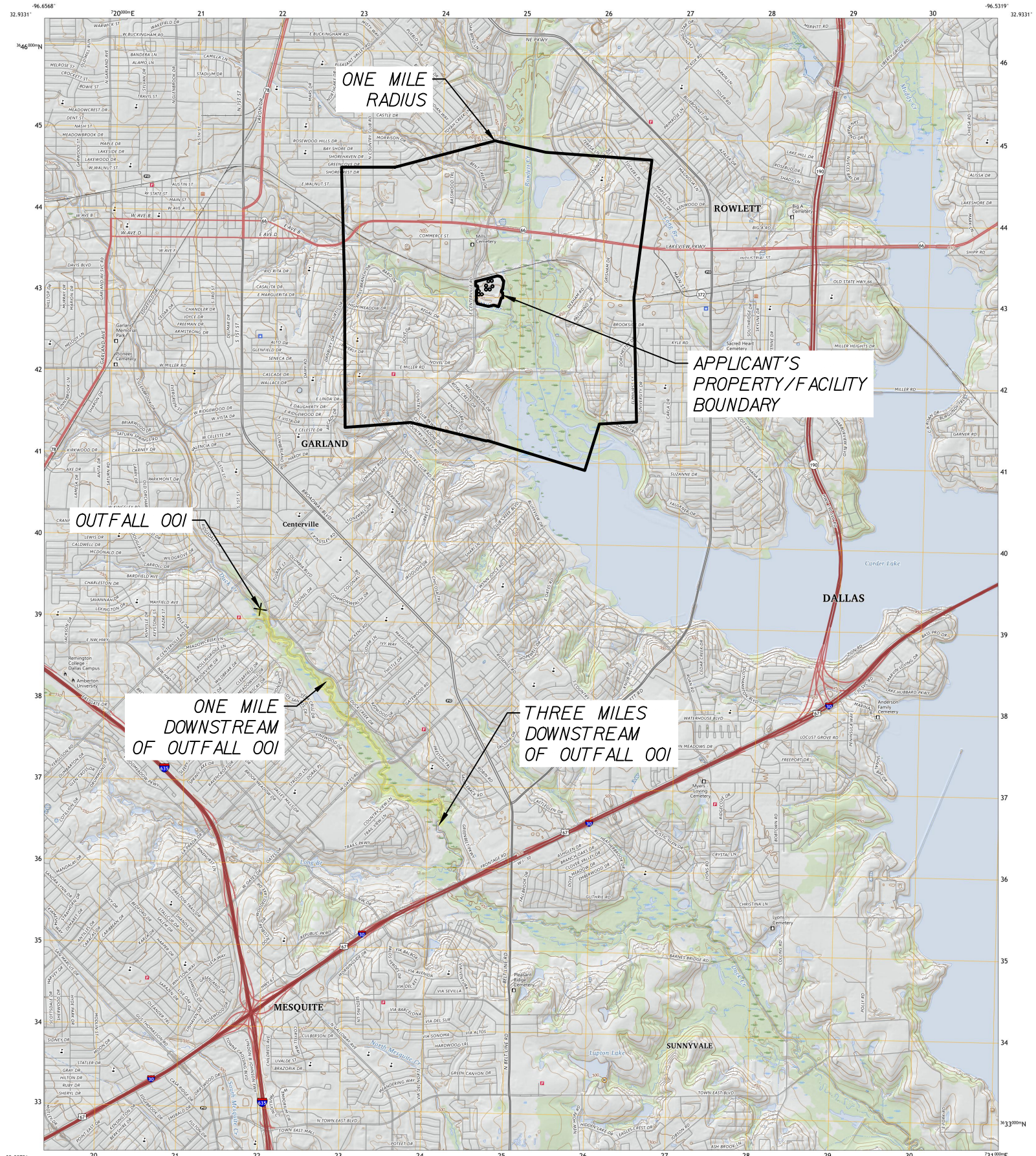
USGS Topography Map

Administrative Report 1.0 Section 13

USGS science for a changing world
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
OnDemand Topo

7.5-MINUTE TOPO QUADRANGLE
Custom Extent
7.5-MINUTE TOPO


ONE MILE RADIUS
APPLICANT'S PROPERTY/FACILITY BOUNDARY
OUTFALL 001
ONE MILE DOWNSTREAM OF OUTFALL 001
THREE MILES DOWNSTREAM OF OUTFALL 001
ROWLETT
GARLAND
Centerville
DALLAS
MESQUITE
SUNNYVALE
Rowlett Cr
Duck Cr
Lake Ray Hubbard
Lake Ray Hubbard
Lake Ray Hubbard

ATTACHMENT TR-1-0-2B

Existing Treatment Units

Technical Report 1.0 Section 2B

Rowlett Creek Wastewater Treatment Plant ... Design Data Summary

UNIT PROCESS, PARAMETER or EQUIPMENT			PAGE 1
INFLUENT FLOWS AND LOADINGS			
Annual Average Daily Flow, mgd - 2024, Current			13.41
Annual Average Flow, mgd - 1992 design			24.0
Max Peak 2-Hr/Maximum Annual Average Ratio			1.8
Max Peak 2-Hr Flow, mgd (TCEQ)			43.08
Max Peak 2-Hr Flow, mgd (EPA)			47.40
Average Monthly BOD, mg/L, Current			220
Average Monthly BOD, lbs/day			24,605
Average Monthly TSS, mg/L (RC Only), Current			254
Average Monthly TSS, lbs/day (RC Only)			28,407
Average Monthly NH3, mg/L, Current			24
Average Monthly NH3, lbs/day			2,651
Average Monthly SOLUBLE BOD, lbs/day			5,145
EASTERN HILLS PUMP STATION			
Quantity			2
Type (Flyght CP-3201-612)			Submersible
Capacity Each, mgd @ 34.7 TDH (2,300 GPM)		On - 12', Off - 8'	3.3
Motor HP			35
HEADWORKS PRELIMINARY TREATMENT			
Mechanical Bar Screens (Removed 2008)			
Quantity			3
Type (E&I Corp.)			Catenary
Width, feet			6.0
Bar Spacing, inches	Depth, 9.125 ft	Width, 6.0 ft	1
Motor HP			1
Capacity Each, mgd			30
Total Firm P2H Capacity, mgd			60

UNIT PROCESS, PARAMETER or EQUIPMENT			
ROWLETT LIFT STATION			
Quantity			1
Type (ABS Sulzer)			Submersible Sewage Pump
Product Type			501U-SK3
Motor Frequency			60Hz
Motor Voltage			460-480V
Motor Phase			3 Phase
Motor Oper. Temp. Limiter			140C
Motor Power Size			125kW
Motor Housing Size			PE6 Size A
ROWLETT LIFT STATION			
Quantity			4
Type (Flyght)			Submersible / VFD
Capacity Each, mgd			
@ 31 TDH	Pumps 1 & 5	13,700	19.73
@ 21 TDH	Pumps 2,3 &4	3,800	5.47
Motor HP	Pumps 1 & 5		134
Motor HP	Pumps 2, 3, & 4		35
ROWLETT LIFT STATION Mechanical Bar Screen (Trash Rack) ***Removed in 2001***			
Quantity			1
Type (E&I Corp.)			Catenary
Width, feet			4.0
Bar Spacing, inches			2
Motor HP			2
Mechanical Wetwell Mixers			
Quantity (1 - 4 hp, 1 - 2.5 hp)			2
Type (Flyght)			Submersible / VFD
RPS Bridge Crane ***Removed in 2009***			
Quantity			1
Type (Gaffey Crane, Robbins & Meyers Hoist)			Electric Trolley & Hoist
Capacity, tons			7.5
Trolley Drive Motor HP			1/3
Hoist Drive Motor HP			7 1/2

UNIT PROCESS, PARAMETER or EQUIPMENT	
	PAGE 3
MECHANICAL STEP SCREEN Installed in 2008	
Number	3
Dimensions Each	MM3316sstlowerFixedLamina
Type	3x Step Screen
Gear Box	3
Spacer Lami	6MM Ddpe Plastic Lamina
Manufacturer	Huber
Model Number	SS15900X1365X6 AT 45
Manufactuor Motor	WEG (Brazil) (W-015)
HP	5
RPM	1,740
Phase	3
AMPS	3.2
HZ	60
Volts	230
Flow Capacity	24MGD Each
Rowlett Transfer Pump Station in Service Oct 2010	
Number of Pumps	6
Type (Flyght)	Submersible / VFD
Manufacturer	Flyght
HP	385
RPM	1,190
Phase	3
AMPS	190
HZ	60
Volts	460
Capacity Each, (5,000 GPM)	8.06 MGD
Impeller	630
Robicon Siemens VFD	
Transfer Satation Mixers	
Direct Drive	
Motor	
HP	8.3
Phase	3
Volts	460
RPM	580
Manufacturer	Flyght

UNIT PROCESS, PARAMETER or EQUIPMENT		PAGE 4
HEADWORKS PRELIMINARY TREATMENT (continued)		
Max Peak 2-Hr Flow to rated capacity, %		69.6%
Parshall Flume		
Quantity		1
Type, ABB Datum OCF 5000)		Constricted Throat
Throat Width, inches		60
Effective Flow Range, mgd		55
Max Peak 2-Hr Flow to rated capacity, %		127.7%
Grit Chambers		
Quantity		2
Type (Smith & Loveless)		Forced Vortex
Paddle Speed, rpm		21
Motor HP		2
Size, ft., (Diam. X H)	Upper Chamber	18 X 3.83
Size, ft., (Diam. X H)	Lower Chamber	5 X 7
Capacity Each, mgd		30
Max Peak 2-Hr Capacity, mgd		60
Max Peak 2-Hr Flow to rated capacity, %		69.6%
Grit Pumps		
Quantity		3
Type (Wemco)		Horizontal Centrifugal, Torque Flow
Capacity Each, gpm @ 23 ft TDH		100
Motor HP		2
Grit Washers/Classifiers		
Quantity		2
Type (Smith & Loveless)		Inclined Screw Conveyor
Size, ft. (Dia. X L)		1.17 x 12
Motor HP		3
Agitation Air Blowers ***Removed in 2001***		
Quantity		4
Type (MD Pneumatics)		Rotary Positive Displacement
Capacity Each, cfm		75
Motor HP		5
BIOFILTER Installed in 2000		
Foul Air Blower		
Quantity		1
Type (New York Blower)		Centrifugal
Actual Capacity, CFM @ 6.3 w.c. (Design CFM @ 12.4 w.c.=20280)		26,523
Motor HP		60
Actual Blower Speed, RPM maximum (Design 1583 RPM)		1,620
Biofilter Tanks		
Quantity		2
Dimensions (Each)		
Length, ft		65
Width, ft		55
Depth, ft		7.8
Media Depth, ft (Organic-Wood Chips)		5
Total Media Volume, cu ft		35,750
PRIMARY CLARIFIERS		
Quantity		3
Type (Westech Engineering)		Circular
Diameter, ft		110
Sidewater Depth, ft		14
Capacity, gal., each		995,187
Total Capacity		2,985,562

UNIT PROCESS, PARAMETER or EQUIPMENT	
	PAGE 5
PRIMARY CLARIFIERS (continued)	
Rake Drive Motor HP, each (2 per mechanism)	1.5
Overflow Rate, gpd/sq ft, @ Annual Average Flow x 3 PC	4,233
Clarifier Area, sq ft, each	9,503
Limiting Criteria at MMF	700
Actual at MMF	561
Limiting Criteria at P2H	1,800
Actual at P2H	1,572
BOD Removal, %	35.0%
TSS Removal, %	65.0%
Detention Time, hours @ Max 2-Hr Peak Flow	1.7
Detention Time, hours @ Average Annual Flow	5.3
Foul Air Odor Scrubbers (Primary Clarifiers) Removed in 2000	
Quantity	4
Type (Harrington)	Centrifugal
Capacity Each, cfm	15,000
Motor HP	10
Blower Speed, rpm maximum	800
PRIMARY SLUDGE PUMP STATION	
Quantity	5
Type (Komline-Sanderson)	Positive Displacement, Plunger
Capacity Each, gpm @ 85 ft TDH	125
Motor HP	7.5
PS+WAS, Lbs/day/mg (Historical Average)	1,700
Sludge Production, lbs/day	25,309
Average Solids Concentration, %	3.0%
Sludge Volume, gpd (Primary Clarifier Only)	96,000
PRIMARY EFFLUENT PUMP STATION	
Quantity	4
Type (Flyght CP-3530-1030)	Submersible / VFD on 3 Pumps
Capacity Each, gpm @ 40.7 ft. TDH	16,500
Capacity Each, mgd	23.76
Motor HP	214
Total Firm Capacity, mgd	95.04
Max Peak 2-Hr Flow to rated capacity, %	45.3%
Mechanical Wetwell Mixers (2.5 hp Flyght)	
Quantity	2
Type (Flyght)	Submersible / VFD
PEPS Bridge Crane Removed in 2009	
Quantity	1
Type (Gaffey Crane, Robbins & Meyers Hoist)	Electric Trolley & Hoist
Capacity, tons	7.5
Trolley Drive Motor HP	1/3
Hoist Drive Motor HP	7 1/2

UNIT PROCESS, PARAMETER or EQUIPMENT			PAGE 6
RECYCLE FLOWS AND LOADINGS (#'s NOT design!)			
TFE Recycle Flow, mgd @ Annual Average Flow			6.7
TFE Recycle Flow, % of Annual Average Flow			50%
Average Monthly Influent BOD, lbs/day		220	24,605
Average Monthly Influent TSS, lbs/day		254	28,407
Average Monthly Influent NH3, lbs/day		24	2,651
SECONDARY EFFLUENT (#'s NOT design!)			
Average Monthly BOD, mg/L			4
Average Monthly BOD, lbs/day			447
Average Monthly TSS, mg/L			4
Average Monthly TSS, lbs/day			447
Average Monthly NH3, mg/L			2.0
Average Monthly NH3, lbs/day			224
TRICKLING FILTERS 1991			
Quantity			3
Type (Westech Engineering)			High Rate, Plastic Media, Rotary Distributor
Diameter, ft			110
Media Depth, ft			16
Type of Media (32 sq ft/cu ft), (Munters)			Cross Flow
Total Media Volume, cu ft			456,159
Total Surface Area, sq ft			28,510
Average Monthly Organic Loadings			
Lbs BOD/day/thousand cu ft, @ Annual Average Flow			84
Total Hydraulic Media Wetting Rate, gal/day/sqft		152	706
Recirculation Rate, mgd (Typical 50% of Influent Flow)			6,705,000
Recirculation Ratio, mgd			0.50
TRICKLING FILTER RECIRCULATION PARSHALL FLUME 1991			
Quantity			1
Type, Ultrasonic, (Fischer & Porter)			Constricted Throat
Throat Width, inches			12
Effective Flow Range, mgd			13.86
Max Peak 2-Hr Flow to rated capacity, %			32.2%
AERATION BASINS DEFUSERS REPLACED IN 2010			
Quantity, Conventional Plug Flow Mode			2
Length, ft		105.8	212
Width, ft		29.3	59
Sidewater Depth, ft			15.25
Surface Area, sq ft, Total			12,508
Total Volume, million gallons, Each Basin	sq ft 94,417		706,236
Total Volume, million gallons	sq ft 188,833		1,412,472
Detention Time, minutes @ Annual Average Flow			2.53
Detention Time, minutes @ Max 2-hr Peak Flow			0.79
Mixed Liquor Suspended Solids, mg/l desired			4,500
Type (Sanitaire - Tapered)			Diffused Ceramic Fine Bubble
Rubber Diaphram (Installed 2010)			
Diffuser Quantity, Each Basin	North Basi 1,314		1,358
Quantity of Blowers			4
Neuros Turbo Blowers (Installed 2010)			2
Type (Lamson)-All 4 rebuilt/overhauled in 2004			Multi-stage Centrifugal
Blower Capacity Each, scfm @ 15.5 PSIG			2,900
Total Blower Firm Capacity, scfm			11,600
Motor Type (Toshiba)			Drip-proof Horizontal Foot Mounted
Motor HP			200
Operating Pressure, psig			7.8

UNIT PROCESS, PARAMETER or EQUIPMENT	
	PAGE 7
SECONDARY CLARIFIERS 1987	
Quantity	3
Type (Westech Engineering)	Circular
Diameter, ft	125
Sidewater Depth, ft	15
Total Surface Area, sqft (2 on-line)	24,544
Capacity Each, mgd	1.38
Total Firm Capacity, mgd	4.13
Surface Loading Rate, gal/day/sqft, @ Current Ann. Avg. Flow	546
Motor HP, Collector Mechanism	1
Secondary Drain Pump	
Type (Flyght CP-3101-441), 5 HP, 550 GPM, 792,000 MGD	Submersible
Centerwell Aeration Blowers Removed in 2010	
Quantity	3
Type (Roots - Dresser)	Rotary Lobe
Blower Capacity Each, cfm @ 7 psi	65
Motor HP	5
Secondary Scum Pumps	
Quantity	3
Type (Flyght CP-3085-434)	Submersible
Capacity Each, gpm @ 21.2 ft TDH	290
Motor HP	3
SECONDARY SLUDGE PUMP STATION	
Return Activated Sludge Pumps	
Quantity	3
Type (CPC "Internalift")	Enclosed Screw
Capacity Each, mgd	10.8
Capacity Each, gpm	15,552
Total Firm Capacity, mgd	32.4
Diameter,Each, ft (66")	5.5
Motor HP	25
Capacity Utilization, % @ Current Ann. Avg. Flow	0.81
Waste Activated Sludge Pumps	
Quantity	2
Type (Flyght CP-3126-461)	Submersible
Capacity Each, gpm @ 49 ft TDH	450
Total Firm Capacity, gpm	1,350
Motor HP	10
SAND FILTRATION	
Quantity	4
Type (Environmental Elements)	Sand, Low Head Automatic Backwash
Size, ft. (Length)	66
Size, ft. (Width)	12.5
Media Depth, ft (11 inches)	0.92
Carriage Mechanism, Motor HP	1/4
Filter Bed Volume, cu ft (L x W x H) x 4 filters	3,025
Filter Bed Surface Area, sq ft (L x W) x4 filters	3,300
Media, Tons per Sand Filter	37.8
Media Type	High-Grade Silica Sand

UNIT PROCESS, PARAMETER or EQUIPMENT		PAGE 8
SAND FILTRATION	(continued)	
Effective Media Size, mm	*Use: 0.65 - 0.74*	0.55 to 0.65
Filtration Rate, gpm/sq ft, (3.7 min to 6.0 max) @ Design Flow		5.05
Backwash Rate, gpm/sq ft (25) @ 960 minutes per day operation		0.3
Backwash Rate, % of Design Flow		3.4%
Filter Backwash Pumps		
Quantity		4
Type (Flyght, 4", CP-3085)		Submersible
Capacity Each, gpm		210
Motor HP		3
Backwash Flow, gpd @ 960 minutes per day operation		806,400
Filter WashwaterPumps		
Quantity		4
Type (Flyght, 4", CP-3085)		Submersible
Capacity Each, gpm		210
Motor HP		3
Washwater Flow, gpd		1,209,600
Filter Floating Skimmer Pumps		
Quantity		4
Type (ABS)		Submersible
Capacity Each, gpm		50
Motor HP		0.5
Backwash Flow, gpd		288,000
CHLORINE CONTACT BASINS		
Quantity		2
Type		Serpentine with Baffle Walls
Dimensions Each, ft		
Width		40.93
Length		80.00
Depth		11.83
Total Volume, cu ft (L x W x H)		77,472.3
Total Volume, gallons (L x W x H) x 7.48		579,493
Total Surface Area, sq ft (L x W)		6,548.8
Detention Time, minutes @ Current Ann. Avg. Flow 2004		62.2
Limiting TCEQ & EPA Criteria for Contact Time, mins		20
Detention Time, minutes @ Max 2-Hr Peak Flow		20
Detention Time, minutes @ Design Flow, 24 MGD		34.8
Effluent Flow Meters		
Quantity		2
Type (ABB, Datum OCF 5000)		Ultrasonic Transducer
CHLORINATION (DISINFECTION) SYSTEM		
Chlorinators		
Quantity		3
Type (Wallace & Tiernan) **Replaced in 2014 Capitol Control**		V-notch, Remote Vacuum
Capacity, lbs/day each (current config., 2,000 lbs/day each)		8,000
Firm Capacity, lbs/day		24,000
Dosage, mg/L @ Current Annual Average Flow 2003		71.5
Dosage, mg/L @ Max Peak 2-Hr Flow		22.3
Firm Capacity Utilization, % (average daily use +/- 1,000 lbs)		4.2%

UNIT PROCESS, PARAMETER or EQUIPMENT	
	PAGE 9
CHLORINATION (DISINFECTION) SYSTEM (continued)	
Chlorine Analyzer Replaced 2012	1
Type (Capital Controls)	Amperometric-based
Range, mg/l	0-20, Field Selectable
Chlorine Storage	
Quantity	2
Standby on Trunions	8
Active Cylinders on Scale Trunions	8
Empty Cylinders on Trunions	8
Chlorine Bridge Crane	
Quantity	1
Type (Gaffey Crane, Robbins & Meyers Hoist)	Electric Trolley & Hoist
Capacity, tons	3.0
Trolley Drive Motor HP	1/3
Hoist Drive Motor HP	3
Chlorine Lifting Beam	
Quantity	1
Type (Chlorine Specialties)	Steel I-Beam
Gross Capacity, lbs	3,400
Size, in. (L x D)	80 x 6
Chlorine Scales	
Quantity	2
Type (Rice Lake Model RL1600 w/Digital Weight Indicator Model VC5(	Loss-of-Weight
Firm Capacity, tons	20
Chlorine Evaporators (Removed in 1998)	
Chlorine Solution Injectors Replaced in 2014	
Quantity	3
Type (Wallace & Tiernan)	Variable Orifice
Capacity, lbs/day	4,000
Water Supply Requirement, gpm @ 45 to 70 psi	350
Chlorine Gas Leak Detectors	
Quantity	4
Type (Wallace & Tiernan -1, Capitol Controls - 3)	Electronic Sensor
Minimum Detection Level, ppm	0.1
Cell Response Time	Instantaneous
Self-Contained Breathing Apparatus (SCBA)	
Quantity	4
Type (Scott Presur-Pak IIa, 900014 Series)	Pressure-Demand-Type
Maximum Rated Duration, minutes	30
Quantity	2
Type (MSA)	Pressure-Demand-Type
Maximum Rated Duration, minutes	30
Chlorine Emergency Repair Kits	
Quantity	2
Type (Kit "B", Indian Springs Mfg.)	1 Ton Containers
DECHLORINATION SYSTEM	
Sulfonators Replace in 2014 Capitol Control	
Quantity	2

UNIT PROCESS, PARAMETER or EQUIPMENT

Chlorine Bridge Crane		
Quantity		2
Type (Harrington)		Electric Wire Rope Hoist &Trolley RY Series
Capacity, tons		3 ton and 5 ton
Operating Conditions:		
Temperature Range		-4° to + 104°F (-20° to + 40°C)
Humidity		90% RH or Less (No Condensation)
Speed		Dual - Variable Grequency Drive (VFD)
Supply Voltage		208V - 230V or 460V -3ph-50/Hz
Control Voltage		110V-1ph-60Hz (Optional: 24V-1ph-60Hz)
Hoist and Trolly Duty Ratings:		
Intermittent Use: **Hoist**		
Ratio of Intermittence		60(40/20)
Start Ups per Hour		240
Cycles per Hour		40
Intermittent Use: **Trolley**		
Ratio of Intermittence		30(20/10)
Start Ups per Hour		180
Cycles per Hour		30
Dual Speed Motors		
Start Ups per Hour	Main Speed	1/3 (33.3% of total number of start-ups per hour)
	Low Speed	2/3 (66.7% of total number of start-ups per hour)
Daily Run Time	Main Speed	2/3 (66.7% of the average daily running time)
	Low Speed	1/3 (33.3% of the average daily running time)
Temporary Use		
Running Time at Main Speed (min)		30
Running Time at Low Speed (min)		3.5
Maxium number of starts-ups per hour		10
Motor Insulation Class- Hoist and Trolley		F-Type
Lifting Brake Capacity		150% Capacity or More

UNIT PROCESS, PARAMETER or EQUIPMENT

FINAL EFFLUENT PUMP STATION

Final Effluent Pumps		
Quantity		4
Type (Goulds Model VIT-FF)(SEPCO '91)		Vertical Turbine
Motor HP (GE, Vertical Induction)		Variable Speed (Robicon), 2 @ 600
Motor HP (GE, Vertical Induction)		Constant Speed, 2 @ 400
Capacity Each, gpm @ 125 ft TDH		9,800
Total Firm Capacity, mgd, gpd	56.45	56,448,000
Max Peak 2-Hr Flow to Rated Capacity, %		131%
Storm Water Pumps		
Quantity		2
Type (Simmons, Model SC20MF-1, Mixed Flow Bowl)		Vertical Turbine
Motor HP (GE, Vertical Induction)		Constant Speed, 2 @ 200
Capacity Each, gpm @ 59 ft TDH		10,500
Total Firm Capacity, mgd, gpd	30.24	30,240,000
Basin Drain Pumps		
Quantity		2
Type (Flyght CP-3126-432)		Submersible
Capacity Each, gpm @ 32.4 ft TDH		620
Motor HP		10
Total Capacity, mgd, gpd	1.79	1,785,600
Plant Water Pumps		
Quantity		5
Type (Simmons)		Vertical Turbine
Capacity Each, gpm @ 180 ft TDH		360
Total Capacity, mgd, gpd	2.59	2,592,000
Motor HP		25
Plant Water Strainer *Replaced 4-2016*		
Quantity		1
Type (R.P. Adams Co.)		Automatic Vertical Rotating Drum
Design Pressure, psi		150
Operating Pressure, psi		60-80
Flow Rate, gpm		1,600
Backwash Rate, gpm		400
Pressure Drop, psi		4
Motor HP (Baldor)		1/2

UNIT PROCESS, PARAMETER or EQUIPMENT	
	PAGE 12
DECHLORINATION SYSTEM (continued)	
Quantity	2
Type (Capital Controls)	Diaphragm, Remote Vacuum
Capacity Each Sulfonator, lbs/day (current configuration, 500 lbs/day)	1000
Firm Capacity, lbs/day (current configuration, 1,000 lbs/day)	2,000
Maximum Firm Capacity, lbs/day	2,000
Dosage, mg/l	8.9
Firm Capacity Utilization, % (average daily use +/- 400 lbs)	20%
Sulfur Dioxide/ChlorineAnalyzer	
Quantity	2
Type (Capital Controls)	Amperometric-based
Range, mg/L	0-20, Field Selectable
Remote Vacuum Regulators	
Quantity	2
Type (Capital Controls)	Diaphragm, Remote Vacuum
Capacity Each Regulator, lbs/day	8000
Microprocessor Controllers	
Quantity	2
Type (Capital Controls)	Dual Input/Feed Forward Control
Range, %	0-200, Field Selectable
Sulfur Dioxide Injector Pumps (REMOVED 2003)	
Quantity	2
Type (Gould)	Centrifugal, Horizontal End-Section
Capacity Each, gpm @ 200 ft TDH	97
Motor HP	15
Sulfur Dioxide Solution Injectors	
Quantity	2
Type (Capital Controls Model)	Fixed Orifice
Capacity, lbs/day	1,000
Water Supply Requirement, gpm @ 10 to 50 psi	80
Sulfur Dioxide Leak Detector	
Quantity	2
Type (Capital Controls Model 1560)	Electrochemical Cell, Ambient Air
Minimum Detection Level, ppm	1
Cell Response Time	Instantaneous
Effluent Flow Meter (42" @ EQ)	
Quantity	1
Type (Polysonics. Inc. Model UFM84)	Ultrasonic, Doppler
Range, mgd	0-90
Drainback Flow Meter (Equalization Basin #1, 24")	
Quantity	1
Type (Polysonics. Inc. Model UFM84)	Ultrasonic, Doppler
Range, gpm	0-20,000
Drainback Flow Meter (Equalization Basin #2, 12")	
Quantity	1
Type (Peak, Model DTC6088)	Ultrasonic, Doppler
Range, gpm	0-1,000
EQ Jib Crane 1987 Removed 2016	
Quantity	1
Type (Gaffey Crane, Shaw-Box Hoist & Trolley)	Radio Remote Control Electric Hoist & Trolley
Capacity, tons	3.0
Trolley Drive Motor HP/Hoist Drive Motor HP	1/3 / 3

UNIT PROCESS, PARAMETER or EQUIPMENT	PAGE 13
GRAVITY BELT THICKENER HOLDING TANKS INSTALLED IN 2007	
Quantity of Sludge Thickeners Tanks (Envirex)	2
Dimensions (Each)	
Width (feet)	17.92
Length (feet)	
Section A (Upper half of unit)	69.08
Section B (Lower half of unit)	77.83
Depth (feet)	
Section A (Upper half of unit)	4.58
Section B (Lower half of unit)	6.59
Total Volume (ft^3)	14,861
Section A (Upper half of unit)	5,670
Section B (Lower half of unit)	9,191
Capacity (gallons)	
Section A (Upper half of unit)	42,409
Section B (Lower half of unit)	68,750
Total Gallons	111,159
Total Gallons In 1 (ft3)(Upper half of unit)	9,260
Total Gallons In 1 (ft3)(Lower half of unit)	10,432
GRAVITY BELT THICKENERS Removed 2016	
Quantity (US Filter Model GBT-2000)	2
Belt Width Each, meters	2
Max. Dry Solids Loading Each (2500 lb/hr/meter)	5000 lbs/hr
Max. Hydraulic Loading Each (@ 1.6% dry solids)	600 gpm
Max. Hydraulic Loading Each (@ 3.0% dry solids)	300 gpm
Inlet Tank Volume (gallons)	275
Air Dissolution Tanks Removed 2016	
Quantity	2
Type (Envirex)	Vertical
Size Each, ft (Diameter x H)	
Diameter	5
Height	12.5
Capacity Each, gallons (x 52%)	954
Air Compressors Removed 2016	
Quantity	2
Type (Quincy)	Air-cooled Reciprocating
Capacity each, cfm @ 100 psi	30
Motor HP	7.5
Reciever Capacity, gallons	80
GBT Polymer Storage Day Tanks Removed 2016	
Quantity	2
Type (Chemco)	Fiberglass Reinforced Polyester
Size Each, ft (Diameter x H)	
Diameter	6
Height	5
Capacity Each, gallons (Working Volume)	952

UNIT PROCESS, PARAMETER or EQUIPMENT	

DISSOLVED AIR FLOTATION THICKENING Modified in 2007 to GI (continued)

GBT Polymer Day Tank Mixers	
Quantity	2
Type (Anco)	Dual Propeller, Clamp-on
Propeller Speed, rpm	350
Motor HP	1.5
DAF Recirculation Pumps	
Quantity	2
Type (Ingersoll-Rand)	Centrifugal
Capacity each, gpm @ 110 ft TDH	400 to 950
Motor HP	40
Thickened WAS Pumps	
Quantity	2
Type (Moyno)	Progressive Cavity
Capacity each, gpm @ 100 ft TDH	130
Motor HP	7.5
GBT Polymer Feed Pumps	
Quantity	3
Type (Viking)	Rotary
Capacity Each, gpm @ 100 psi	10 to 30
Motor HP	5
Polymer Storage Tanks	
Quantity	2
Type (Chemco)	Fiberglass Reinforced Polyester
Size Each, ft (Diameter x H)	
Diameter	8.0
Height	9.54
Capacity Each, gallons (Working Volume)	3,588
Polymer Transfer Pumps	
Quantity	2
Type (Progressive Pump, Adjustable Speed)	Liqui-Flow Rotagear (Rotary)
Capacity each, gpm @ 220 psi	6
Motor HP	1

ANAEROBIC DIGESTERS, Converted to Sludge Holding Tanks 2016

Quantity	4
Type (Envirex)	
Size, ft (Diameter #2, #3, & #4)	65
Size, ft (Diameter #1)	55
Sidewater Depth	24
Total Volume 1-4, gallons, including cone	2,428,808
Total Volume 1-4, cu ft, including cone	324,707
EPA Detention Time,days	20
Actual Detention Time (Current), days	11
Sludge Recirculation Pumps ***Removed 2016***	
Quantity	4
Type (Wemco)	Centrifugal, Torque Flow
Capacity Each, gpm @ 42 ft TDH	350
Motor HP	15

UNIT PROCESS, PARAMETER or EQUIPMENT

ANAEROBIC DIGESTERS, Converted to Sludge Holding Tanks 201((continued)

Sludge Holding Tank Blower

Quantity	2
Type (Aerzen)	Hybrid Blower System- Model D98S
Horsepower	200HP
Amperage	219A
Voltage	460V
Service Factor	1.15
Speed	3600RPM
ENC Type	Nema, TEFC, Frame 445/7TS
Capacity	2560 @ 60Hz SCFM
Space Heater	158 W, 110 V

UNIT PROCESS, PARAMETER or EQUIPMENT

VAUGHN CHOPPER PUMP INSTALLED 2009 / Removed 2016

Manufacturer	Vaughn Company
Model No	HE4K6CS
Cost	15,400.0
HP	20.0
RPM	1,750.00
TDH	50.00
Volts	460
Phase	3
HZ	60
Seal	Flushless Mechanical
Installed	Dec 01 08
Capacity	300gpm
Impellar size	9
Motor	Electric
Operation	VFD
Manufacturer	Reliance Motors

UNIT PROCESS, PARAMETER or EQUIPMENT

ANAEROBIC DIGESTERS Discontinue 2015 (continued)

Sludge Grinders	
Quantity	3
Type (Disposable Waste Systems)	Rotating Cutter, In-line
Capacity Each, gpm	800
Motor HP	3
Sludge Heat Exchangers Removed 4-2016	
Quantity (Two Digesters per HEX, Separate Chambers)	2
Type (Envirex)	Hot Water, Concentric Tube
Heating Capacity, btu/hr	2,000,000
Sludge Flow Capacity, gpm	350
Digester Gas Compressors (Not in Use)	
Quantity	4
Type (Big Jack A44 Series)	Rotary Lobe, Positive Displacement
Capacity Each, cfm @ 15 psi	205
Motor BHP	23
Motor RPM	3,000
Digester Gas Flow Meters Removed 4-2016	
Quantity	6
Type (Dieterich Standard Pro-Ducer 3000DX)	Annubar Analog DP Transmitter
Capacity Each, cfm @ 0-30" W.C. psi drop (Waste Gas,Sphere,Digs 1	3.63" 300
Digester Gas Filter Conditioners Removed 4-2016	
Quantity	2
Type (Nelson/Winslow)	Wood/Wool
Capacity Each, cfm @ 2 - 12" W.C.	200
Capacity Each, gallons	400
Size, ft (Diameter x H)	4 x 5.67
Belt Filter Press Feed Pumps (Feed Pump 7007 Replaced Nov. 08)	
Quantity	3
Type (Moyno)	Progressive Cavity
Capacity Each, gpm @ 115 ft TDH (limited to 200)	200
Motor HP	10
Belt Filter Presses Removed 4 -2016	
Quantity	3
Type (Ashbrook-Simon-Hartley Size 3, Type 85)	Press Filtering
Width Each, meters	2
Total Width, meters (6.5 Ft)	6
Belt Area, sq ft	230
Belt Speed, fpm	3 to 30
Solids Throughput, lbs/hr (Calculated @ 2% solids, 140 gpm)	1,401
Hydraulic Loading, gpm/ft @ 140 gpm	21.5
Solids Capture, %	95-98
Motor HP, Drive Unit	2
BFP Polymer Storage Day Tanks	
Quantity	2
Type (Chemco)	Fiberglass Reinforced Polyester
Size Each, ft (Diameter x H)	
Diameter	6.42
Height	5
Capacity Each, gallons (Working Volume)	833

UNIT PROCESS, PARAMETER or EQUIPMENT	

ANAEROBIC DIGESTERS, Solids Diposal (continued)

BFP Washwater Pumps ***Removed 2016***	
Quantity	3
Type (Allis-Chalmers, Model 2000 Series)	Centrifugal
Capacity Each, gpm @ 116 ft TDH	85
Motor HP	7.5
BFP Polymer Day Tank Mixers ***Removed 2016***	
Quantity	2
Type (Anco)	Dual Propeller, Clamp-on
Propeller Speed, rpm	350
Motor HP	1.5
BFP Polymer Feed Pumps ***Removed 2016***	
Quantity	3
Type (Viking)	Rotary
Capacity Each, gpm @ 100 psi	10 to 30
Motor HP	5
Digester Gas Storage Compressors ***Removed 2016***	
Quantity	2
Type (Semblex, Water Cooled)	Reciprocating, Single-Stage, Double-Acting
Capacity Each, cfm @ 19 to 64 psi	200
Discharge Pressure Each, psi	19 to 64
Motor HP	40
Digester Gas Storage Sphere ***Removed 2016***	
Quantity	1
Type (Graver)	Spherical
Size, ft (diameter)	34
Storage Capacity, cu ft	20,580
Maximum Operating Pressure, psi	52
Waste Gas Burner - Replaced 1995 ***Removed 2016***	
Quantity	1
Type (Whessoe Varec, Inc. Model 244W)	Stoichiometric Pilot
Size, inches (128" Height)	6
Capacity, cfm	855

POWER GENERATION (REMOVED IN 2002)

Engine Generators	
Quantity	2
Type (Superior)	4-cycle/reciprocating
Number of Cylinders each	6
Displacement, cu in	4,948
Rotative Speed, rpm	900
Output rating, kw (Digester Gas)	370
Output rating, kw (Natural Gas)	370
Hot Water Heat Exchanger ***Removed 2016***	
Quantity	1
Type (Vaporphase)	Shell & Tube
Steam Flow, lbs/hr	4,000
Water Flow, gpm	400
Steam Pressure, psi	8
Water Temperature, F, In/Out	170/185

UNIT PROCESS, PARAMETER or EQUIPMENT		
POWER GENERATION	(continued)	
All Units on this Page Removed in 2016		
Lubricating Oil Cooler		
Quantity		2
Type (Amatek)		Water Cooled, Shell-in-Tube
Lubricating Oil Flow, gpm		10
Heat Recovery/Silencers		
Quantity		2
Type (Vaporphase)		Water Jacket, Gas Flow-Through
Steam Capacity, lbs/hr		3,000
Steam Pressure, psi		6 to 20
Excess Steam Condenser		
Quantity		1
Type (Vaporphase)		Shell & Tube
Steam Flow, lbs/hr		4,000
Water Flow, gpm		120
Steam Pressure, psi		10
Water Temperature, F, In/Out		85/180
Condensate Return System		
Quantity		1
Type (Vaporphase)		Recirculation
Receiving Tank Volume, gallons		300
Condensate Return Pumps		2
Type (Aurora)		Centrifigal
Pump Capacity, gpm		15
Motor HP		2
Engine Starting Air System		
Quantity		1
Type		Compressed Air
Number of Air Tanks		3
Number of Starts Per Pair of Tanks		5
Tank Pressure, psi		250
Compressors, 1 electric motor driven, 1 gasoline engine driven		2
Type (Gardner-Denver)		Two-Stage, Air-Cooled
Capacity, cfm @ 250 psi		19
Rotative Speed, rpm		800
Motor/Engine, HP		10/43
Hot Water Recirculation Pumps Removed 2016		
Quantity		2
Type (Bell & Gossett)		Centrifigal
Pump Capacity, gpm		400
Motor HP		7.5
Hot Water Design Temperature, degrees F		200
DEWATERING/ENERGY RECOVERY Removed 2016		
Foul Air Odor Scrubbers (2 @ BFP , 1 @ DAF)		
Quantity		3
Type (Harrington)		Centrifugal
Capacity Each, cfm		7,500
Motor HP		7.5
Blower Speed, rpm maximum		1,325

CARBON ODOR SCRUBBER CAKE LOADING BUILDING

Quantity	
Manufacture	
Type	Dual Bed Carbon Vessel Cake Tr
Vessel Diameter	
Media Beds	
Vessel Height	
Air Flow Rate	
Total Media Bed Depth	
Fan Motor Horsepower	
Fan Amperage	
Fan Voltage	
Fan Speed	
Fan Capacity	
Average Inlet H2S Concentration	
H2S performance	

CARBON ODOR SCRUBBER CENTRIFUGE

Quantity	
Manufacture	
Type	Single Bed Carbon Vesse
Vessel Diameter	
Media Beds	
Vessel Height	
Air Flow Rate	
Total Media Bed Depth	
Fan Motor Horsepower	
Fan Amperage	
Fan Voltage	
Fan Speed	
Fan Capacity	
Average Inlet H2S Concentration	
H2S performance	

Bridge Crane

Quantity	
Manufacture	
Capacity	

Grinders

Quantity	
Manufacture	
Type	
Speed	
Motor Type	Allen-
Motor Horsepower	
Motor Voltage	
Motor Hertz	

Mixers

Polymer Bulk Storage Tank Mixer

Quantity	
Manufacture	Phil
Type/Model	
Weight	
Motor Manufacture	
Motor Horsepower	

UNIT PROCESS, PARAMETER or EQUIPMENT		PAGE 17

POWER GENERATION (continued)

Make-Up Heat Boiler - BLR7001 Removed 2016

Quantity	1
Type (Cleaver-Brooks Model NCB700-60, Serial 3: L-83976)	Gas-fired (Natural Only)
Capacity Input, BTU/Hr	2,511,000
Motor HP	60
Gas Flow required, Cubic Feet/Hr	2,511

RE-AERATION BASINS 1992 DEFUSERS REPLACED 2010

Number		2
Dimensions Each, ft.		
Length		187
Width		18
Sidewater Depth		15.25
Total Surface Area Each, sq ft		51,332
Total Volume Each, mg		383,960
Total Volume, mg		767,919
Re-aeration Detention Time, hrs @ Ann. Avg. Flow	41.23	0.69
Re-aeration Detention Time, hrs @ Max Peak 2-Hr Flo	12.83	0.21

FLOW EQUALIZATION BASINS 1992

Number	2
Dimensions Each, ft.	
Length	250
Width	55
Sidewater Depth	20.03
Triangular Bottom Capacity, gallons	437,113
Maximum Operating Level, ft	28.53
Total Basin Volume, mg	4,994,396
Daily Volume Stored, mgd (Nominal Dry Weather Flow)	2.1
Capacity Utilization, % @ Current Ann. Avg. Flow	15.9%

BOILER - BLR7002 (Installed 2002) Removed 2016

Quantity	1
Type (Packaged Firetube, Cleaver-Brooks, Model CB-700-200-030)	Gas-fired (Natural & Methane)
Capacity Input, BTU/Hr	8,370,000
Motor HP	200
Gas Flow required, Cubic Feet/Hr	8,370
Operating Pressure, PSIG, Maximum	30
Serial Number:	0L102468
Blower Motor HP	10

SECONDARY CLARIFIER SLUDGE DEPTH INDICATORS 1998 No longer in Service

Quantity	3
Type (Entech Design Model BinMinder 9300)	Acoustic Level Transducers
Capacity, Measurement Limits, ft	1-328
Display Points	4
Operating Depth Setpoint, ft	17.5

Bio-Solids Sludge Holding Tanks

Blowers

Quantity	2
Type	Hybrid Blower System- Model D98S
Manufacture	Aerzen USA Corp
Horsepower	200HP
Amperage	219AMP
Voltage	460V
Service Factor	1.5
Speed	3600RPM
ENC Type	Nema, TEFC, Frame 445/7TS
Capacity	2560 @ 60Hz SCFM
Space Heater	158 8, 110 V

Bio-Trickling Filter

Quantity	1
Manufacture	Daniel Company
Type	Bio trickling Filter Sludge Holding (BTF-7001)
Vessel Diameter	14'
Media Beds	2 (7'-4" each)
Vessel Height	26'-2" Straight Wall
Air Flow Rate	9,000 cfm
Total Media Bed Depth	14'-8"
Water Recirculation Rate	80 gpm
Fan Motor Horsepower	40HP
Fan Amperage	44AMP
Fan Voltage	460VLT
Fan Speed	3600 RPM
Fan Capacity	9000 OFM
pH Range	1.8-2.2
Blowdown Rate	1-3 GPM
Average Inlet H2S Concentration	50 PPM
H2S performance	99% Removal

Quantity	1
Manufacture	Daniel Company
Type	**Bio Trickling Filter Sludge Holding (CAU-7001)**
Vessel Diameter	12'
Media Beds	1.0%
Vessel Height	16'-5"
Air Flow Rate	18000 CFM
Total Media Bed Depth	2'
Fan Motor Horsepower	40HP
Fan Amperage	44AMP
Fan Voltage	460VLT
Fan Speed	3600 RPM
Fan Capacity	9000 OFM
Average Inlet H2S Concentration	0.5 ppm
H2S performance	99.9% Removal

Bio-Filters (continued)

Motor Amperage	5.4/2.7AMP
Motor Voltage	230/460VLT
Hertz	30/60 HZ
Service Factor	1.15
ENC Type	TEFC
FLRPM	1140
RPM	1200
GearBox Speed	240RPM

Dewatering Polymer Storage Tank

Quantity	1
Manufacture	Philadelphia Mixing Solutions Ltd
Type/Model	BY156FLC2AOZ
Weight	190LBS
Motor Manufacture	Toshiba International Corp
Motor Horsepower	1.5HP
Motor Amperage	5.4/2.7AMP
Motor Voltage	230/460VLT
Hertz	30/60 HZ
Service Factor	1.15
ENC Type	TEFC
FLRPM	1140
RPM	1200
GearBox Speed	240RPM

Thickner Polymer Storage Tank Mixer

Quantity	1
Manufacture	Philadelphia Mixing Solutions Ltd
Type/Model	BY156FLC2AOZ
Weight	190LBS
Motor Manufacture	Toshiba International Corp
Motor Horsepower	1.5HP
Motor Amperage	5.4/2.7AMP
Motor Voltage	230/460VLT
Hertz	30/60 HZ
Service Factor	1.15
ENC Type	TEFC
FLRPM	1140
RPM	1200
GearBox Speed	240RPM

Rowlett Creek Wastewater Treatment Plant ... Design Data Summary

AQUADIAMOND TERTIARY FILTRATION

Design Influent Conditions

Average Design Flow	24 MG/Day 16666.67GPM (90850 m'/Day)
Max Design Flow	43 MG/Day 29861.1 GPM (162773 m"/Day

Design Parameters

	Influent	mg/l	Effluent Required	<=mg/l	Anticipated	<=mg/l
Avg. Total Suspended Solids:	TSSa	15	TSSa	10	TSSa	10
Max. Total Suspended Solids:	TSSm	20				

AquaDiamond Filter Recommendation

Qty of Filter Units Recommended	4
Number of Diamonds Per Unit	6
Length Per Diamond	63.3 ft (19.29m)
Total Filter Area Provided	6080 f1^2 = 564.85 m^2
Filter Model Recommended	AquaDiamond Concrete Model 1263
Filter Media Cloth Type	OptiFiber PES-14

AquaDiamond FILTER CALCULATIONS

Filter Type: Vertically Mounted Cloth Media Diamonds featuring automatically operated vaccum backwash and solids removal system

Average Flow Conditions:

Average Hydraulic Loading Avg Design Flow (gpm)/Recommended Filter Area (f12)

'16666.7/6080 f1^2

'2.74 gpm/ft ^{2} (6.71m/hr) at Avg. Flow

Maximum Flow Conditions:

Maximum Hydraulic Loading Max Design Flow (gpm) / Recommended Filter Area (fl^2)

29861.1 / 6080 fl^2

'4.91 gpm / fl2 (1202 m/hr) at Max. Flow

Solids Loading:

Solids Loading Rate

'(lbs TSS/day at max flow and max TSS loading)/ Recommended Filter Area(fl^2)

7172.4 lbs/day/ 6080 tt^2

'1.18 lbs. TSS /day/f1^2 (5.76kg. TSS/day/m ^{2})

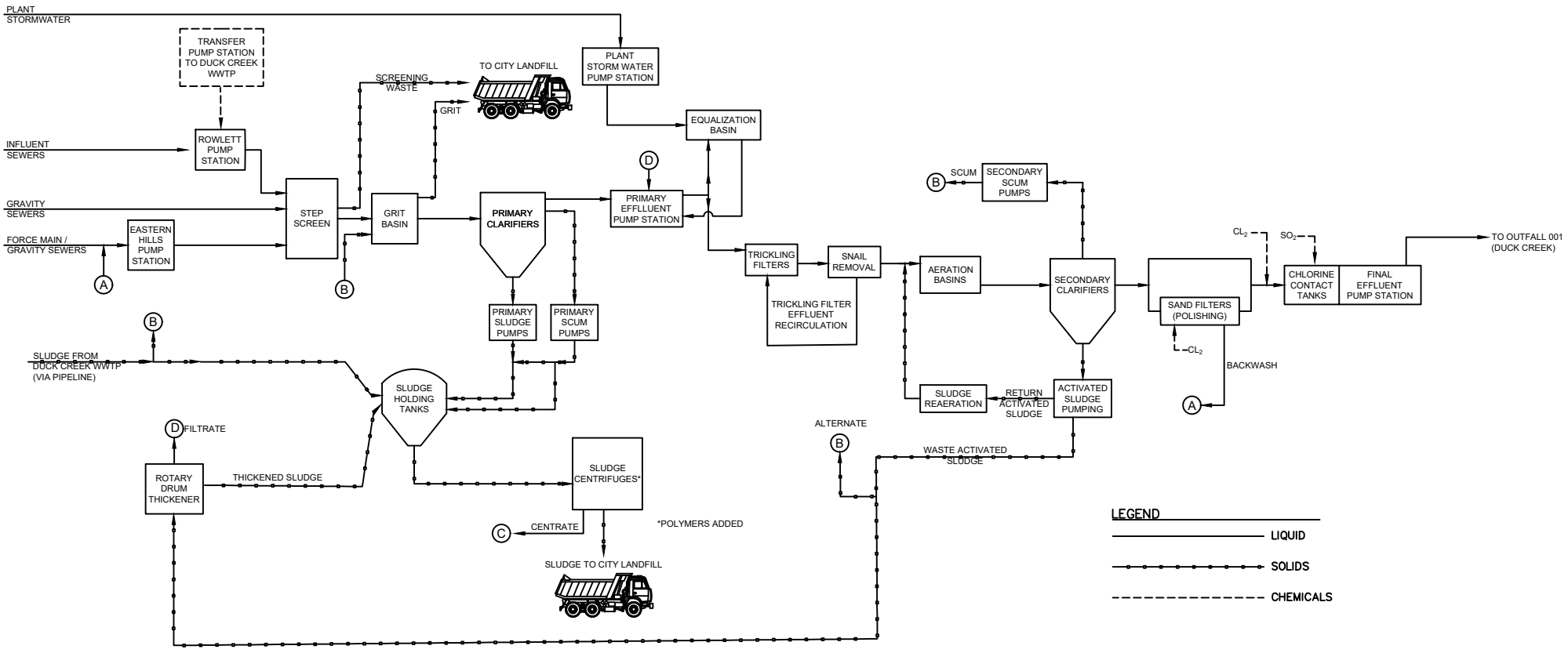
RE-AERATION BASINS 1992 DEFUSERS REPLACED 2010

Number		2
Dimensions Each, ft.		
Length		187
Width		18
Sidewater Depth		15.25
Total Surface Area Each, sq ft		51,332
Total Volume Each, mg		383,960
Total Volume, mg		767,919
Re-aeration Detention Time, hrs @ Ann. Avg. Flow	12.83	0.21
Re-aeration Detention Time, hrs @ Max Peak 2-Hr Flo	0.02	0.00

ATTACHMENT TR-1-0-2C

Process Flow Diagrams

Technical Report 1.0 Section 2C

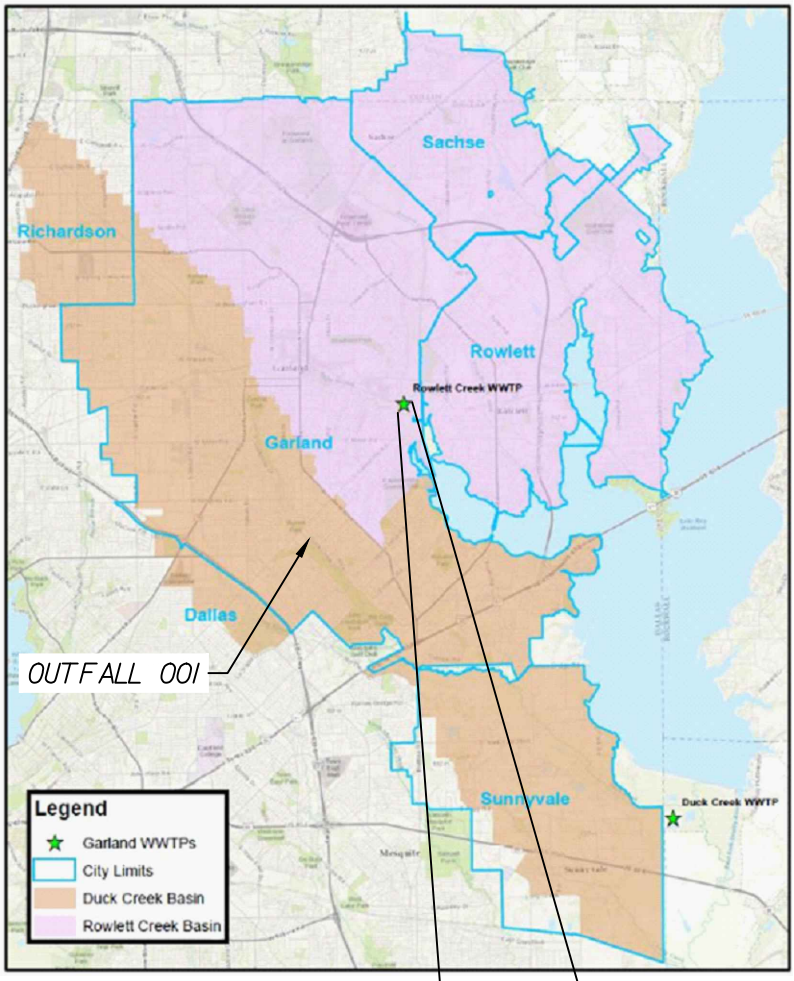


CITY OF GARLAND
ROWLETT CREEK WASTEWATER TREATMENT PLANT
PROCESS FLOW DIAGRAM

ATTACHMENT TR-1-0-3

Site Drawing

Technical Report 1.0 Section 3


Sachse
Richardson
Rowlett
Rowlett Creek WWTP
Garland
Dallas
OUTFALL 001
Sunnyvale
Duck Creek WWTP
Legend
Garland WWTPs
City Limits
Duck Creek Basin
Rowlett Creek Basin

APPLICANT'S
PROPERTY/FACILITY
BOUNDARY

ATTACHMENT TR-1-0-6C

TDS Sampling Requirements

Technical Report 1.0 Section 6C

Rowlett Creek WWTP

Effluent TDS Sample Results

Analyte	Collection Date	Final Effluent Result (mg/L)
Total Dissolved Solids	1/1/2020	516
Total Dissolved Solids	1/12/2020	542
Total Dissolved Solids	1/26/2020	594
Total Dissolved Solids	2/10/2020	610
Total Dissolved Solids	2/25/2020	712
Total Dissolved Solids	2/25/2020	712
Total Dissolved Solids	2/25/2020	712
Total Dissolved Solids	3/9/2020	630
Total Dissolved Solids	3/23/2020	512
Total Dissolved Solids	4/5/2020	560
Total Dissolved Solids	4/19/2020	600
Total Dissolved Solids	5/3/2020	600
Total Dissolved Solids	5/17/2020	506
Total Dissolved Solids	5/31/2020	514
Total Dissolved Solids	6/14/2020	560
Total Dissolved Solids	6/28/2020	564
Total Dissolved Solids	7/13/2020	504
Total Dissolved Solids	7/27/2020	546
Total Dissolved Solids	8/10/2020	504
Total Dissolved Solids	8/25/2020	612
Total Dissolved Solids	9/7/2020	566
Total Dissolved Solids	9/20/2020	538
Total Dissolved Solids	10/4/2020	606
Total Dissolved Solids	10/19/2020	524
Total Dissolved Solids	11/3/2020	576
Total Dissolved Solids	11/15/2020	430
Total Dissolved Solids	11/29/2020	538
Total Dissolved Solids	12/13/2020	572
Total Dissolved Solids	1/12/2021	624
Total Dissolved Solids	1/25/2021	504
Total Dissolved Solids	2/7/2021	530
Total Dissolved Solids	2/21/2021	580
Total Dissolved Solids	3/7/2021	654
Total Dissolved Solids	3/21/2021	580
Total Dissolved Solids	4/4/2021	594
Total Dissolved Solids	4/18/2021	578
Total Dissolved Solids	5/2/2021	598
Total Dissolved Solids	5/16/2021	662
Total Dissolved Solids	5/31/2021	584
Total Dissolved Solids	6/13/2021	586
Total Dissolved Solids	6/27/2021	482
Total Dissolved Solids	7/11/2021	570

Rowlett Creek WWTP

Effluent TDS Sample Results

Analyte	Collection Date	Final Effluent Result (mg/L)
Total Dissolved Solids	7/25/2021	544
Total Dissolved Solids	8/8/2021	596
Total Dissolved Solids	8/22/2021	580
Total Dissolved Solids	9/6/2021	552
Total Dissolved Solids	9/19/2021	494
Total Dissolved Solids	10/20/2021	624
Total Dissolved Solids	10/31/2021	578
Total Dissolved Solids	11/16/2021	512
Total Dissolved Solids	12/1/2021	548
Total Dissolved Solids	12/20/2021	462
Total Dissolved Solids	1/3/2022	480
Total Dissolved Solids	1/17/2022	532
Total Dissolved Solids	2/1/2022	622
Total Dissolved Solids	2/15/2022	640
Total Dissolved Solids	2/28/2022	618
Total Dissolved Solids	3/7/2022	716
Total Dissolved Solids	3/15/2022	660
Total Dissolved Solids	3/28/2022	700
Total Dissolved Solids	4/12/2022	530
Total Dissolved Solids	4/25/2022	676
Total Dissolved Solids	5/8/2022	774
Total Dissolved Solids	5/23/2022	686
Total Dissolved Solids	6/8/2022	732
Total Dissolved Solids	6/20/2022	674
Total Dissolved Solids	7/5/2022	650
Total Dissolved Solids	7/20/2022	702
Total Dissolved Solids	8/1/2022	680
Total Dissolved Solids	8/17/2022	662
Total Dissolved Solids	8/31/2022	750
Total Dissolved Solids	9/14/2022	604
Total Dissolved Solids	9/27/2022	660
Total Dissolved Solids	10/4/2022	678
Total Dissolved Solids	10/9/2022	700
Total Dissolved Solids	10/23/2022	622
Total Dissolved Solids	11/11/2022	748
Total Dissolved Solids	11/16/2022	750
Total Dissolved Solids	11/22/2022	654
Total Dissolved Solids	12/1/2022	600
Total Dissolved Solids	12/6/2022	650
Total Dissolved Solids	12/19/2022	598
Total Dissolved Solids	1/4/2023	648
Total Dissolved Solids	1/5/2023	520

Rowlett Creek WWTP

Effluent TDS Sample Results

Analyte	Collection Date	Final Effluent Result (mg/L)
Total Dissolved Solids	1/18/2023	634
Total Dissolved Solids	1/29/2023	662
Total Dissolved Solids	2/14/2023	592
Total Dissolved Solids	2/28/2023	558
Total Dissolved Solids	3/15/2023	518
Total Dissolved Solids	3/30/2023	620
Total Dissolved Solids	4/12/2023	598
Total Dissolved Solids	5/9/2023	784
Total Dissolved Solids	5/24/2023	774
Total Dissolved Solids	6/8/2023	660
Total Dissolved Solids	6/21/2023	406
Total Dissolved Solids	6/28/2023	918
Total Dissolved Solids	7/5/2023	622
Total Dissolved Solids	7/17/2023	490
Total Dissolved Solids	7/30/2023	684
Total Dissolved Solids	8/17/2023	536
Total Dissolved Solids	8/27/2023	642
Total Dissolved Solids	9/13/2023	588
Total Dissolved Solids	9/25/2023	616
Total Dissolved Solids	9/26/2023	628
Total Dissolved Solids	10/12/2023	708
Total Dissolved Solids	10/24/2023	672
Total Dissolved Solids	11/5/2023	674
Total Dissolved Solids	11/16/2023	422
Total Dissolved Solids	11/30/2023	480
Total Dissolved Solids	12/18/2023	702
Total Dissolved Solids	1/3/2024	666
Total Dissolved Solids	1/19/2024	576
Total Dissolved Solids	1/25/2024	568
Total Dissolved Solids	2/15/2024	718
Total Dissolved Solids	3/4/2024	602
Total Dissolved Solids	3/20/2024	N/A
Total Dissolved Solids	3/31/2024	608
Total Dissolved Solids	4/1/2024	N/A
Total Dissolved Solids	4/21/2024	572
Total Dissolved Solids	5/8/2024	528
Total Dissolved Solids	5/20/2024	588
Total Dissolved Solids	5/29/2024	554

ATTACHMENT TR-1-0-6G

Sewage Sludge Solids Management Plan

Technical Report 1.0 Section 6G

CITY OF GARLAND
ROWLETT CREEK WASTEWATER TREATMENT PLANT
TPDES PERMIT RENEWAL APPLICATION

SEWAGE SLUDGE SOLIDS MANAGEMENT PLAN

The Rowlett Creek WWTP treats solids from both the Rowlett Creek WWTP and the Duck Creek WWTP.

Rowlett Creek Influent Design Flow $= 24$ MGD
Duck Creek WWTP Influent Design Flow $= 40$ MGD
Influent BOD Concentration $= 193$ mg/L
Influent TSS Concentration $= 219$ mg/L
MLSS Operating Range: $3{,}500 - 4{,}000$ mg/L

Solids Generated	**100% Flow**	**75% Flow**	**50% Flow**	**25% Flow**
Pounds Influent BOD_5	103,016	77,262	51,508	25,754
Pounds of dry sludge produced	129,869	97,402	65,934	32,467
Pounds of wet sludge produced	649,345	487,009	324,673	162,336
Gallons of wet sludge produced	71,090	53,317	35,545	17,773

Sludge is produced from both primary and biological treatment processes at the Rowlett Creek and Duck Creek WWTPs. Sludge is thickened using rotary drum thickeners prior to dewatering using sludge centrifuges. The dewatered sludge is disposed in a landfill.

ATTACHMENT TR-1-0-7

Pollutant Analysis of Treated Effluent

Technical Report 1.0 Section 7

GARLAND WATER UTILITIES LABORATORY

Report of Analysis

For: **City of Garland- Rowlett Creek Wastewater Facility**
2500 E. Centerville Rd
Garland, TX 75040

Attn:

RC Saturday

Project Manager: _____ 04-Jun-24

Lab Manager

Client Sample ID: **Lab Sample ID:** 23123102-06
Site: Final Effluent RC **Collection Date:** 12/30/2023 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	5.8 mg/L	2	nwafer	12/31/2023
CBOD	SM 5210B	8.10 mg/L	2	nwafer	1/5/2024

Client Sample ID: **Lab Sample ID:** 23123102-06A
Site: Final Effluent RC **Collection Date:** 12/30/2023 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.3 mg/L	0.5	nwafer	12/31/2023

Client Sample ID: **Lab Sample ID:** 24010202-06
Site: Final Effluent RC **Collection Date:** 1/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	8.7 mg/L	2	tcessac	1/2/2024
CBOD	SM 5210B	6.10 mg/L	2	tcessac	1/7/2024

Client Sample ID: **Lab Sample ID:** 24010202-06A
Site: Final Effluent RC **Collection Date:** 1/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.9 mg/L	0.5	jhensley	1/3/2024

Client Sample ID: **Lab Sample ID:** 24010202-13
Site: Final Effluent RC outfall **Collection Date:** 1/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	17 MPN/100ml		jhensley	1/3/2024

Client Sample ID: **Lab Sample ID:** 24010204-06

Site: Final Effluent RC **Collection Date:** 12/31/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	10.1 mg/L	2	tcessac	1/2/2024
CBOD	SM 5210B	5.20 mg/L	2	tcessac	1/7/2024

Client Sample ID: **Lab Sample ID:** 24010204-06A

Site: Final Effluent RC **Collection Date:** 12/31/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.1 mg/L	0.5	jhensley	1/3/2024

Client Sample ID: **Lab Sample ID:** 24010302-06

Site: Final Effluent RC **Collection Date:** 1/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.2 mg/L	2	jhensley	1/3/2024
Ammonia Nitrogen	SM 4500NH3-G	2.1 mg/L	0.5	jhensley	1/3/2024
CBOD	SM 5210B	2.90 mg/L	2	jhensley	1/8/2024

Client Sample ID: **Lab Sample ID:** 24010302-14

Site: Final Effluent RC outfall **Collection Date:** 1/3/2024 7:52 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	20 MPN/100ml		jhensley	1/4/2024

Client Sample ID: **Lab Sample ID:** 24010402-06

Site: Final Effluent RC **Collection Date:** 1/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	6.4 mg/L	2	tcessac	1/4/2024
CBOD	SM 5210B	4.40 mg/L	2	nwafer	1/9/2024

Client Sample ID: **Lab Sample ID:** 24010402-06A

Site: Final Effluent RC **Collection Date:** 1/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.4 mg/L	0.5	jhensley	1/4/2024

Client Sample ID: **Lab Sample ID:** 24010402-13

Site: Final Effluent RC outfall **Collection Date:** 1/4/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	37 MPN/100ml		jhensley	1/4/2024

Client Sample ID: **Lab Sample ID:** 24010502-06

Site: Final Effluent RC **Collection Date:** 1/4/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	26.0	mg/L	2	tcessac	1/5/2024
CBOD	SM 5210B	4.70	mg/L	2	tcessac	1/10/2024

Client Sample ID: **Lab Sample ID:** 24010502-06A

Site: Final Effluent RC **Collection Date:** 1/4/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5	mg/L	0.5	jhensley	1/5/2024

Client Sample ID: **Lab Sample ID:** 24010502-14

Site: Final Effluent RC outfall **Collection Date:** 1/5/2024 8:54 AM

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	130	MPN/100ml		jhensley	1/6/2024

Client Sample ID: **Lab Sample ID:** 24010602-06

Site: Final Effluent RC **Collection Date:** 1/5/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	6.9	mg/L	2	Jmonk	1/6/2024
CBOD	SM 5210B	6.40	mg/L	2	tcessac	1/11/2024

Client Sample ID: **Lab Sample ID:** 24010602-06A

Site: Final Effluent RC **Collection Date:** 1/5/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7	mg/L	0.5	Jmonk	1/6/2024

Client Sample ID: **Lab Sample ID:** 24010602-09

Site: Final Effluent RC outfall **Collection Date:** 1/6/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	360	MPN/100ml		Jmonk	1/7/2024

Client Sample ID: **Lab Sample ID:** 24010702-06

Site: Final Effluent RC **Collection Date:** 1/6/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	22.4	mg/L	2	Jmonk	1/7/2024
CBOD	SM 5210B	8.60	mg/L	2	Jmonk	1/12/2024

Client Sample ID: **Lab Sample ID:** 24010702-06A

Site: Final Effluent RC **Collection Date:** 1/6/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6	mg/L	0.5	jmonk	1/7/2024

Client Sample ID: **Lab Sample ID:** 24010802-06

Site: Final Effluent RC **Collection Date:** 1/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	8.6	mg/L	2	jhensley	1/8/2024
CBOD	SM 5210B	10.5	mg/L	2	nwafer	1/13/2024

Client Sample ID: **Lab Sample ID:** 24010802-06A

Site: Final Effluent RC **Collection Date:** 1/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.3	mg/L	0.5	Jhensley	1/8/2024

Client Sample ID: **Lab Sample ID:** 24010802-14

Site: Final Effluent RC outfall **Collection Date:** 1/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	100	MPN/100ml		jhensley	1/9/2024

Client Sample ID: **Lab Sample ID:** 24010902-06

Site: Final Effluent RC **Collection Date:** 1/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	9.6	mg/L	2	jagriffin	1/9/2024
CBOD	SM 5210B	7.50	mg/L	2	nwafer	1/14/2024

Client Sample ID: **Lab Sample ID:** 24010902-06A

Site: Final Effluent RC **Collection Date:** 1/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.1	mg/L	0.5	Jhensley	1/9/2024

Client Sample ID: **Lab Sample ID:** 24010902-13

Site: Final Effluent RC outfall **Collection Date:** 1/9/2024 8:16 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	64	MPN/100ml		jhensley	1/10/2024

Client Sample ID: **Lab Sample ID:** 24011002-06

Site: Final Effluent RC **Collection Date:** 1/9/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	9.4	mg/L	2	jagriffin	1/10/2024
CBOD	SM 5210B	4.60	mg/L	2	tcessac	1/16/2024

Client Sample ID: **Lab Sample ID:** 24011002-06A

Site: Final Effluent RC **Collection Date:** 1/9/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8	mg/L	0.5	jhensley	1/10/2024

Client Sample ID: **Lab Sample ID:** 24011002-14

Site: Final Effluent RC outfall **Collection Date:** 1/10/2024 8:33 AM

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	29	MPN/100ml		jhensley	1/11/2024

Client Sample ID: **Lab Sample ID:** 24011102-06

Site: Final Effluent RC **Collection Date:** 1/10/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.0	mg/L	2	tcessac	1/11/2024
CBOD	SM 5210B	3.30	mg/L	2	tcessac	1/16/2024

Client Sample ID: **Lab Sample ID:** 24011102-06A

Site: Final Effluent RC **Collection Date:** 1/10/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6	mg/L	0.5	jhensley	1/11/2024

Client Sample ID: **Lab Sample ID:** 24011102-13

Site: Final Effluent RC outfall **Collection Date:** 1/11/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	30	MPN/100ml		jhensley	1/12/2024

Client Sample ID: **Lab Sample ID:** 24011202-06

Site: Final Effluent RC **Collection Date:** 1/11/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.8	mg/L	2	jhensley	1/12/2024
CBOD	SM 5210B	4.30	mg/L	2	nwafer	1/17/2024

Client Sample ID: **Lab Sample ID:** 24011202-06A
Site: Final Effluent RC **Collection Date:** 1/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7 mg/L	0.5	jhensley	1/12/2024

Client Sample ID: **Lab Sample ID:** 24011202-14
Site: Final Effluent RC outfall **Collection Date:** 1/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	14 MPN/100ml		tcessac	1/13/2024

Client Sample ID: **Lab Sample ID:** 24011302-06
Site: Final Effluent RC **Collection Date:** 1/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.3 mg/L	2	tcessac	1/13/2024
CBOD	SM 5210B	4.00 mg/L	2	tcessac	1/18/2024

Client Sample ID: **Lab Sample ID:** 24011302-06A
Site: Final Effluent RC **Collection Date:** 1/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.9 mg/L	0.5	tcessac	1/13/2024

Client Sample ID: **Lab Sample ID:** 24011402-06
Site: Final Effluent RC **Collection Date:** 1/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.8 mg/L	2	tcessac	1/14/2024
CBOD	SM 5210B	4.90 mg/L	2	tcessac	1/19/2024

Client Sample ID: **Lab Sample ID:** 24011402-06A
Site: Final Effluent RC **Collection Date:** 1/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.7 mg/L	0.5	tcessac	1/14/2024

Client Sample ID: **Lab Sample ID:** 24011602-06
Site: Final Effluent RC **Collection Date:** 1/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.3 mg/L	2	Jmonk	1/16/2024
CBOD	SM 5210B	3.60 mg/L	2	jhensley	1/21/2024

Client Sample ID: **Lab Sample ID:** 24011602-06A

Site: Final Effluent RC **Collection Date:** 1/15/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.9	mg/L	0.5	jhensley	1/16/2024

Client Sample ID: **Lab Sample ID:** 24011602-13

Site: Final Effluent RC outfall **Collection Date:** 1/16/2024 8:19 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	4.0	MPN/100ml		jhensley	1/17/2024

Client Sample ID: **Lab Sample ID:** 24011604-06

Site: Final Effluent RC **Collection Date:** 1/14/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.5	mg/L	2	Jmonk	1/16/2024
CBOD	SM 5210B	3.10	mg/L	2	jhensley	1/21/2024

Client Sample ID: **Lab Sample ID:** 24011604-06A

Site: Final Effluent RC **Collection Date:** 1/14/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.7	mg/L	0.5	jhensley	1/16/2024

Client Sample ID: **Lab Sample ID:** 24011702-06

Site: Final Effluent RC **Collection Date:** 1/16/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	6.3	mg/L	2	tcessac	1/17/2024
CBOD	SM 5210B	4.30	mg/L	2	tcessac	1/22/2024

Client Sample ID: **Lab Sample ID:** 24011702-06A

Site: Final Effluent RC **Collection Date:** 1/16/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2	mg/L	0.5	jhensley	1/17/2024

Client Sample ID: **Lab Sample ID:** 24011702-14

Site: Final Effluent RC outfall **Collection Date:** 1/17/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	13	MPN/100ml		jhensley	1/18/2024

Client Sample ID: **Lab Sample ID:** 24011802-06
Site: Final Effluent RC **Collection Date:** 1/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	1/18/2024
CBOD	SM 5210B	3.10 mg/L	2	tcessac	1/23/2024

Client Sample ID: **Lab Sample ID:** 24011802-06A
Site: Final Effluent RC **Collection Date:** 1/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8 mg/L	0.5	jhensley	1/18/2024

Client Sample ID: **Lab Sample ID:** 24011802-13
Site: Final Effluent RC outfall **Collection Date:** 1/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	6.0 MPN/100ml		jhensley	1/19/2024

Client Sample ID: **Lab Sample ID:** 24011902-06
Site: Final Effluent RC **Collection Date:** 1/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.1 mg/L	2	tcessac	1/19/2024
CBOD	SM 5210B	3.50 mg/L	2	tcessac	1/24/2024

Client Sample ID: **Lab Sample ID:** 24011902-06A
Site: Final Effluent RC **Collection Date:** 1/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.3 mg/L	0.5	jhensley	1/19/2024

Client Sample ID: **Lab Sample ID:** 24011902-14
Site: Final Effluent RC outfall **Collection Date:** 1/19/2024 7:46 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	2.0 MPN/100ml		nwafer	1/20/2024

Client Sample ID: **Lab Sample ID:** 24012002-06
Site: Final Effluent RC **Collection Date:** 1/19/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.2 mg/L	2	nwafer	1/20/2024
CBOD	SM 5210B	3.90 mg/L	2	nwafer	1/25/2024

Client Sample ID: **Lab Sample ID:** 24012002-06A

Site: Final Effluent RC **Collection Date:** 1/19/2024 12:00 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7	mg/L	0.5	nwafer	1/20/2024

Client Sample ID: **Lab Sample ID:** 24012002-09

Site: Final Effluent RC outfall **Collection Date:** 1/20/2024 7:35 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	1/21/2024

Client Sample ID: **Lab Sample ID:** 24012102-06

Site: Final Effluent RC **Collection Date:** 1/20/2024 12:00 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	5.6	mg/L	2	nwafer	1/21/2024
CBOD	SM 5210B	5.00	mg/L	2	tcessac	1/26/2024

Client Sample ID: **Lab Sample ID:** 24012102-06A

Site: Final Effluent RC **Collection Date:** 1/20/2024 12:00 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.8	mg/L	0.5	nwafer	1/21/2024

Client Sample ID: **Lab Sample ID:** 24012202-06

Site: Final Effluent RC **Collection Date:** 1/21/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	6.7	mg/L	2	jagriffin	1/22/2024
CBOD	SM 5210B	8.10	mg/L	2	nwafer	1/27/2024

Client Sample ID: **Lab Sample ID:** 24012202-06A

Site: Final Effluent RC **Collection Date:** 1/21/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2	mg/L	0.5	jhensley	1/22/2024

Client Sample ID: **Lab Sample ID:** 24012202-14

Site: Final Effluent RC outfall **Collection Date:** 1/22/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	5.0	MPN/100ml		jhensley	1/23/2024

Client Sample ID: **Lab Sample ID:** 24012302-06
Site: Final Effluent RC **Collection Date:** 1/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	6.9 mg/L	2	tcessac	1/23/2024
CBOD	SM 5210B	4.40 mg/L	2	jhensley	1/28/2024

Client Sample ID: **Lab Sample ID:** 24012302-06A
Site: Final Effluent RC **Collection Date:** 1/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.7 mg/L	0.5	jhensley	1/23/2024

Client Sample ID: **Lab Sample ID:** 24012302-13
Site: Final Effluent RC outfall **Collection Date:** 1/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	1/24/2024

Client Sample ID: **Lab Sample ID:** 24012402-06
Site: Final Effluent RC **Collection Date:** 1/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.2 mg/L	2	tcessac	1/24/2024
CBOD	SM 5210B	3.60 mg/L	2	tcessac	1/29/2024

Client Sample ID: **Lab Sample ID:** 24012402-06A
Site: Final Effluent RC **Collection Date:** 1/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.4 mg/L	0.5	jhensley	1/24/2024

Client Sample ID: **Lab Sample ID:** 24012402-14
Site: Final Effluent RC outfall **Collection Date:** 1/24/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	2.0 MPN/100ml		jhensley	1/25/2024

Client Sample ID: **Lab Sample ID:** 24012502-06
Site: Final Effluent RC **Collection Date:** 1/24/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.8 mg/L	2	tcessac	1/25/2024
CBOD	SM 5210B	3.60 mg/L	2	tcessac	1/30/2024

Client Sample ID: **Lab Sample ID:** 24012502-06A

Site: Final Effluent RC **Collection Date:** 1/24/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5	mg/L	0.5	jhensley	1/25/2024

Client Sample ID: **Lab Sample ID:** 24012502-13

Site: Final Effluent RC outfall **Collection Date:** 1/25/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	2.0	MPN/100ml		jhensley	1/26/2024

Client Sample ID: **Lab Sample ID:** 24012602-06

Site: Final Effluent RC **Collection Date:** 1/25/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2	mg/L	2	tcessac	1/29/2024
Ammonia Nitrogen	SM 4500NH3-G	NA		0.5	jhensley	1/26/2024
CBOD	SM 5210B	3.40	mg/L	2	tcessac	1/31/2024

Client Sample ID: **Lab Sample ID:** 24012602-06A

Site: Final Effluent RC **Collection Date:** 1/25/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5	mg/L	0.5	jhensley	1/26/2024

Client Sample ID: **Lab Sample ID:** 24012602-14

Site: Final Effluent RC outfall **Collection Date:** 1/26/2024 7:40 AM

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		jhensley	1/27/2024

Client Sample ID: **Lab Sample ID:** 24012702-06

Site: Final Effluent RC **Collection Date:** 1/26/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2	mg/L	2	jhensley	1/27/2024
CBOD	SM 5210B	<2	mg/L	2	jhensley	2/1/2024

Client Sample ID: **Lab Sample ID:** 24012702-06A

Site: Final Effluent RC **Collection Date:** 1/26/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5	mg/L	0.5	jhensley	1/27/2024

Client Sample ID: **Lab Sample ID:** 24012802-06
Site: Final Effluent RC **Collection Date:** 1/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	jhensley	1/28/2024
CBOD	SM 5210B	2.50 mg/L	2	tcessac	2/2/2024

Client Sample ID: **Lab Sample ID:** 24012802-06A
Site: Final Effluent RC **Collection Date:** 1/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jhensley	1/28/2024

Client Sample ID: **Lab Sample ID:** 24012902-06
Site: Final Effluent RC **Collection Date:** 1/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	1/29/2024
CBOD	SM 5210B	2.00 mg/L	2	tcessac	2/3/2024

Client Sample ID: **Lab Sample ID:** 24012902-06A
Site: Final Effluent RC **Collection Date:** 1/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	1/29/2024

Client Sample ID: **Lab Sample ID:** 24012902-14
Site: Final Effluent RC outfall **Collection Date:** 1/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		Jmonk	1/30/2024

Client Sample ID: **Lab Sample ID:** 24013002-06
Site: Final Effluent RC **Collection Date:** 1/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.5 mg/L	2	tcessac	1/30/2024
CBOD	SM 5210B	2.20 mg/L	2	tcessac	2/4/2024

Client Sample ID: **Lab Sample ID:** 24013002-06A
Site: Final Effluent RC **Collection Date:** 1/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jhensley	1/30/2024

Client Sample ID: **Lab Sample ID:** 24013002-13

Site: Final Effluent RC outfall **Collection Date:** 1/30/2024 8:35 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	1/31/2024

Client Sample ID: **Lab Sample ID:** 24013102-06

Site: Final Effluent RC **Collection Date:** 1/30/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	jhensley	1/31/2024
CBOD	SM 5210B	2.30 mg/L	2	Jmonk	2/5/2024

Client Sample ID: **Lab Sample ID:** 24013102-06A

Site: Final Effluent RC **Collection Date:** 1/30/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jhensley	1/31/2024

Client Sample ID: **Lab Sample ID:** 24013102-14

Site: Final Effluent RC outfall **Collection Date:** 1/31/2024 7:30 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/1/2024

Client Sample ID: **Lab Sample ID:** 24020102-06

Site: Final Effluent RC **Collection Date:** 1/31/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	2/1/2024
CBOD	SM 5210B	3.60 mg/L	2	jhensley	2/6/2024

Client Sample ID: **Lab Sample ID:** 24020102-06A

Site: Final Effluent RC **Collection Date:** 1/31/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5 mg/L	0.5	jhensley	2/1/2024

Client Sample ID: **Lab Sample ID:** 24020102-13

Site: Final Effluent RC outfall **Collection Date:** 2/1/2024 7:48 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/2/2024

Client Sample ID: **Lab Sample ID:** 24020202-06
Site: Final Effluent RC **Collection Date:** 2/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/2/2024
CBOD	SM 5210B	2.50 mg/L	2	tcessac	2/7/2024

Client Sample ID: **Lab Sample ID:** 24020202-06A
Site: Final Effluent RC **Collection Date:** 2/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jhensley	2/2/2024

Client Sample ID: **Lab Sample ID:** 24020202-14
Site: Final Effluent RC outfall **Collection Date:** 2/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/3/2024

Client Sample ID: **Lab Sample ID:** 24020302-06
Site: Final Effluent RC **Collection Date:** 2/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/3/2024
CBOD	SM 5210B	2.80 mg/L	2	tcessac	2/8/2024

Client Sample ID: **Lab Sample ID:** 24020302-06A
Site: Final Effluent RC **Collection Date:** 2/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7 mg/L	0.5	tcessac	2/3/2024

Client Sample ID: **Lab Sample ID:** 24020402-06
Site: Final Effluent RC **Collection Date:** 2/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/4/2024
CBOD	SM 5210B	3.10 mg/L	2	tcessac	2/9/2024

Client Sample ID: **Lab Sample ID:** 24020402-06A
Site: Final Effluent RC **Collection Date:** 2/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	tcessac	2/4/2024

Client Sample ID: **Lab Sample ID:** 24020502-06

Site: Final Effluent RC **Collection Date:** 2/4/2025

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	jagriffin	2/5/2024
CBOD	SM 5210B	3.40 mg/L	2	nwafer	2/10/2024

Client Sample ID: **Lab Sample ID:** 24020502-06A

Site: Final Effluent RC **Collection Date:** 2/4/2025

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5 mg/L	0.5	jhensley	2/5/2024

Client Sample ID: **Lab Sample ID:** 24020502-14

Site: Final Effluent RC outfall **Collection Date:** 2/5/2024 8:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/6/2024

Client Sample ID: **Lab Sample ID:** 24020602-06

Site: Final Effluent RC **Collection Date:** 2/5/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/6/2024
CBOD	SM 5210B	2.90 mg/L	2	jhensley	2/11/2024

Client Sample ID: **Lab Sample ID:** 24020602-06A

Site: Final Effluent RC **Collection Date:** 2/5/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.5 mg/L	0.5	jhensley	2/6/2024

Client Sample ID: **Lab Sample ID:** 24020602-13

Site: Final Effluent RC outfall **Collection Date:** 2/6/2024 8:32 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/7/2024

Client Sample ID: **Lab Sample ID:** 24020702-06

Site: Final Effluent RC **Collection Date:** 2/6/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/7/2024
CBOD	SM 5210B	2.70 mg/L	2	jhensley	2/12/2024

Client Sample ID: **Lab Sample ID:** 24020702-06A

Site: Final Effluent RC **Collection Date:** 2/6/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.9	mg/L	0.5	jhensley	2/7/2024

Client Sample ID: **Lab Sample ID:** 24020702-14

Site: Final Effluent RC outfall **Collection Date:** 2/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		jhensley	2/8/2024

Client Sample ID: **Lab Sample ID:** 24020802-06

Site: Final Effluent RC **Collection Date:** 2/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2	mg/L	2	tcessac	2/8/2024
CBOD	SM 5210B	2.90	mg/L	2	tcessac	2/13/2024

Client Sample ID: **Lab Sample ID:** 24020802-06A

Site: Final Effluent RC **Collection Date:** 2/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8	mg/L	0.5	jagriffin	2/8/2024

Client Sample ID: **Lab Sample ID:** 24020802-13

Site: Final Effluent RC outfall **Collection Date:** 2/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	2/9/2024

Client Sample ID: **Lab Sample ID:** 24020902-06

Site: Final Effluent RC **Collection Date:** 2/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2	mg/L	2	tcessac	2/9/2024
CBOD	SM 5210B	3.00	mg/L	2	tcessac	2/14/2024

Client Sample ID: **Lab Sample ID:** 24020902-06A

Site: Final Effluent RC **Collection Date:** 2/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6	mg/L	0.5	jhensley	2/9/2024

Client Sample ID: **Lab Sample ID:** 24020902-14

Site: Final Effluent RC outfall **Collection Date:** 2/9/2024 8:05 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/10/2024

Client Sample ID: **Lab Sample ID:** 24021002-06

Site: Final Effluent RC **Collection Date:** 2/9/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	nwafer	2/10/2024
CBOD	SM 5210B	5.30 mg/L	2	tcessac	2/15/2024

Client Sample ID: **Lab Sample ID:** 24021002-06A

Site: Final Effluent RC **Collection Date:** 2/9/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6 mg/L	0.5	nwafer	2/10/2024

Client Sample ID: **Lab Sample ID:** 24021102-06

Site: Final Effluent RC **Collection Date:** 2/10/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.8 mg/L	2	nwafer	2/11/2024
CBOD	SM 5210B	4.70 mg/L	2	tcessac	2/16/2024

Client Sample ID: **Lab Sample ID:** 24021102-06A

Site: Final Effluent RC **Collection Date:** 2/10/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	nwafer	2/11/2024

Client Sample ID: **Lab Sample ID:** 24021202-06

Site: Final Effluent RC **Collection Date:** 2/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	2/12/2024
CBOD	SM 5210B	2.70 mg/L	2	nwafer	2/17/2024

Client Sample ID: **Lab Sample ID:** 24021202-06A

Site: Final Effluent RC **Collection Date:** 2/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.0 mg/L	0.5	jhensley	2/12/2024

Client Sample ID: **Lab Sample ID:** 24021202-14

Site: Final Effluent RC outfall **Collection Date:** 2/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/13/2024

Client Sample ID: **Lab Sample ID:** 24021302-06

Site: Final Effluent RC **Collection Date:** 2/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	jagriffin	2/13/2024
CBOD	SM 5210B	4.30 mg/L	2	nwafer	2/18/2024

Client Sample ID: **Lab Sample ID:** 24021302-06A

Site: Final Effluent RC **Collection Date:** 2/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.3 mg/L	0.5	jhensley	2/13/2024

Client Sample ID: **Lab Sample ID:** 24021302-13

Site: Final Effluent RC outfall **Collection Date:** 2/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/14/2024

Client Sample ID: **Lab Sample ID:** 24021402-06

Site: Final Effluent RC **Collection Date:** 2/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/14/2024
CBOD	SM 5210B	2.70 mg/L	2	tcessac	2/19/2024

Client Sample ID: **Lab Sample ID:** 24021402-06A

Site: Final Effluent RC **Collection Date:** 2/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.4 mg/L	0.5	jhensley	2/14/2024

Client Sample ID: **Lab Sample ID:** 24021402-14

Site: Final Effluent RC outfall **Collection Date:** 2/14/2024 8:17 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jhensley	2/15/2024

Client Sample ID: **Lab Sample ID:** 24021502-06
Site: Final Effluent RC **Collection Date:** 2/14/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/15/2024
CBOD	SM 5210B	2.60 mg/L	2	tcessac	2/20/2024

Client Sample ID: **Lab Sample ID:** 24021502-06A
Site: Final Effluent RC **Collection Date:** 2/14/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6 mg/L	0.5	jagriffin	2/15/2024

Client Sample ID: **Lab Sample ID:** 24021502-13
Site: Final Effluent RC outfall **Collection Date:** 2/15/2024 7:35 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	2.0 MPN/100ml		nwafer	2/16/2024

Client Sample ID: **Lab Sample ID:** 24021602-06
Site: Final Effluent RC **Collection Date:** 2/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/16/2024
CBOD	SM 5210B	2.10 mg/L	2	tcessac	2/21/2024

Client Sample ID: **Lab Sample ID:** 24021602-06A
Site: Final Effluent RC **Collection Date:** 2/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	2/16/2024

Client Sample ID: **Lab Sample ID:** 24021602-14
Site: Final Effluent RC outfall **Collection Date:** 2/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/17/2024

Client Sample ID: **Lab Sample ID:** 24021702-06
Site: Final Effluent RC **Collection Date:** 2/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	2/17/2024
CBOD	SM 5210B	3.30 mg/L	2	Jmonk	2/22/2024

Client Sample ID: **Lab Sample ID:** 24021702-06A
Site: Final Effluent RC **Collection Date:** 2/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jmonk	2/17/2024

Client Sample ID: **Lab Sample ID:** 24021802-06
Site: Final Effluent RC **Collection Date:** 2/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	2/18/2024
CBOD	SM 5210B	3.60 mg/L	2	Jmonk	2/23/2024

Client Sample ID: **Lab Sample ID:** 24021802-06A
Site: Final Effluent RC **Collection Date:** 2/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.6 mg/L	0.5	jmonk	2/18/2024

Client Sample ID: **Lab Sample ID:** 24021902-06
Site: Final Effluent RC **Collection Date:** 2/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/19/2024
CBOD	SM 5210B	2.50 mg/L	2	tcessac	2/24/2024

Client Sample ID: **Lab Sample ID:** 24021902-06A
Site: Final Effluent RC **Collection Date:** 2/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	jagriffin	2/19/2024

Client Sample ID: **Lab Sample ID:** 24021902-14
Site: Final Effluent RC outfall **Collection Date:** 2/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jagriffin	2/20/2024

Client Sample ID: **Lab Sample ID:** 24022002-06
Site: Final Effluent RC **Collection Date:** 2/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/20/2024
CBOD	SM 5210B	2.80 mg/L	2	tcessac	2/26/2024

Client Sample ID: **Lab Sample ID:** 24022002-06A

Site: Final Effluent RC **Collection Date:** 2/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.5 mg/L	0.5	jagriffin	2/20/2024

Client Sample ID: **Lab Sample ID:** 24022002-13

Site: Final Effluent RC outfall **Collection Date:** 2/20/2024 8:10 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		jagriffin	2/21/2024

Client Sample ID: **Lab Sample ID:** 24022102-06

Site: Final Effluent RC **Collection Date:** 2/20/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/21/2024
CBOD	SM 5210B	3.60 mg/L	2	tcessac	2/26/2024

Client Sample ID: **Lab Sample ID:** 24022102-06A

Site: Final Effluent RC **Collection Date:** 2/20/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.0 mg/L	0.5	jagriffin	2/21/2024

Client Sample ID: **Lab Sample ID:** 24022102-14

Site: Final Effluent RC outfall **Collection Date:** 2/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/22/2024

Client Sample ID: **Lab Sample ID:** 24022202-06

Site: Final Effluent RC **Collection Date:** 2/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/22/2024
CBOD	SM 5210B	3.40 mg/L	2	tcessac	2/27/2024

Client Sample ID: **Lab Sample ID:** 24022202-06A

Site: Final Effluent RC **Collection Date:** 2/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	jagriffin	2/22/2024

Client Sample ID: **Lab Sample ID:** 24022202-13

Site: Final Effluent RC outfall **Collection Date:** 2/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/23/2024

Client Sample ID: **Lab Sample ID:** 24022302-06

Site: Final Effluent RC **Collection Date:** 2/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	2/23/2024
CBOD	SM 5210B	4.30 mg/L	2	Jmonk	2/28/2024

Client Sample ID: **Lab Sample ID:** 24022302-06A

Site: Final Effluent RC **Collection Date:** 2/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	2/23/2024

Client Sample ID: **Lab Sample ID:** 24022302-14

Site: Final Effluent RC outfall **Collection Date:** 2/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	4.0 MPN/100ml		Jmonk	2/24/2024

Client Sample ID: **Lab Sample ID:** 24022402-06

Site: Final Effluent RC **Collection Date:** 2/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	jagriffin	2/26/2024
CBOD	SM 5210B	4.20 mg/L	2	jagriffin	2/29/2024

Client Sample ID: **Lab Sample ID:** 24022402-06A

Site: Final Effluent RC **Collection Date:** 2/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7 mg/L	0.5	jagriffin	2/24/2024

Client Sample ID: **Lab Sample ID:** 24022502-06

Site: Final Effluent RC **Collection Date:** 2/24/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.5 mg/L	2	jagriffin	2/26/2024
CBOD	SM 5210B	4.70 mg/L	2	jagriffin	3/1/2024

Client Sample ID: **Lab Sample ID:** 24022502-06A
Site: Final Effluent RC **Collection Date:** 2/24/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	jagriffin	2/25/2024

Client Sample ID: **Lab Sample ID:** 24022602-06
Site: Final Effluent RC **Collection Date:** 2/25/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/26/2024
CBOD	SM 5210B	3.20 mg/L	2	tcessac	3/2/2024

Client Sample ID: **Lab Sample ID:** 24022602-06A
Site: Final Effluent RC **Collection Date:** 2/25/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.8 mg/L	0.5	jagriffin	2/26/2024

Client Sample ID: **Lab Sample ID:** 24022602-14
Site: Final Effluent RC outfall **Collection Date:** 2/26/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/27/2024

Client Sample ID: **Lab Sample ID:** 24022702-06
Site: Final Effluent RC **Collection Date:** 2/26/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.9 mg/L	2	tcessac	2/27/2024
CBOD	SM 5210B	4.00 mg/L	2	tcessac	3/3/2024

Client Sample ID: **Lab Sample ID:** 24022702-06A
Site: Final Effluent RC **Collection Date:** 2/26/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.8 mg/L	0.5	jagriffin	2/27/2024

Client Sample ID: **Lab Sample ID:** 24022702-13
Site: Final Effluent RC outfall **Collection Date:** 2/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/28/2024

Client Sample ID: **Lab Sample ID:** 24022802-06
Site: Final Effluent RC **Collection Date:** 2/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/28/2024
CBOD	SM 5210B	3.80 mg/L	2	nwafer	3/4/2024

Client Sample ID: **Lab Sample ID:** 24022802-06A
Site: Final Effluent RC **Collection Date:** 2/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.5 mg/L	0.5	jagriffin	2/28/2024

Client Sample ID: **Lab Sample ID:** 24022802-14
Site: Final Effluent RC outfall **Collection Date:** 2/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	2/29/2024

Client Sample ID: **Lab Sample ID:** 24022902-06
Site: Final Effluent RC **Collection Date:** 2/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	2/29/2024
CBOD	SM 5210B	3.90 mg/L	2	tcessac	3/5/2024

Client Sample ID: **Lab Sample ID:** 24022902-06A
Site: Final Effluent RC **Collection Date:** 2/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.1 mg/L	0.5	jagriffin	2/29/2024

Client Sample ID: **Lab Sample ID:** 24022902-13
Site: Final Effluent RC outfall **Collection Date:** 2/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/1/2024

Client Sample ID: **Lab Sample ID:** 24030102-06
Site: Final Effluent RC **Collection Date:** 2/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/1/2024
CBOD	SM 5210B	3.20 mg/L	2	tcessac	3/6/2024

Client Sample ID: **Lab Sample ID:** 24030102-06A
Site: Final Effluent RC **Collection Date:** 2/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.1 mg/L	0.5	jagriffin	3/1/2024

Client Sample ID: **Lab Sample ID:** 24030102-14
Site: Final Effluent RC outfall **Collection Date:** 3/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/2/2024

Client Sample ID: **Lab Sample ID:** 24030202-06
Site: Final Effluent RC **Collection Date:** 3/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/2/2024
CBOD	SM 5210B	4.00 mg/L	2	tcessac	3/7/2024

Client Sample ID: **Lab Sample ID:** 24030202-06A
Site: Final Effluent RC **Collection Date:** 3/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.2 mg/L	0.5	tcessac	3/2/2024

Client Sample ID: **Lab Sample ID:** 24030302-06
Site: Final Effluent RC **Collection Date:** 3/2/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.7 mg/L	2	nwafer	3/3/2024
CBOD	SM 5210B	6.30 mg/L	2	nwafer	3/8/2024

Client Sample ID: **Lab Sample ID:** 24030302-06A
Site: Final Effluent RC **Collection Date:** 3/2/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.7 mg/L	0.5	nwafer	3/3/2024

Client Sample ID: **Lab Sample ID:** 24030402-06
Site: Final Effluent RC **Collection Date:** 3/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.3 mg/L	2	Jmonk	3/4/2024
CBOD	SM 5210B	5.90 mg/L	2	nwafer	3/9/2024

Client Sample ID: **Lab Sample ID:** 24030402-06A
Site: Final Effluent RC **Collection Date:** 3/3/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.8	mg/L	0.5	jagriffin	3/4/2024

Client Sample ID: **Lab Sample ID:** 24030402-14
Site: Final Effluent RC outfall **Collection Date:** 3/4/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	3/5/2024

Client Sample ID: **Lab Sample ID:** 24030502-06
Site: Final Effluent RC **Collection Date:** 3/4/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.5	mg/L	2	tcessac	3/5/2024
Ammonia Nitrogen	SM 4500NH3-G	NA		0.5	jagriffin	3/5/2024
CBOD	SM 5210B	5.40	mg/L	2	tcessac	3/10/2024

Client Sample ID: **Lab Sample ID:** 24030502-06A
Site: Final Effluent RC **Collection Date:** 3/4/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.6	mg/L	0.5	jagriffin	3/5/2024

Client Sample ID: **Lab Sample ID:** 24030502-13
Site: Final Effluent RC outfall **Collection Date:** 3/5/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	3/6/2024

Client Sample ID: **Lab Sample ID:** 24030602-06
Site: Final Effluent RC **Collection Date:** 3/5/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.6	mg/L	2	jagriffin	3/6/2024
CBOD	SM 5210B	6.10	mg/L	2	nwafer	3/11/2024

Client Sample ID: **Lab Sample ID:** 24030602-06A
Site: Final Effluent RC **Collection Date:** 3/5/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.9	mg/L	0.5	jagriffin	3/6/2024

Client Sample ID: **Lab Sample ID:** 24030602-14

Site: Final Effluent RC outfall **Collection Date:** 3/6/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	3/7/2024

Client Sample ID: **Lab Sample ID:** 24030702-06

Site: Final Effluent RC **Collection Date:** 3/6/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.8	mg/L	2	jagriffin	3/7/2024
CBOD	SM 5210B	4.00	mg/L	2	nwafer	3/12/2024

Client Sample ID: **Lab Sample ID:** 24030702-06A

Site: Final Effluent RC **Collection Date:** 3/6/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.1	mg/L	0.5	jagriffin	3/7/2024

Client Sample ID: **Lab Sample ID:** 24030702-13

Site: Final Effluent RC outfall **Collection Date:** 3/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	1.0	MPN/100ml		nwafer	3/8/2024

Client Sample ID: **Lab Sample ID:** 24030802-06

Site: Final Effluent RC **Collection Date:** 3/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2	mg/L	2	tcessac	3/8/2024
CBOD	SM 5210B	2.70	mg/L	2	tcessac	3/13/2024

Client Sample ID: **Lab Sample ID:** 24030802-06A

Site: Final Effluent RC **Collection Date:** 3/7/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.5	mg/L	0.5	jagriffin	3/8/2024

Client Sample ID: **Lab Sample ID:** 24030802-14

Site: Final Effluent RC outfall **Collection Date:** 3/8/2024

Analyte	Method	Sample Result		Specification	Analyst	Anal. Date
Ecoli	Colilert-18	16	MPN/100ml		nwafer	3/9/2024

Client Sample ID: **Lab Sample ID:** 24030902-06
Site: Final Effluent RC **Collection Date:** 3/8/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/9/2024
CBOD	SM 5210B	3.90 mg/L	2	tcessac	3/14/2024

Client Sample ID: **Lab Sample ID:** 24030902-06A
Site: Final Effluent RC **Collection Date:** 3/8/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	3.1 mg/L	0.5	tcessac	3/9/2024

Client Sample ID: **Lab Sample ID:** 24031002-06
Site: Final Effluent RC **Collection Date:** 3/9/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.2 mg/L	2	tcessac	3/10/2024
CBOD	SM 5210B	3.20 mg/L	2	tcessac	3/15/2024

Client Sample ID: **Lab Sample ID:** 24031002-06A
Site: Final Effluent RC **Collection Date:** 3/9/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5 mg/L	0.5	tcessac	3/10/2024

Client Sample ID: **Lab Sample ID:** 24031102-06
Site: Final Effluent RC **Collection Date:** 3/10/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/11/2024
CBOD	SM 5210B	2.80 mg/L	2	tcessac	3/16/2024

Client Sample ID: **Lab Sample ID:** 24031102-06A
Site: Final Effluent RC **Collection Date:** 3/10/2024 12:00 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.0 mg/L	0.5	nwafer	3/11/2024

Client Sample ID: **Lab Sample ID:** 24031102-09
Site: Final Effluent RC **Collection Date:** 3/11/2024 7:31 AM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/12/2024

Client Sample ID: **Lab Sample ID:** 24031202-06

Site: Final Effluent RC **Collection Date:** 3/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	3/12/2024
CBOD	SM 5210B	3.10 mg/L	2	jagriffin	3/17/2024

Client Sample ID: **Lab Sample ID:** 24031202-06A

Site: Final Effluent RC **Collection Date:** 3/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.4 mg/L	0.5	nwafer	3/12/2024

Client Sample ID: **Lab Sample ID:** 24031202-13

Site: Final Effluent RC outfall **Collection Date:** 3/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	9.0 MPN/100ml		nwafer	3/13/2024

Client Sample ID: **Lab Sample ID:** 24031302-06

Site: Final Effluent RC **Collection Date:** 3/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/13/2024
CBOD	SM 5210B	2.20 mg/L	2	tcessac	3/18/2024

Client Sample ID: **Lab Sample ID:** 24031302-06A

Site: Final Effluent RC **Collection Date:** 3/12/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	3/13/2024

Client Sample ID: **Lab Sample ID:** 24031302-14

Site: Final Effluent RC outfall **Collection Date:** 3/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	3.0 MPN/100ml		nwafer	3/14/2024

Client Sample ID: **Lab Sample ID:** 24031402-06

Site: Final Effluent RC **Collection Date:** 3/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/14/2024
CBOD	SM 5210B	2.50 mg/L	2	tcessac	3/19/2024

Client Sample ID: **Lab Sample ID:** 24031402-06A
Site: Final Effluent RC **Collection Date:** 3/13/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	3/14/2024

Client Sample ID: **Lab Sample ID:** 24031402-13
Site: Final Effluent RC outfall **Collection Date:** 3/14/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	24 MPN/100ml		nwafer	3/15/2024

Client Sample ID: **Lab Sample ID:** 24031502-06
Site: Final Effluent RC **Collection Date:** 3/14/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/15/2024
CBOD	SM 5210B	2.60 mg/L	2	tcessac	3/20/2024

Client Sample ID: **Lab Sample ID:** 24031502-06A
Site: Final Effluent RC **Collection Date:** 3/14/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	3/15/2024

Client Sample ID: **Lab Sample ID:** 24031502-14
Site: Final Effluent RC outfall **Collection Date:** 3/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	14 MPN/100ml		nwafer	3/16/2024

Client Sample ID: **Lab Sample ID:** 24031602-06
Site: Final Effluent RC **Collection Date:** 3/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	3/16/2024
CBOD	SM 5210B	3.00 mg/L	2	tcessac	3/21/2024

Client Sample ID: **Lab Sample ID:** 24031602-06A
Site: Final Effluent RC **Collection Date:** 3/15/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8 mg/L	0.5	jmonk	3/16/2024

Client Sample ID: **Lab Sample ID:** 24031702-06
Site: Final Effluent RC **Collection Date:** 3/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.1 mg/L	2	Jmonk	3/17/2024
CBOD	SM 5210B	3.90 mg/L	2	Jmonk	3/22/2024

Client Sample ID: **Lab Sample ID:** 24031702-06A
Site: Final Effluent RC **Collection Date:** 3/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.2 mg/L	0.5	Jmonk	3/17/2024

Client Sample ID: **Lab Sample ID:** 24031802-06
Site: Final Effluent RC **Collection Date:** 3/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	Jmonk	3/18/2024
CBOD	SM 5210B	3.40 mg/L	2	nwafer	3/23/2024

Client Sample ID: **Lab Sample ID:** 24031802-06A
Site: Final Effluent RC **Collection Date:** 3/17/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.4 mg/L	0.5	jagriffin	3/18/2024

Client Sample ID: **Lab Sample ID:** 24031802-14
Site: Final Effluent RC outfall **Collection Date:** 3/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/19/2024

Client Sample ID: **Lab Sample ID:** 24031902-06
Site: Final Effluent RC **Collection Date:** 3/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/19/2024
CBOD	SM 5210B	3.00 mg/L	2	tcessac	3/24/2024

Client Sample ID: **Lab Sample ID:** 24031902-06A
Site: Final Effluent RC **Collection Date:** 3/18/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8 mg/L	0.5	jagriffin	3/19/2024

Client Sample ID: **Lab Sample ID:** 24031902-13

Site: Final Effluent RC outfall **Collection Date:** 3/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/20/2024

Client Sample ID: **Lab Sample ID:** 24032002-06

Site: Final Effluent RC **Collection Date:** 3/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/21/2024
CBOD	SM 5210B	2.60 mg/L	2	tcessac	3/25/2024

Client Sample ID: **Lab Sample ID:** 24032002-06A

Site: Final Effluent RC **Collection Date:** 3/19/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5 mg/L	0.5	jagriffin	3/20/2024

Client Sample ID: **Lab Sample ID:** 24032002-14

Site: Final Effluent RC outfall **Collection Date:** 3/20/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		Jmonk	3/21/2024

Client Sample ID: **Lab Sample ID:** 24032102-06

Site: Final Effluent RC **Collection Date:** 3/20/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/22/2024
CBOD	SM 5210B	2.40 mg/L	2	tcessac	3/26/2024

Client Sample ID: **Lab Sample ID:** 24032102-06A

Site: Final Effluent RC **Collection Date:** 3/20/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7 mg/L	0.5	jagriffin	3/21/2024

Client Sample ID: **Lab Sample ID:** 24032102-13

Site: Final Effluent RC outfall **Collection Date:** 3/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	1.0 MPN/100ml		nwafer	3/22/2024

Client Sample ID: **Lab Sample ID:** 24032202-06
Site: Final Effluent RC **Collection Date:** 3/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	<2 mg/L	2	tcessac	3/22/2024
CBOD	SM 5210B	2.70 mg/L	2	tcessac	3/27/2024

Client Sample ID: **Lab Sample ID:** 24032202-06A
Site: Final Effluent RC **Collection Date:** 3/21/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.7 mg/L	0.5	jagriffin	3/22/2024

Client Sample ID: **Lab Sample ID:** 24032202-14
Site: Final Effluent RC outfall **Collection Date:** 3/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	65 MPN/100ml		nwafer	3/23/2024

Client Sample ID: **Lab Sample ID:** 24032302-06
Site: Final Effluent RC **Collection Date:** 3/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.9 mg/L	2	tcessac	3/23/2024
CBOD	SM 5210B	4.30 mg/L	2	tcessac	3/28/2024

Client Sample ID: **Lab Sample ID:** 24032302-06A
Site: Final Effluent RC **Collection Date:** 3/22/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	2.0 mg/L	0.5	tcessac	3/23/2024

Client Sample ID: **Lab Sample ID:** 24032402-06
Site: Final Effluent RC **Collection Date:** 3/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.8 mg/L	2	tcessac	3/24/2024
CBOD	SM 5210B	3.90 mg/L	2	tcessac	3/29/2024

Client Sample ID: **Lab Sample ID:** 24032402-06A
Site: Final Effluent RC **Collection Date:** 3/23/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	tcessac	3/24/2024

Client Sample ID: **Lab Sample ID:** 24032502-06

Site: Final Effluent RC **Collection Date:** 3/24/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.9	mg/L	2	tcessac	4/1/2024
CBOD	SM 5210B	3.70	mg/L	2	tcessac	3/30/2024

Client Sample ID: **Lab Sample ID:** 24032502-06A

Site: Final Effluent RC **Collection Date:** 3/24/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5	mg/L	0.5	jmonk	3/25/2024

Client Sample ID: **Lab Sample ID:** 24032502-14

Site: Final Effluent RC outfall **Collection Date:** 3/25/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	5.0	MPN/100ml		Jmonk	3/26/2024

Client Sample ID: **Lab Sample ID:** 24032602-06

Site: Final Effluent RC **Collection Date:** 3/25/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.0	mg/L	2	tcessac	3/26/2024
CBOD	SM 5210B	3.70	mg/L	2	tcessac	3/31/2024

Client Sample ID: **Lab Sample ID:** 24032602-06A

Site: Final Effluent RC **Collection Date:** 3/25/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.8	mg/L	0.5	jmonk	3/26/2024

Client Sample ID: **Lab Sample ID:** 24032602-13

Site: Final Effluent RC outfall **Collection Date:** 3/26/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	16	MPN/100ml		nwafer	3/27/2024

Client Sample ID: **Lab Sample ID:** 24032702-06

Site: Final Effluent RC **Collection Date:** 3/26/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	3.3	mg/L	2	tcessac	3/27/2024
CBOD	SM 5210B	3.20	mg/L	2	tcessac	4/1/2024

Client Sample ID: **Lab Sample ID:** 24032702-06A

Site: Final Effluent RC **Collection Date:** 3/26/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jagriffin	4/9/2024

Client Sample ID: **Lab Sample ID:** 24032702-14

Site: Final Effluent RC outfall **Collection Date:** 3/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	3.0 MPN/100ml		nwafer	3/28/2024

Client Sample ID: **Lab Sample ID:** 24032802-06

Site: Final Effluent RC **Collection Date:** 3/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.4 mg/L	2	tcessac	3/28/2024
CBOD	SM 5210B	3.30 mg/L	2	tcessac	4/2/2024

Client Sample ID: **Lab Sample ID:** 24032802-06A

Site: Final Effluent RC **Collection Date:** 3/27/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	1.3 mg/L	0.5	jmonk	3/28/2024

Client Sample ID: **Lab Sample ID:** 24032802-13

Site: Final Effluent RC outfall **Collection Date:** 3/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	4.0 MPN/100ml		nwafer	3/29/2024

Client Sample ID: **Lab Sample ID:** 24032902-06

Site: Final Effluent RC **Collection Date:** 3/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.4 mg/L	2	tcessac	3/29/2024
CBOD	SM 5210B	3.90 mg/L	2	tcessac	4/3/2024

Client Sample ID: **Lab Sample ID:** 24032902-06A

Site: Final Effluent RC **Collection Date:** 3/28/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jmonk	3/29/2024

Client Sample ID: **Lab Sample ID:** 24032902-14

Site: Final Effluent RC outfall **Collection Date:** 3/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ecoli	Colilert-18	11 MPN/100ml		Jmonk	3/30/2024

Client Sample ID: **Lab Sample ID:** 24033002-06

Site: Final Effluent RC **Collection Date:** 3/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	2.0 mg/L	2	Jmonk	3/30/2024
CBOD	SM 5210B	3.80 mg/L	2	tcessac	4/4/2024

Client Sample ID: **Lab Sample ID:** 24033002-06A

Site: Final Effluent RC **Collection Date:** 3/29/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	<0.5 mg/L	0.5	jmonk	3/30/2024

Client Sample ID: **Lab Sample ID:** 24033102-06

Site: Final Effluent RC **Collection Date:** 3/30/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Suspended Solids	2540-D	4.2 mg/L	2	Jmonk	3/31/2024
CBOD	SM 5210B	4.50 mg/L	2	tcessac	4/5/2024

Client Sample ID: **Lab Sample ID:** 24033102-06A

Site: Final Effluent RC **Collection Date:** 3/30/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Ammonia Nitrogen	SM 4500NH3-G	0.5 mg/L	0.5	jmonk	3/31/2024

NA = not analyzed

GARLAND WATER UTILITIES LABORATORY

Report of Analysis

For: **City of Garland- Rowlett Creek Wastewater Facility**
2500 E. Centerville Rd
Garland, TX 75040

Attn:

RC Tuesday

Project Manager: _____ 24-Apr-24

Lab Manager

Client Sample ID: **Lab Sample ID:** 23041102-01
Site: Raw Influent RC **Collection Date:** 4/10/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.0 mg/L	0.25	Jmonk	4/11/2023

Client Sample ID: **Lab Sample ID:** 23041102-06
Site: Final Effluent RC **Collection Date:** 4/10/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.4 mg/L	0.25	Jmonk	4/11/2023

Client Sample ID: **Lab Sample ID:** 23041202-01
Site: Raw Influent RC **Collection Date:** 4/11/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.4 mg/L	0.25	Jmonk	4/12/2023

Client Sample ID: **Lab Sample ID:** 23041202-06
Site: Final Effluent RC **Collection Date:** 4/11/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.5 mg/L	0.25	Jmonk	4/12/2023

Client Sample ID: **Lab Sample ID:** 23042602-01
Site: Raw Influent RC **Collection Date:** 4/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.8 mg/L	0.25	Jmonk	4/26/2023

Client Sample ID: **Lab Sample ID:** 23042602-06
Site: Final Effluent RC **Collection Date:** 4/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.0 mg/L	0.25	Jmonk	4/26/2023

Client Sample ID: **Lab Sample ID:** 23042802-01
Site: Raw Influent RC **Collection Date:** 4/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.0 mg/L	0.25	Jmonk	4/28/2023

Client Sample ID: **Lab Sample ID:** 23042802-06
Site: Final Effluent RC **Collection Date:** 4/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.8 mg/L	0.25	Jmonk	4/28/2023

Client Sample ID: **Lab Sample ID:** 23051102-01
Site: Raw Influent RC **Collection Date:** 5/10/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.4 mg/L	0.25	Jmonk	5/11/2023

Client Sample ID: **Lab Sample ID:** 23051102-06
Site: Final Effluent RC **Collection Date:** 5/10/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.9 mg/L	0.25	Jmonk	5/11/2023

Client Sample ID: **Lab Sample ID:** 23051902-01
Site: Raw Influent RC **Collection Date:** 5/18/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	NA	0.25		5/19/2023

Client Sample ID: **Lab Sample ID:** 23051902-06
Site: Final Effluent RC **Collection Date:** 5/18/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.2 mg/L	0.25	Jmonk	5/19/2023

Client Sample ID: **Lab Sample ID:** 23052302-01
Site: Raw Influent RC **Collection Date:** 5/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.1 mg/L	0.25	Jmonk	5/23/2023

Client Sample ID: **Lab Sample ID:** 23052302-06
Site: Final Effluent RC **Collection Date:** 5/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.5 mg/L	0.25	Jmonk	5/23/2023

Client Sample ID: **Lab Sample ID:** 23060202-01
Site: Raw Influent RC **Collection Date:** 6/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.2 mg/L	0.25	Jmonk	6/2/2023

Client Sample ID: **Lab Sample ID:** 23060202-06
Site: Final Effluent RC **Collection Date:** 6/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.6 mg/L	0.25	Jmonk	6/2/2023

Client Sample ID: **Lab Sample ID:** 23062802-01
Site: Raw Influent RC **Collection Date:** 6/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.0 mg/L	0.25	Jmonk	6/28/2023

Client Sample ID: **Lab Sample ID:** 23062802-06
Site: Final Effluent RC **Collection Date:** 6/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.4 mg/L	0.25	Jmonk	6/28/2023

Client Sample ID: **Lab Sample ID:** 23071702-01
Site: Raw Influent RC **Collection Date:** 7/16/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.2 mg/L	0.25	jhensley	7/17/2023

Client Sample ID: **Lab Sample ID:** 23071702-06
Site: Final Effluent RC **Collection Date:** 7/16/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.1 mg/L	0.25	jhensley	7/17/2023

Client Sample ID: **Lab Sample ID:** 23072402-01
Site: Raw Influent RC **Collection Date:** 7/23/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.2 mg/L	0.25	Jmonk	7/24/2023

Client Sample ID: **Lab Sample ID:** 23072402-06
Site: Final Effluent RC **Collection Date:** 7/23/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.9 mg/L	0.25	Jmonk	7/24/2023

Client Sample ID: **Lab Sample ID:** 23080902-01
Site: Raw Influent RC **Collection Date:** 8/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	7.3 mg/L	0.25	Jmonk	8/9/2023

Client Sample ID: **Lab Sample ID:** 23080902-06
Site: Final Effluent RC **Collection Date:** 8/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.3 mg/L	0.25	Jmonk	8/9/2023

Client Sample ID: **Lab Sample ID:** 23082102-01
Site: Raw Influent RC **Collection Date:** 8/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	7.4 mg/L	0.25	Jmonk	8/21/2023

Client Sample ID: **Lab Sample ID:** 23082102-06
Site: Final Effluent RC **Collection Date:** 8/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.9 mg/L	0.25	Jmonk	8/21/2023

Client Sample ID: **Lab Sample ID:** 23082302-01
Site: Raw Influent RC **Collection Date:** 8/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.1 mg/L	0.25	Jmonk	8/23/2023

Client Sample ID: **Lab Sample ID:** 23082302-06
Site: Final Effluent RC **Collection Date:** 8/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.6 mg/L	0.25	Jmonk	8/23/2023

Client Sample ID: **Lab Sample ID:** 23083002-01
Site: Raw Influent RC **Collection Date:** 8/29/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.2 mg/L	0.25	Jmonk	8/30/2023

Client Sample ID: **Lab Sample ID:** 23083002-06
Site: Final Effluent RC **Collection Date:** 8/29/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.5 mg/L	0.25	Jmonk	8/30/2023

Client Sample ID: **Lab Sample ID:** 23090702-01
Site: Raw Influent RC **Collection Date:** 9/6/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.1 mg/L	0.25	Jmonk	9/7/2023

Client Sample ID: **Lab Sample ID:** 23090702-06
Site: Final Effluent RC **Collection Date:** 9/6/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.2 mg/L	0.25	Jmonk	9/7/2023

Client Sample ID: **Lab Sample ID:** 23092102-01
Site: Raw Influent RC **Collection Date:** 9/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.5 mg/L	0.25	Jmonk	9/21/2023

Client Sample ID: **Lab Sample ID:** 23092102-06
Site: Final Effluent RC **Collection Date:** 9/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.0 mg/L	0.25	Jmonk	9/21/2023

Client Sample ID: **Lab Sample ID:** 23100402-01
Site: Raw Influent RC **Collection Date:** 10/3/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.9 mg/L	0.25	jhensley	10/4/2023

Client Sample ID: **Lab Sample ID:** 23100402-06
Site: Final Effluent RC **Collection Date:** 10/3/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.2 mg/L	0.25	jhensley	10/4/2023

Client Sample ID: **Lab Sample ID:** 23100902-01
Site: Raw Influent RC **Collection Date:** 10/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.3 mg/L	0.25	Jmonk	10/9/2023

Client Sample ID: **Lab Sample ID:** 23100902-06
Site: Final Effluent RC **Collection Date:** 10/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.4 mg/L	0.25	Jmonk	10/9/2023

Client Sample ID: **Lab Sample ID:** 23101602-01
Site: Raw Influent RC **Collection Date:** 10/15/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.6 mg/L	0.25	Jmonk	10/16/2023

Client Sample ID: **Lab Sample ID:** 23101602-06
Site: Final Effluent RC **Collection Date:** 10/15/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.9 mg/L	0.25	Jmonk	10/16/2023

Client Sample ID: **Lab Sample ID:** 23102702-01
Site: Raw Influent RC **Collection Date:** 10/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.4 mg/L	0.25	jhensley	10/27/2023

Client Sample ID: **Lab Sample ID:** 23102702-06
Site: Final Effluent RC **Collection Date:** 10/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.0 mg/L	0.25	jhensley	10/27/2023

Client Sample ID: **Lab Sample ID:** 23110202-01
Site: Raw Influent RC **Collection Date:** 11/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.1 mg/L	0.25	Jmonk	11/2/2023

Client Sample ID: **Lab Sample ID:** 23110202-06
Site: Final Effluent RC **Collection Date:** 11/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	2.4 mg/L	0.25	Jmonk	11/2/2023

Client Sample ID: **Lab Sample ID:** 23110602-01
Site: Raw Influent RC **Collection Date:** 11/5/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.3 mg/L	0.25	jmonk	11/6/2023

Client Sample ID: **Lab Sample ID:** 23110602-06
Site: Final Effluent RC **Collection Date:** 11/5/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.6 mg/L	0.25	jmonk	11/6/2023

Client Sample ID: **Lab Sample ID:** 23111402-01
Site: Raw Influent RC **Collection Date:** 11/13/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.3 mg/L	0.25	jmonk	11/14/2023

Client Sample ID: **Lab Sample ID:** 23111402-06
Site: Final Effluent RC **Collection Date:** 11/13/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.0 mg/L	0.25	jmonk	11/14/2023

Client Sample ID: **Lab Sample ID:** 23111602-01
Site: Raw Influent RC **Collection Date:** 11/15/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.6 mg/L	0.25	jmonk	11/16/2023

Client Sample ID: **Lab Sample ID:** 23111602-06
Site: Final Effluent RC **Collection Date:** 11/15/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.1 mg/L	0.25	jmonk	11/16/2023

Client Sample ID: **Lab Sample ID:** 23112702-01
Site: Raw Influent RC **Collection Date:** 11/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.0 mg/L	0.25	jmonk	11/27/2023

Client Sample ID: **Lab Sample ID:** 23112702-06
Site: Final Effluent RC **Collection Date:** 11/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.0 mg/L	0.25	jmonk	11/27/2023

Client Sample ID: **Lab Sample ID:** 23113002-01
Site: Raw Influent RC **Collection Date:** 11/29/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.5 mg/L	0.25	jmonk	11/30/2023

Client Sample ID: **Lab Sample ID:** 23113002-06
Site: Final Effluent RC **Collection Date:** 11/29/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.5 mg/L	0.25	jmonk	11/30/2023

Client Sample ID: **Lab Sample ID:** 23120802-01
Site: Raw Influent RC **Collection Date:** 12/7/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.6 mg/L	0.25	jmonk	12/8/2023

Client Sample ID: **Lab Sample ID:** 23120802-06
Site: Final Effluent RC **Collection Date:** 12/7/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.6 mg/L	0.25	jmonk	12/8/2023

Client Sample ID: **Lab Sample ID:** 23122902-01
Site: Raw Influent RC **Collection Date:** 12/28/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.3 mg/L	0.25	jhensley	12/29/2023

Client Sample ID: **Lab Sample ID:** 23122902-06
Site: Final Effluent RC **Collection Date:** 12/28/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	2.7 mg/L	0.25	jhensley	12/29/2023

Client Sample ID: **Lab Sample ID:** 24010802-01
Site: Raw Influent RC **Collection Date:** 1/7/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	5.2 mg/L	0.25	jmonk	1/8/2024

Client Sample ID: **Lab Sample ID:** 24010802-06
Site: Final Effluent RC **Collection Date:** 1/7/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.4 mg/L	0.25	jmonk	1/8/2024

Client Sample ID: **Lab Sample ID:** 24012602-01
Site: Raw Influent RC **Collection Date:** 1/25/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.9 mg/L	0.25	jmonk	1/26/2024

Client Sample ID: **Lab Sample ID:** 24012602-06
Site: Final Effluent RC **Collection Date:** 1/25/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	1.7 mg/L	0.25	jmonk	1/26/2024

Client Sample ID: **Lab Sample ID:** 24020102-01
Site: Raw Influent RC **Collection Date:** 1/31/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	7.1 mg/L	0.25	jmonk	2/1/2024

Client Sample ID: **Lab Sample ID:** 24020102-06
Site: Final Effluent RC **Collection Date:** 1/31/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	2.7 mg/L	0.25	jmonk	2/1/2024

Client Sample ID: **Lab Sample ID:** 24020902-01
Site: Raw Influent RC **Collection Date:** 2/8/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	6.0 mg/L	0.25	Jmonk	2/9/2024

Client Sample ID: **Lab Sample ID:** 24020902-06
Site: Final Effluent RC **Collection Date:** 2/8/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.0 mg/L	0.25	Jmonk	2/9/2024

Client Sample ID: **Lab Sample ID:** 24030402-01
Site: Raw Influent RC **Collection Date:** 3/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	7.4 mg/L	0.25	jmonk	3/4/2024

Client Sample ID: **Lab Sample ID:** 24030402-06
Site: Final Effluent RC **Collection Date:** 3/3/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.5 mg/L	0.25	jmonk	3/4/2024

Client Sample ID: **Lab Sample ID:** 24040202-01
Site: Raw Influent RC **Collection Date:** 4/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	4.9 mg/L	0.25	jmonk	4/2/2024

Client Sample ID: **Lab Sample ID:** 24040202-06
Site: Final Effluent RC **Collection Date:** 4/1/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	3.1 mg/L	0.25	jmonk	4/2/2024

Client Sample ID: **Lab Sample ID:** 24041202-01

Site: Raw Influent RC **Collection Date:** 4/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	1.8 mg/L	0.25	jmonk	4/12/2024

Client Sample ID: **Lab Sample ID:** 24041202-06

Site: Final Effluent RC **Collection Date:** 4/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Total Phosphorus	SM 4500-P-H	1.2 mg/L	0.25	jmonk	4/12/2024

NA = not analyzed

2500 E. Centerville Road
Garland, TX 75040
972-205-4012

GARLAND WATER UTILITIES LABORATORY

Report of Analysis

For: City of Garland- Rowlett Creek Wastewater Facility
2500 E. Centerville Rd
Garland, TX 75040

Attn:

RC Monday

Project Manager: _____ 23-Apr-24

Lab Manager

Client Sample ID: **Lab Sample ID:** 23040302-06
Site: Final Effluent RC **Collection Date:** 4/2/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	100.00 mg/L	20	jhensley	4/3/2023

Client Sample ID: **Lab Sample ID:** 23041902-06
Site: Final Effluent RC **Collection Date:** 4/18/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	90.00 mg/L	20	jhensley	4/19/2023

Client Sample ID: **Lab Sample ID:** 23042102-06
Site: Final Effluent RC **Collection Date:** 4/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	90.00 mg/L	20	jhensley	4/21/2023

Client Sample ID: **Lab Sample ID:** 23042602-06
Site: Final Effluent RC **Collection Date:** 4/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	100.00 mg/L	20	jhensley	4/26/2023

Client Sample ID: **Lab Sample ID:** 23050302-06
Site: Final Effluent RC **Collection Date:** 5/2/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	105.00 mg/L	20	jhensley	5/3/2023

Client Sample ID: **Lab Sample ID:** 23050802-06
Site: Final Effluent RC **Collection Date:** 5/7/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	100.00 mg/L	20	jhensley	5/8/2023

Client Sample ID: **Lab Sample ID:** 23051202-06
Site: Final Effluent RC **Collection Date:** 5/11/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	80.00 mg/L	20	jhensley	5/12/2023

Client Sample ID: **Lab Sample ID:** 23051702-06
Site: Final Effluent RC **Collection Date:** 5/16/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	100.00 mg/L	20	jhensley	5/17/2023

Client Sample ID: **Lab Sample ID:** 23052202-06
Site: Final Effluent RC **Collection Date:** 5/21/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	5/22/2023

Client Sample ID: **Lab Sample ID:** 23053102-06
Site: Final Effluent RC **Collection Date:** 5/30/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	5/31/2023

Client Sample ID: **Lab Sample ID:** 23060202-06
Site: Final Effluent RC **Collection Date:** 6/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	6/2/2023

Client Sample ID: **Lab Sample ID:** 23060702-06
Site: Final Effluent RC **Collection Date:** 6/6/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	55.00 mg/L	20	jhensley	6/7/2023

Client Sample ID: **Lab Sample ID:** 23061302-06
Site: Final Effluent RC **Collection Date:** 6/12/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	85.00 mg/L	20	jhensley	6/13/2023

Client Sample ID: **Lab Sample ID:** 23061502-06
Site: Final Effluent RC **Collection Date:** 6/14/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	6/15/2023

Client Sample ID: **Lab Sample ID:** 23062102-06
Site: Final Effluent RC **Collection Date:** 6/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	80.00 mg/L	20	jhensley	6/21/2023

Client Sample ID: **Lab Sample ID:** 23062602-06
Site: Final Effluent RC **Collection Date:** 6/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	75.00 mg/L	20	jhensley	6/26/2023

Client Sample ID: **Lab Sample ID:** 23063002-06
Site: Final Effluent RC **Collection Date:** 6/29/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	80.00 mg/L	20	jhensley	6/30/2023

Client Sample ID: **Lab Sample ID:** 23070702-06
Site: Final Effluent RC **Collection Date:** 7/6/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	50.00 mg/L	20	jhensley	7/7/2023

Client Sample ID: **Lab Sample ID:** 23071002-06
Site: Final Effluent RC **Collection Date:** 7/9/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	45.00 mg/L	20	jhensley	7/10/2023

Client Sample ID: **Lab Sample ID:** 23071402-06
Site: Final Effluent RC **Collection Date:** 7/13/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	7/14/2023

Client Sample ID: **Lab Sample ID:** 23072102-06
Site: Final Effluent RC **Collection Date:** 7/20/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	7/21/2023

Client Sample ID: **Lab Sample ID:** 23073102-06
Site: Final Effluent RC **Collection Date:** 7/30/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	7/31/2023

Client Sample ID: **Lab Sample ID:** 23080202-06
Site: Final Effluent RC **Collection Date:** 8/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	8/2/2023

Client Sample ID: **Lab Sample ID:** 23080702-06
Site: Final Effluent RC **Collection Date:** 8/6/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	8/7/2023

Client Sample ID: **Lab Sample ID:** 23080902-06
Site: Final Effluent RC **Collection Date:** 8/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	35.00 mg/L	20	jhensley	8/9/2023

Client Sample ID: **Lab Sample ID:** 23081402-06
Site: Final Effluent RC **Collection Date:** 8/13/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	30.00 mg/L	20	jhensley	8/14/2023

Client Sample ID: **Lab Sample ID:** 23082302-06
Site: Final Effluent RC **Collection Date:** 8/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	8/23/2023

Client Sample ID: **Lab Sample ID:** 23082802-06
Site: Final Effluent RC **Collection Date:** 8/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	8/28/2023

Client Sample ID: **Lab Sample ID:** 23090602-06
Site: Final Effluent RC **Collection Date:** 9/5/2023 10:00 PM

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	9/6/2023

Client Sample ID: **Lab Sample ID:** 23091302-06
Site: Final Effluent RC **Collection Date:** 9/12/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	30.00 mg/L	20	jhensley	9/13/2023

Client Sample ID: **Lab Sample ID:** 23091802-06
Site: Final Effluent RC **Collection Date:** 9/17/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	9/18/2023

Client Sample ID: **Lab Sample ID:** 23092202-06
Site: Final Effluent RC **Collection Date:** 9/21/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	9/22/2023

Client Sample ID: **Lab Sample ID:** 23092502-06
Site: Final Effluent RC **Collection Date:** 9/24/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	30.00 mg/L	20	jhensley	9/25/2023

Client Sample ID: **Lab Sample ID:** 23092602-06
Site: Final Effluent RC **Collection Date:** 9/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	9/26/2023

Client Sample ID: **Lab Sample ID:** 23092702-06
Site: Final Effluent RC **Collection Date:** 9/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	9/27/2023

Client Sample ID: **Lab Sample ID:** 23092802-06
Site: Final Effluent RC **Collection Date:** 9/27/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	9/28/2023

Client Sample ID: **Lab Sample ID:** 23100202-06
Site: Final Effluent RC **Collection Date:** 10/1/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	10/2/2023

Client Sample ID: **Lab Sample ID:** 23100402-06
Site: Final Effluent RC **Collection Date:** 10/3/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	<20 mg/L	20	jhensley	10/4/2023

Client Sample ID: **Lab Sample ID:** 23100602-06
Site: Final Effluent RC **Collection Date:** 10/5/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	50.00 mg/L	20	jhensley	10/6/2023

Client Sample ID: **Lab Sample ID:** 23100902-06
Site: Final Effluent RC **Collection Date:** 10/8/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	10/9/2023

Client Sample ID: **Lab Sample ID:** 23102302-06
Site: Final Effluent RC **Collection Date:** 10/22/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	35.00 mg/L	20	jhensley	10/23/2023

Client Sample ID: **Lab Sample ID:** 23102602-06
Site: Final Effluent RC **Collection Date:** 10/25/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	50.00 mg/L	20	jhensley	10/26/2023

Client Sample ID: **Lab Sample ID:** 23110102-06
Site: Final Effluent RC **Collection Date:** 10/31/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	260.00 mg/L	20	jhensley	11/1/2023

Client Sample ID: **Lab Sample ID:** 23110602-06
Site: Final Effluent RC **Collection Date:** 11/5/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	11/8/2023

Client Sample ID: **Lab Sample ID:** 23111502-06
Site: Final Effluent RC **Collection Date:** 11/14/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	11/15/2023

Client Sample ID: **Lab Sample ID:** 23112702-06
Site: Final Effluent RC **Collection Date:** 11/26/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	11/27/2023

Client Sample ID: **Lab Sample ID:** 23112902-06
Site: Final Effluent RC **Collection Date:** 11/28/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	35.00 mg/L	20	jhensley	11/29/2023

Client Sample ID: **Lab Sample ID:** 23120602-06
Site: Final Effluent RC **Collection Date:** 12/5/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	12/6/2023

Client Sample ID: **Lab Sample ID:** 23121102-06
Site: Final Effluent RC **Collection Date:** 12/10/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	12/11/2023

Client Sample ID: **Lab Sample ID:** 23121402-06
Site: Final Effluent RC **Collection Date:** 12/13/2023

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	40.00 mg/L	20	jhensley	12/14/2023

Client Sample ID: **Lab Sample ID:** 24010302-06
Site: Final Effluent RC **Collection Date:** 1/2/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	60.00 mg/L	20	jhensley	1/3/2024

Client Sample ID: **Lab Sample ID:** 24011002-06
Site: Final Effluent RC **Collection Date:** 1/9/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	75.00 mg/L	20	jhensley	1/10/2024

Client Sample ID: **Lab Sample ID:** 24011202-06
Site: Final Effluent RC **Collection Date:** 1/11/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00 mg/L	20	jhensley	1/12/2024

Client Sample ID: **Lab Sample ID:** 24011702-06
Site: Final Effluent RC **Collection Date:** 1/16/2024

Analyte	Method	Sample Result	Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	60.00 mg/L	20	jhensley	1/17/2024

Client Sample ID: **Lab Sample ID:** 24011902-06

Site: Final Effluent RC **Collection Date:** 1/18/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	70.00	mg/L	20	jhensley	1/19/2024

Client Sample ID: **Lab Sample ID:** 24012202-06

Site: Final Effluent RC **Collection Date:** 1/21/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	55.00	mg/L	20	jhensley	1/22/2024

Client Sample ID: **Lab Sample ID:** 24012402-06

Site: Final Effluent RC **Collection Date:** 1/23/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	85.00	mg/L	20	jhensley	1/24/2024

Client Sample ID: **Lab Sample ID:** 24021302-06

Site: Final Effluent RC **Collection Date:** 2/12/2024

Analyte	Method	Sample Result		Specificatior	Analyst	Anal. Date
Alkalinity	EPA 310.1	175.00	mg/L	20	jhensley	2/13/2024

NA = not analyzed

ATTACHMENT TR-1-0-8

Facility Operators

Technical Report 1.0 Section 8

GARLAND

Re: Rowlett Creek WWTP License Operators

	Name	WW License	License Number	Expiration
1.	Malcolm Parker	A	WW0030513	03/01/2027
2.	Paul Carlisle	A	WW0037660	09/30/2026
3.	Jeff Williams	A	WW0029561	11/28/2026
4.	Bobby Weeks	A	WW0038289	07/01/2024
5.	Eric Milam	A	WW0069605	06/22/2025
6.	Roy Phillips III	A	WW0071133	09/05/2026
7.	Roy Phillips, Jr	B	WW0011622	09/18/2026
8.	Travis Saulters	B	WW0045910	09/26/2024
9.	Jeremy Hayes	B	WW0052969	05/22/2027
10.	Ricky Munoz	B	WW0048419	03/04/2025
11.	Charles Wilson	B	WW0053577	06/09/2024
12.	Randall Cyrus	B	WW0057281	01/30/2026
13.	Greg McGuire	B	WW0062089	10/18/2025
14.	Oscar Torres	B	WW0066011	11/12/2026
15.	Myontae Sheppard	B	WW0071576	12/21/2025
16.	Josh Zermeno	B	WW0068771	12/03/2024
17.	Ronald Dalgleish	B	WW0067331	07/13/2024
18.	Trent Dean	D	WW0074783	03/19/2027

Revised: April 16, 2024

ATTACHMENT WS-4-0-1

Pollutant Analysis Test Results

Worksheet 4.0 & Technical Report 1.0 Section 7

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Madison Talmage
City of Garland
2500 E. Centerville
Garland, Texas 75040

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JOB DESCRIPTION

Rowlett Creek WWTP (RCF)
RCF-041624

JOB NUMBER

870-26179-1

Eurofins Dallas
9701 Harry Hines Blvd
Dallas TX 75220

See page two for job notes and contact information.

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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Authorized for release by
Mike Kimmel, Project Manager
Mike.Kimmel@et.eurofinsus.com
(214)902-0300

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Client Sample Results 8
Surrogate Summary 13
QC Sample Results 15
QC Association Summary 35
Lab Chronicle 39
Certification Summary 41
Method Summary 42
Sample Summary 43
Subcontract Data 44
Chain of Custody 55
Receipt Checklists 58

Definitions/Glossary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
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, high biased.
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
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.

Metals

Qualifier	Qualifier Description
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
F1	MS and/or MSD recovery exceeds control limits.
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.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job Narrative
870-26179-1

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 samples were received on 4/16/2024 2:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

Subcontract Work
Method General Subcontract Method: This method was subcontracted to Ana-Lab Corporation. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
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: During the extraction process, heavy emulsion occurred. Sample was filtered through sodium sulfate to remove emulsion.

Method 625.1: The laboratory control sample (LCS) for preparation batch 860-155149 and analytical batch 860-155462 recovered outside control limits for the following analyte: Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for this analyte. These results have been reported and qualified.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-155149 and analytical batch 860-155462 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Chloronaphthalene, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl phenyl ether, Fluorene and Hexachlorocyclopentadiene .

Method 625.1: During the extraction process, heavy emulsion occurred. Sample was filtered through sodium sulfate to remove emulsion.

Method 625.1: The laboratory control sample (LCS) for preparation batch 860-155149 and analytical batch 860-155462 recovered outside control limits for the following analytes: 1,3-Dichlorobenzene and Hexachloroethane. The associated sample was re-prepared and/or re-analyzed outside holding time. Both sets of data have reported.

Method 625.1: The following sample was re-prepared and re-analyzed outside of preparation holding time due to initial analysis LCS/LCSD recoveries outside control limits (low biased).: RCF-041624-01 (870-26179-1).

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-155949 and analytical batch 860-155987 recovered outside control limits for the following analyte: Pyridine.

Method 625.1: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-155949 and analytical batch 860-155987 recovered outside control limits for the following analytes: 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 3,3'-Dichlorobenzidine, Benzidine and Hexachloroethane. The associated sample was re-prepared and/or re-analyzed outside holding time. Both sets of data have reported.

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

Job ID: 870-26179-1 (Continued) Eurofins Dallas

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

PCBs
Method 608.3_PCB: The surrogate recovery for the blank associated with preparation batch 860-155305 and analytical batch 860-155449 was outside the upper control limits.

(MB 860-155305/1-A)

Method 608.3_PCB: The surrogate recovery for the laboratory control sample (LCS) associated with preparation batch 860-155305 and analytical batch 860-155449 was outside the upper control limits.

(LCS 860-155305/4-A)

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 860-155305 and analytical batch 860-156479 recovered outside control limits for the following analytes: Endrin. These analytes were biased high in the LCSD 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 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-155066 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been reported.

Method 300_ORGFMS: The following sample was diluted to bring the concentration of target analytes within the calibration range: RCF-041624-01 (870-26179-1). Elevated reporting limits (RLs) are provided.

Method 300_ORGFMS: The instrument blank/CCB for analytical batch 860-155067 contained Nitrate as N greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

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

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

General Chemistry
Method 420.4_NP: The instrument/CCB blank for analytical batch 860-159119 contained Phenols, Total greater than the reporting limit (RL), and were not reanalyzed because none of the samples associated with this instrument blank/CCB contained the target compound. The data have been reported.

Method Kelada_01: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-158051 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method Kelada_01: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. RCF-041624-02 (870-26179-8)

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

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Client Sample ID: RCF-041624-01

Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-1

Matrix: Water

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	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Acenaphthene	<5.70	U	5.70		ug/L		04/17/24 15:54	04/19/24 02:07	1
Acenaphthylene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Anthracene	<5.70	U	5.70		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzidine	<20.0	U *- *1	20.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzo[a]anthracene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzo[a]pyrene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzo[b]fluoranthene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzo[g,h,i]perylene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Benzo[k]fluoranthene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Butyl benzyl phthalate	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Bis(2-chloroethyl)ether	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,4,5-Trichlorophenol	<0.0100	U	0.0100		mg/L		04/17/24 15:54	04/19/24 02:07	1
Bis(2-chloroethoxy)methane	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Bis(2-ethylhexyl) phthalate	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
4-Chlorophenyl phenyl ether	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
4-Bromophenyl phenyl ether	<5.00	U *1	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
2-Chloronaphthalene	<5.00	U *1	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Chrysene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Dibenz(a,h)anthracene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Diethyl phthalate	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Dimethyl phthalate	<2.50	U	2.50		ug/L		04/17/24 15:54	04/19/24 02:07	1
Di-n-butyl phthalate	**10.9**		5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
1,2-Dichlorobenzene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
1,3-Dichlorobenzene	<10.0	U *-	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
1,4-Dichlorobenzene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
2-Methylphenol	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
3 & 4 Methylphenol	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
3,3'-Dichlorobenzidine	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,4-Dinitrotoluene	<10.0	U *1	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,6-Dinitrotoluene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Fluoranthene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Fluorene	<5.00	U *1	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Hexachlorobenzene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Hexachlorobutadiene	<1.00	U	1.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Hexachlorocyclopentadiene	<10.0	U *1	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Hexachloroethane	<4.80	U *-	4.80		ug/L		04/17/24 15:54	04/19/24 02:07	1
Indeno[1,2,3-cd]pyrene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Isophorone	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Naphthalene	<2.50	U	2.50		ug/L		04/17/24 15:54	04/19/24 02:07	1
Nitrobenzene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
N-Nitrosodimethylamine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Phenanthrene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Pyrene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
1,2,4-Trichlorobenzene	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
2-Chlorophenol	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
4-Chloro-3-methylphenol	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,4-Dichlorophenol	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,4-Dimethylphenol	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1

Client Sample ID: RCF-041624-01

Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-1

Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<10.0	U *1	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
2-Nitrophenol	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
4-Nitrophenol	<7.20	U	7.20		ug/L		04/17/24 15:54	04/19/24 02:07	1
Pentachlorophenol	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Phenol	<4.50	U	4.50		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,4,6-Trichlorophenol	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
Di-n-octyl phthalate	<5.00	U	5.00		ug/L		04/17/24 15:54	04/19/24 02:07	1
N-Nitrosodi-n-propylamine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
N-Nitrosodiphenylamine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
2,2'-oxybis[1-chloropropane]	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Hexachlorophene	<100	U	100		ug/L		04/17/24 15:54	04/19/24 02:07	1
4,6-Dinitro-2-methylphenol	<10.0	U *1	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
1,2-Diphenylhydrazine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
N-Nitrosodi-n-butylamine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
N-Nitrosodiethylamine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Nonylphenol	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Pentachlorobenzene	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Pyridine	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1
Total Cresols	<10.0	U	10.0		ug/L		04/17/24 15:54	04/19/24 02:07	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
2,3,7,8-TCDD TIC	*<10.0*	*U*	*ug/L*		*9.34*	*1746-01-6*	*04/17/24 15:54*	*04/19/24 02:07*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*31 - 132*	*04/17/24 15:54*	*04/19/24 02:07*	*1*
2-Fluorobiphenyl (Surr)	*75*		*29 - 112*	*04/17/24 15:54*	*04/19/24 02:07*	*1*
2-Fluorophenol (Surr)	*36*		*28 - 114*	*04/17/24 15:54*	*04/19/24 02:07*	*1*
Nitrobenzene-d5 (Surr)	*83*		*15 - 314*	*04/17/24 15:54*	*04/19/24 02:07*	*1*
p-Terphenyl-d14 (Surr)	*83*		*20 - 141*	*04/17/24 15:54*	*04/19/24 02:07*	*1*
Phenol-d5 (Surr)	*23*		*8 - 424*	*04/17/24 15:54*	*04/19/24 02:07*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
alpha-BHC	<0.00900	U	0.00900		ug/L		04/17/24 13:51	04/24/24 17:28	1
beta-BHC	<0.0180	U	0.0180		ug/L		04/17/24 13:51	04/24/24 17:28	1
delta-BHC	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
gamma-BHC (Lindane)	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
4,4'-DDD	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
4,4'-DDE	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
4,4'-DDT	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 17:28	1
Dieldrin	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Endosulfan I	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Endosulfan II	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Endosulfan sulfate	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Endrin	<0.0100	U *+	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Endrin aldehyde	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Dicofol	<0.100	U	0.100		ug/L		04/17/24 13:51	04/24/24 17:28	1
Heptachlor	<0.00900	U	0.00900		ug/L		04/17/24 13:51	04/24/24 17:28	1
Heptachlor epoxide	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 17:28	1

Client Sample ID: RCF-041624-01

Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-1

Matrix: Water

Method: EPA 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	<0.0600	U	0.0600		ug/L		04/17/24 13:51	04/24/24 17:28	1
Chlordane	<0.0400	U	0.0400		ug/L		04/17/24 13:51	04/24/24 17:28	1
Methoxychlor	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 17:28	1
Mirex	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*	*p*	*15 - 136*	*04/17/24 13:51*	*04/24/24 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*58*	*p*	*18 - 126*	*04/17/24 13:51*	*04/24/24 17:28*	*1*

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1242	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1254	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1221	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1232	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1248	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
PCB-1260	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1
Polychlorinated biphenyls, Total	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*67*		*18 - 126*	*04/17/24 13:51*	*04/18/24 14:40*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*15 - 136*	*04/17/24 13:51*	*04/18/24 14:40*	*1*

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.000193	U	0.000193		mg/L		04/17/24 07:00	04/20/24 12:24	1
Hexachlorophene	<0.00482	U	0.00482		mg/L		04/17/24 07:00	04/20/24 12:24	1
Silvex (2,4,5-TP)	<0.000193	U	0.000193		mg/L		04/17/24 07:00	04/20/24 12:24	1
Pentachlorophenol	<0.000193	U	0.000193		mg/L		04/17/24 07:00	04/20/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*149*		*45 - 150*	*04/17/24 07:00*	*04/20/24 12:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104000**		500		ug/L			04/17/24 19:12	1
Nitrate as N	**22700**		500		ug/L			04/17/24 19:22	10
Fluoride	**523**		500		ug/L			04/17/24 19:12	1

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<0.500	U	0.500		ug/L		04/16/24 16:30	04/24/24 19:24	1
Diuron	<0.00900	U	0.00900		ug/L		04/16/24 16:30	04/24/24 19:24	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13.6**		2.00		ug/L		04/23/24 18:30	04/29/24 16:49	1
Antimony	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:49	1
Arsenic	**1.28**		0.500		ug/L		04/23/24 18:30	04/29/24 16:49	1
Barium	**62.2**		4.00		ug/L		04/20/24 13:33	04/22/24 15:28	1

Client Sample ID: RCF-041624-01
Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-1
Matrix: Water

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:49	1
Cadmium	<1.00	U	1.00		ug/L		04/23/24 18:30	04/29/24 16:49	1
Chromium	<3.00	U	3.00		ug/L		04/23/24 18:30	04/29/24 16:49	1
Copper	**20.7**		2.00		ug/L		04/23/24 18:30	04/29/24 16:49	1
Lead	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:49	1
Nickel	**5.14**		2.00		ug/L		04/20/24 13:33	04/22/24 15:28	1
Selenium	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 15:28	1
Silver	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:49	1
Thallium	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:49	1
Zinc	**35.2**		4.00		ug/L		04/20/24 13:33	04/22/24 15:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, trivalent (SW846 7196A)	<3.00	U	3.00		ug/L			04/26/24 12:27	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM 3500 CR B)	<3.00	U	3.00		ug/L			04/17/24 08:01	1

Client Sample ID: RCF 041624-03
Date Collected: 04/16/24 09:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-6
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**929**		5.00		mg/L			04/18/24 16:18	1

Client Sample ID: RCF-041624-04
Date Collected: 04/16/24 09:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-7
Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000500	U	0.000500		ug/L		04/18/24 16:35	04/29/24 16:10	1

Client Sample ID: RCF-041624-02
Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-8
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	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,1,2,2-Tetrachloroethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,1,2-Trichloroethane	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
1,1-Dichloroethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,1-Dichloroethene	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
1,2-Dichloroethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,2-Dichloropropane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
2-Chloroethyl vinyl ether	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Acrolein	<0.0500	U	0.0500		mg/L			04/16/24 23:53	1
Acrylonitrile	<0.0500	U	0.0500		mg/L			04/16/24 23:53	1

Client Sample ID: RCF-041624-02

Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-8

Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
Bromodichloromethane	**0.00891**		0.00200		mg/L			04/16/24 23:53	1
1,2-Dibromoethane	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
Bromoform	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,2-Dichlorobenzene	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
Bromomethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Carbon tetrachloride	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
Chlorobenzene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Chloroethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,3-Dichlorobenzene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Chloroform	**0.0247**		0.00500		mg/L			04/16/24 23:53	1
Chloromethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
1,4-Dichlorobenzene	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
Dibromochloromethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Ethylbenzene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Methylene Chloride	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
2-Butanone	<0.0200	U	0.0200		mg/L			04/16/24 23:53	1
Tetrachloroethene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Toluene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Trichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Trichlorofluoromethane	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Vinyl chloride	<0.00200	U	0.00200		mg/L			04/16/24 23:53	1
cis-1,3-Dichloropropene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
trans-1,2-Dichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
trans-1,3-Dichloropropene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
cis-1,2-Dichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1
Trihalomethanes, Total	**0.0336**		0.00500		mg/L			04/16/24 23:53	1
1,3-Dichloropropene, Total	<0.00500	U	0.00500		mg/L			04/16/24 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 118*		*04/16/24 23:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 119*		*04/16/24 23:53*	*1*
Dibromofluoromethane (Surr)	*102*		*61 - 132*		*04/16/24 23:53*	*1*
Toluene-d8 (Surr)	*98*		*74 - 130*		*04/16/24 23:53*	*1*

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00181**		0.000500		ug/L		04/18/24 16:35	04/29/24 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total (EPA 420.4)	<8.00	U	8.00		ug/L			05/07/24 22:43	1
Cyanide, Total (EPA Kelada 01)	**11.0**	**H F1**	5.00		ug/L			05/01/24 13:35	1

Surrogate Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(76-118)	(76-119)	(61-132)	(74-130)
870-26179-8	RCF-041624-02	104	99	102	98
LCS 870-19369/13	Lab Control Sample	100	99	100	98
LCSD 870-19369/14	Lab Control Sample Dup	101	103	103	98
MB 870-19369/15	Method Blank	112	95	105	97

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**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(31-132)	(29-112)	(28-114)	(15-314)	(20-141)	(8-424)
870-26179-1	RCF-041624-01	87	75	36	83	83	23
LCS 860-155149/2-A	Lab Control Sample	78	70	39	67	72	25
LCSD 860-155149/3-A	Lab Control Sample Dup	100	88	48	82	89	30
MB 860-155149/1-A	Method Blank	67	81	38	77	90	22

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**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(15-136)	(18-126)
870-26179-1	RCF-041624-01	67 p	58 p
LCS 860-155305/2-A	Lab Control Sample	125	118
LCSD 860-155305/3-A	Lab Control Sample Dup	126	105
MB 860-155305/1-A	Method Blank	133	122

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(18-126)	(15-136)
870-26179-1	RCF-041624-01	67	100

Surrogate Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (18-126)	DCB1 (15-136)
LCS 860-155305/4-A	Lab Control Sample	104	143 S1+
LCSD 860-155305/5-A	Lab Control Sample Dup	103	135
MB 860-155305/1-A	Method Blank	105	142 S1+

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
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)
870-26179-1	RCF-041624-01	149
LCS 860-154991/2-A	Lab Control Sample	140
LCS 860-154991/4-A	Lab Control Sample	132
LCSD 860-154991/3-A	Lab Control Sample Dup	144
LCSD 860-154991/5-A	Lab Control Sample Dup	126
MB 860-154991/1-A	Method Blank	111

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 870-19369/15
Matrix: Water
Analysis Batch: 19369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,1,2,2-Tetrachloroethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,1,2-Trichloroethane	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
1,1-Dichloroethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,1-Dichloroethene	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
1,2-Dichloroethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,2-Dichloropropane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
2-Chloroethyl vinyl ether	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Acrolein	<0.0500	U	0.0500		mg/L			04/16/24 16:57	1
Acrylonitrile	<0.0500	U	0.0500		mg/L			04/16/24 16:57	1
Benzene	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
Bromodichloromethane	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
1,2-Dibromoethane	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
Bromoform	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,2-Dichlorobenzene	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
Bromomethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Carbon tetrachloride	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
Chlorobenzene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Chloroethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,3-Dichlorobenzene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Chloroform	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Chloromethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,4-Dichlorobenzene	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
Dibromochloromethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Ethylbenzene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Methylene Chloride	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
2-Butanone	<0.0200	U	0.0200		mg/L			04/16/24 16:57	1
Tetrachloroethene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Toluene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Trichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Trichlorofluoromethane	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Vinyl chloride	<0.00200	U	0.00200		mg/L			04/16/24 16:57	1
cis-1,3-Dichloropropene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
trans-1,2-Dichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
trans-1,3-Dichloropropene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
cis-1,2-Dichloroethene	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
Trihalomethanes, Total	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1
1,3-Dichloropropene, Total	<0.00500	U	0.00500		mg/L			04/16/24 16:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*76 - 118*		*04/16/24 16:57*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 119*		*04/16/24 16:57*	*1*
Dibromofluoromethane (Surr)	*105*		*61 - 132*		*04/16/24 16:57*	*1*
Toluene-d8 (Surr)	*97*		*74 - 130*		*04/16/24 16:57*	*1*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 870-19369/13
Matrix: Water
Analysis Batch: 19369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1,1-Trichloroethane			0.0503	0.04834		mg/L		96	70 - 130		
1,1,2,2-Tetrachloroethane			0.0504	0.04829		mg/L		96	70 - 130		
1,1,2-Trichloroethane			0.0503	0.04856		mg/L		97	75 - 130		
1,1-Dichloroethane			0.0505	0.04854		mg/L		96	71 - 130		
1,1-Dichloroethene			0.0504	0.04889		mg/L		97	70 - 130		
1,2-Dichloroethane			0.0505	0.04811		mg/L		95	72 - 130		
1,2-Dichloropropane			0.0504	0.04974		mg/L		99	70 - 130		
2-Chloroethyl vinyl ether			0.0501	0.05066		mg/L		101	70 - 130		
Acrolein			0.494	0.5207		mg/L		105	70 - 130		
Acrylonitrile			0.504	0.4889		mg/L		97	70 - 130		
Benzene			0.0503	0.04868		mg/L		97	70 - 130		
Bromodichloromethane			0.0505	0.04918		mg/L		97	70 - 130		
1,2-Dibromoethane			0.0504	0.04803		mg/L		95	70 - 130		
Bromoform			0.0504	0.04813		mg/L		96	70 - 130		
1,2-Dichlorobenzene			0.0503	0.04723		mg/L		94	70 - 130		
Bromomethane			0.0501	0.05167		mg/L		103	70 - 130		
Carbon tetrachloride			0.0505	0.04902		mg/L		97	70 - 125		
Chlorobenzene			0.0504	0.04694		mg/L		93	70 - 130		
Chloroethane			0.0500	0.05525		mg/L		111	70 - 130		
1,3-Dichlorobenzene			0.0504	0.04664		mg/L		93	75 - 130		
Chloroform			0.0505	0.05063		mg/L		100	70 - 121		
Chloromethane			0.0500	0.05363		mg/L		107	70 - 130		
1,4-Dichlorobenzene			0.0504	0.04575		mg/L		91	70 - 130		
Dibromochloromethane			0.0503	0.04981		mg/L		99	70 - 130		
Ethylbenzene			0.0504	0.04632		mg/L		92	75 - 130		
Methylene Chloride			0.0504	0.04827		mg/L		96	70 - 130		
2-Butanone			0.504	0.5074		mg/L		101	70 - 130		
Tetrachloroethene			0.0503	0.04701		mg/L		94	70 - 130		
Toluene			0.0505	0.04123		mg/L		82	75 - 130		
Trichloroethene			0.0503	0.04902		mg/L		98	75 - 130		
Trichlorofluoromethane			0.0500	0.05635		mg/L		113	70 - 130		
Vinyl chloride			0.0500	0.05595		mg/L		112	70 - 130		
cis-1,3-Dichloropropene			0.0505	0.04997		mg/L		99	70 - 130		
trans-1,2-Dichloroethene			0.0505	0.04998		mg/L		99	70 - 130		
trans-1,3-Dichloropropene			0.0504	0.04996		mg/L		99	70 - 130		
cis-1,2-Dichloroethene			0.0503	0.04784		mg/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 118*
4-Bromofluorobenzene (Surr)	*99*		*76 - 119*
Dibromofluoromethane (Surr)	*100*		*61 - 132*
Toluene-d8 (Surr)	*98*		*74 - 130*

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 870-19369/14
Matrix: Water
Analysis Batch: 19369

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
1,1,1-Trichloroethane			0.0503	0.05277		mg/L		105	70 - 130	9	21
1,1,2,2-Tetrachloroethane			0.0504	0.05337		mg/L		106	70 - 130	10	25
1,1,2-Trichloroethane			0.0503	0.05144		mg/L		102	75 - 130	6	25
1,1-Dichloroethane			0.0505	0.05304		mg/L		105	71 - 130	9	24
1,1-Dichloroethene			0.0504	0.05294		mg/L		105	70 - 130	8	25
1,2-Dichloroethane			0.0505	0.05130		mg/L		102	72 - 130	6	25
1,2-Dichloropropane			0.0504	0.05390		mg/L		107	70 - 130	8	25
2-Chloroethyl vinyl ether			0.0501	0.05465		mg/L		109	70 - 130	8	25
Acrolein			0.494	0.5477		mg/L		111	70 - 130	5	25
Acrylonitrile			0.504	0.5340		mg/L		106	70 - 130	9	25
Benzene			0.0503	0.05220		mg/L		104	70 - 130	7	25
Bromodichloromethane			0.0505	0.05342		mg/L		106	70 - 130	8	25
1,2-Dibromoethane			0.0504	0.05149		mg/L		102	70 - 130	7	25
Bromoform			0.0504	0.05416		mg/L		108	70 - 130	12	25
1,2-Dichlorobenzene			0.0503	0.05024		mg/L		100	70 - 130	6	25
Bromomethane			0.0501	0.05279		mg/L		105	70 - 130	2	25
Carbon tetrachloride			0.0505	0.05366		mg/L		106	70 - 125	9	25
Chlorobenzene			0.0504	0.05064		mg/L		100	70 - 130	8	25
Chloroethane			0.0500	0.05402		mg/L		108	70 - 130	2	25
1,3-Dichlorobenzene			0.0504	0.05142		mg/L		102	75 - 130	10	24
Chloroform			0.0505	0.05437		mg/L		108	70 - 121	7	25
Chloromethane			0.0500	0.05221		mg/L		104	70 - 130	3	25
1,4-Dichlorobenzene			0.0504	0.04911		mg/L		97	70 - 130	7	25
Dibromochloromethane			0.0503	0.05216		mg/L		104	70 - 130	5	25
Ethylbenzene			0.0504	0.04994		mg/L		99	75 - 130	8	25
Methylene Chloride			0.0504	0.05457		mg/L		108	70 - 130	12	25
2-Butanone			0.504	0.5331		mg/L		106	70 - 130	5	25
Tetrachloroethene			0.0503	0.05061		mg/L		101	70 - 130	7	23
Toluene			0.0505	0.04435		mg/L		88	75 - 130	7	22
Trichloroethene			0.0503	0.05371		mg/L		107	75 - 130	9	25
Trichlorofluoromethane			0.0500	0.05598		mg/L		112	70 - 130	1	25
Vinyl chloride			0.0500	0.05511		mg/L		110	70 - 130	2	25
cis-1,3-Dichloropropene			0.0505	0.05282		mg/L		105	70 - 130	6	25
trans-1,2-Dichloroethene			0.0505	0.05446		mg/L		108	70 - 130	9	25
trans-1,3-Dichloropropene			0.0504	0.05324		mg/L		106	70 - 130	6	25
cis-1,2-Dichloroethene			0.0503	0.05193		mg/L		103	70 - 130	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 118*
4-Bromofluorobenzene (Surr)	*103*		*76 - 119*
Dibromofluoromethane (Surr)	*103*		*61 - 132*
Toluene-d8 (Surr)	*98*		*74 - 130*

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-155149/1-A
Matrix: Water
Analysis Batch: 155592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Acenaphthene	<5.70	U	5.70		ug/L		04/16/24 16:31	04/18/24 20:57	1
Acenaphthylene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Anthracene	<5.70	U	5.70		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzidine	<20.0	U	20.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzo[a]anthracene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzo[a]pyrene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzo[b]fluoranthene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzo[g,h,i]perylene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Benzo[k]fluoranthene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Butyl benzyl phthalate	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Bis(2-chloroethyl)ether	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,4,5-Trichlorophenol	<0.0100	U	0.0100		mg/L		04/16/24 16:31	04/18/24 20:57	1
Bis(2-chloroethoxy)methane	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Bis(2-ethylhexyl) phthalate	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
4-Chlorophenyl phenyl ether	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
4-Bromophenyl phenyl ether	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
2-Chloronaphthalene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Chrysene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Dibenz(a,h)anthracene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Diethyl phthalate	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Dimethyl phthalate	<2.50	U	2.50		ug/L		04/16/24 16:31	04/18/24 20:57	1
Di-n-butyl phthalate	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
1,2-Dichlorobenzene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
1,3-Dichlorobenzene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
1,4-Dichlorobenzene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
2-Methylphenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
3 & 4 Methylphenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
3,3'-Dichlorobenzidine	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,4-Dinitrotoluene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,6-Dinitrotoluene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Fluoranthene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Fluorene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Hexachlorobenzene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Hexachlorobutadiene	<1.00	U	1.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Hexachlorocyclopentadiene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Hexachloroethane	<4.80	U	4.80		ug/L		04/16/24 16:31	04/18/24 20:57	1
Indeno[1,2,3-cd]pyrene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Isophorone	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Naphthalene	<2.50	U	2.50		ug/L		04/16/24 16:31	04/18/24 20:57	1
Nitrobenzene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
N-Nitrosodimethylamine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Phenanthrene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Pyrene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
1,2,4-Trichlorobenzene	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
2-Chlorophenol	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
4-Chloro-3-methylphenol	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,4-Dichlorophenol	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-155149/1-A
Matrix: Water
Analysis Batch: 155592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dimethylphenol	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,4-Dinitrophenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
2-Nitrophenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
4-Nitrophenol	<7.20	U	7.20		ug/L		04/16/24 16:31	04/18/24 20:57	1
Pentachlorophenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Phenol	<4.50	U	4.50		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,4,6-Trichlorophenol	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
Di-n-octyl phthalate	<5.00	U	5.00		ug/L		04/16/24 16:31	04/18/24 20:57	1
N-Nitrosodi-n-propylamine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
N-Nitrosodiphenylamine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
2,2'-oxybis[1-chloropropane]	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Hexachlorophene	<100	U	100		ug/L		04/16/24 16:31	04/18/24 20:57	1
4,6-Dinitro-2-methylphenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
1,2-Diphenylhydrazine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
N-Nitrosodi-n-butylamine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
N-Nitrosodiethylamine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Nonylphenol	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Pentachlorobenzene	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Pyridine	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1
Total Cresols	<10.0	U	10.0		ug/L		04/16/24 16:31	04/18/24 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*31 - 132*	*04/16/24 16:31*	*04/18/24 20:57*	*1*
2-Fluorobiphenyl (Surr)	*81*		*29 - 112*	*04/16/24 16:31*	*04/18/24 20:57*	*1*
2-Fluorophenol (Surr)	*38*		*28 - 114*	*04/16/24 16:31*	*04/18/24 20:57*	*1*
Nitrobenzene-d5 (Surr)	*77*		*15 - 314*	*04/16/24 16:31*	*04/18/24 20:57*	*1*
p-Terphenyl-d14 (Surr)	*90*		*20 - 141*	*04/16/24 16:31*	*04/18/24 20:57*	*1*
Phenol-d5 (Surr)	*22*		*8 - 424*	*04/16/24 16:31*	*04/18/24 20:57*	*1*

Lab Sample ID: LCS 860-155149/2-A
Matrix: Water
Analysis Batch: 155462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	40.0	26.06		ug/L		65	41 - 125
Acenaphthene	40.0	28.03		ug/L		70	60 - 132
Acenaphthylene	40.0	26.51		ug/L		66	54 - 126
Anthracene	40.0	28.82		ug/L		72	43 - 120
Benzidine	40.0	<4.80	U *-	ug/L		6	25 - 125
Benzo[a]anthracene	40.0	27.15		ug/L		68	42 - 133
Benzo[a]pyrene	40.0	31.78		ug/L		79	32 - 148
Benzo[b]fluoranthene	40.0	29.96		ug/L		75	42 - 140
Benzo[g,h,i]perylene	40.0	29.16		ug/L		73	13 - 195
Benzo[k]fluoranthene	40.0	29.37		ug/L		73	25 - 146
Butyl benzyl phthalate	40.0	29.09		ug/L		73	12 - 140
Bis(2-chloroethyl)ether	40.0	28.26		ug/L		71	43 - 126
2,4,5-Trichlorophenol	0.0400	0.02816		mg/L		70	35 - 111
Bis(2-chloroethoxy)methane	40.0	26.92		ug/L		67	49 - 165

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-155149/2-A
Matrix: Water
Analysis Batch: 155462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	40.0	29.71		ug/L		74	29 - 137
4-Chlorophenyl phenyl ether	40.0	29.43		ug/L		74	38 - 145
4-Bromophenyl phenyl ether	40.0	29.94		ug/L		75	65 - 120
2-Chloronaphthalene	40.0	26.37		ug/L		66	65 - 120
Chrysene	40.0	25.67		ug/L		64	44 - 140
Dibenz(a,h)anthracene	40.0	31.39		ug/L		78	16 - 200
Diethyl phthalate	40.0	26.74		ug/L		67	17 - 120
Dimethyl phthalate	40.0	27.18		ug/L		68	25 - 120
Di-n-butyl phthalate	40.0	32.12		ug/L		80	8 - 120
1,2-Dichlorobenzene	40.0	25.03		ug/L		63	60 - 140
1,3-Dichlorobenzene	40.0	23.61	*-	ug/L		59	60 - 140
1,4-Dichlorobenzene	40.0	24.07		ug/L		60	19 - 121
2-Methylphenol	40.0	20.31		ug/L		51	14 - 176
3 & 4 Methylphenol	40.0	19.46		ug/L		49	14 - 176
3,3'-Dichlorobenzidine	40.0	12.76		ug/L		32	18 - 213
2,4-Dinitrotoluene	40.0	27.76		ug/L		69	48 - 127
2,6-Dinitrotoluene	40.0	27.00		ug/L		68	68 - 137
Fluoranthene	40.0	27.87		ug/L		70	43 - 121
Fluorene	40.0	29.10		ug/L		73	70 - 120
Hexachlorobenzene	40.0	28.93		ug/L		72	8 - 142
Hexachlorobutadiene	40.0	23.52		ug/L		59	38 - 120
Hexachlorocyclopentadiene	40.0	29.26		ug/L		73	41 - 125
Hexachloroethane	40.0	20.62	*-	ug/L		52	55 - 120
Indeno[1,2,3-cd]pyrene	40.0	30.81		ug/L		77	13 - 151
Isophorone	40.0	26.80		ug/L		67	47 - 180
Naphthalene	40.0	28.42		ug/L		71	36 - 120
Nitrobenzene	40.0	27.40		ug/L		69	54 - 158
N-Nitrosodimethylamine	40.0	13.27		ug/L		33	20 - 125
Phenanthrene	40.0	27.89		ug/L		70	65 - 120
Pyrene	40.0	30.01		ug/L		75	70 - 120
1,2,4-Trichlorobenzene	40.0	25.54		ug/L		64	57 - 130
2-Chlorophenol	40.0	24.82		ug/L		62	36 - 120
4-Chloro-3-methylphenol	40.0	25.68		ug/L		64	41 - 128
2,4-Dichlorophenol	40.0	29.86		ug/L		75	53 - 122
2,4-Dimethylphenol	40.0	33.70		ug/L		84	42 - 120
2,4-Dinitrophenol	40.0	16.19		ug/L		40	12 - 173
2-Nitrophenol	40.0	29.42		ug/L		74	45 - 167
4-Nitrophenol	40.0	7.860		ug/L		20	13 - 129
Pentachlorophenol	40.0	22.16		ug/L		55	38 - 152
Phenol	40.0	11.55		ug/L		29	17 - 120
2,4,6-Trichlorophenol	40.0	29.50		ug/L		74	52 - 129
Di-n-octyl phthalate	40.0	35.41		ug/L		89	19 - 132
N-Nitrosodi-n-propylamine	40.0	27.89		ug/L		70	14 - 198
N-Nitrosodiphenylamine	40.0	27.40		ug/L		68	2 - 196
2,2'-oxybis[1-chloropropane]	40.0	26.78		ug/L		67	63 - 139
4,6-Dinitro-2-methylphenol	40.0	30.90		ug/L		77	53 - 130
1,2-Diphenylhydrazine	40.0	26.86		ug/L		67	28 - 136
N-Nitrosodi-n-butylamine	40.0	24.68		ug/L		62	33 - 141
N-Nitrosodiethylamine	40.0	32.10		ug/L		80	30 - 160

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-155149/2-A
Matrix: Water
Analysis Batch: 155462

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155149

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pentachlorobenzene			40.0	26.77		ug/L		67	25 - 131		
Pyridine			80.0	14.06		ug/L		18	5 - 94		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*31 - 132*
2-Fluorobiphenyl (Surr)	*70*		*29 - 112*
2-Fluorophenol (Surr)	*39*		*28 - 114*
Nitrobenzene-d5 (Surr)	*67*		*15 - 314*
p-Terphenyl-d14 (Surr)	*72*		*20 - 141*
Phenol-d5 (Surr)	*25*		*8 - 424*

Lab Sample ID: LCSD 860-155149/3-A
Matrix: Water
Analysis Batch: 155462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			40.0	34.00		ug/L		85	41 - 125	26	30
Acenaphthene			40.0	36.64		ug/L		92	60 - 132	27	29
Acenaphthylene			40.0	34.88		ug/L		87	54 - 126	27	30
Anthracene			40.0	37.15		ug/L		93	43 - 120	25	30
Benzidine			40.0	<4.80	U *- *1	ug/L		3	25 - 125	59	30
Benzo[a]anthracene			40.0	34.44		ug/L		86	42 - 133	24	30
Benzo[a]pyrene			40.0	40.23		ug/L		101	32 - 148	23	30
Benzo[b]fluoranthene			40.0	37.97		ug/L		95	42 - 140	24	30
Benzo[g,h,i]perylene			40.0	37.05		ug/L		93	13 - 195	24	30
Benzo[k]fluoranthene			40.0	36.80		ug/L		92	25 - 146	22	30
Butyl benzyl phthalate			40.0	37.28		ug/L		93	12 - 140	25	30
Bis(2-chloroethyl)ether			40.0	36.53		ug/L		91	43 - 126	26	30
2,4,5-Trichlorophenol			0.0400	0.03715		mg/L		93	35 - 111	28	30
Bis(2-chloroethoxy)methane			40.0	34.62		ug/L		87	49 - 165	25	30
Bis(2-ethylhexyl) phthalate			40.0	37.94		ug/L		95	29 - 137	24	30
4-Chlorophenyl phenyl ether			40.0	38.77		ug/L		97	38 - 145	27	30
4-Bromophenyl phenyl ether			40.0	39.16	*1	ug/L		98	65 - 120	27	26
2-Chloronaphthalene			40.0	36.74	*1	ug/L		92	65 - 120	33	15
Chrysene			40.0	31.74		ug/L		79	44 - 140	21	30
Dibenz(a,h)anthracene			40.0	39.68		ug/L		99	16 - 200	23	30
Diethyl phthalate			40.0	34.89		ug/L		87	17 - 120	26	30
Dimethyl phthalate			40.0	35.17		ug/L		88	25 - 120	26	30
Di-n-butyl phthalate			40.0	41.00		ug/L		103	8 - 120	24	28
1,2-Dichlorobenzene			40.0	31.63		ug/L		79	60 - 140	23	30
1,3-Dichlorobenzene			40.0	29.57		ug/L		74	60 - 140	22	30
1,4-Dichlorobenzene			40.0	30.50		ug/L		76	19 - 121	24	30
2-Methylphenol			40.0	25.85		ug/L		65	14 - 176	24	30
3 & 4 Methylphenol			40.0	24.67		ug/L		62	14 - 176	24	30
3,3'-Dichlorobenzidine			40.0	15.73		ug/L		39	18 - 213	21	30
2,4-Dinitrotoluene			40.0	36.57	*1	ug/L		91	48 - 127	27	25
2,6-Dinitrotoluene			40.0	36.03		ug/L		90	68 - 137	29	29
Fluoranthene			40.0	36.72		ug/L		92	43 - 121	27	30

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-155149/3-A
Matrix: Water
Analysis Batch: 155462

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155149

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene			40.0	37.83	*1	ug/L		95	70 - 120	26	23
Hexachlorobenzene			40.0	38.04		ug/L		95	8 - 142	27	30
Hexachlorobutadiene			40.0	30.09		ug/L		75	38 - 120	24	30
Hexachlorocyclopentadiene			40.0	44.23	*1	ug/L		111	41 - 125	41	30
Hexachloroethane			40.0	26.27		ug/L		66	55 - 120	24	30
Indeno[1,2,3-cd]pyrene			40.0	39.38		ug/L		98	13 - 151	24	30
Isophorone			40.0	34.29		ug/L		86	47 - 180	25	30
Naphthalene			40.0	36.87		ug/L		92	36 - 120	26	30
Nitrobenzene			40.0	35.49		ug/L		89	54 - 158	26	30
N-Nitrosodimethylamine			40.0	16.77		ug/L		42	20 - 125	23	30
Phenanthrene			40.0	36.06		ug/L		90	65 - 120	26	30
Pyrene			40.0	38.60		ug/L		97	70 - 120	25	30
1,2,4-Trichlorobenzene			40.0	32.07		ug/L		80	57 - 130	23	30
2-Chlorophenol			40.0	31.60		ug/L		79	36 - 120	24	30
4-Chloro-3-methylphenol			40.0	33.18		ug/L		83	41 - 128	25	30
2,4-Dichlorophenol			40.0	38.81		ug/L		97	53 - 122	26	30
2,4-Dimethylphenol			40.0	43.51		ug/L		109	42 - 120	25	30
2,4-Dinitrophenol			40.0	24.04	*1	ug/L		60	12 - 173	39	30
2-Nitrophenol			40.0	38.14		ug/L		95	45 - 167	26	30
4-Nitrophenol			40.0	10.37		ug/L		26	13 - 129	28	30
Pentachlorophenol			40.0	28.79		ug/L		72	38 - 152	26	30
Phenol			40.0	14.61		ug/L		37	17 - 120	23	30
2,4,6-Trichlorophenol			40.0	38.55		ug/L		96	52 - 129	27	30
Di-n-octyl phthalate			40.0	45.33		ug/L		113	19 - 132	25	30
N-Nitrosodi-n-propylamine			40.0	35.05		ug/L		88	14 - 198	23	30
N-Nitrosodiphenylamine			40.0	35.78		ug/L		89	2 - 196	27	30
2,2'-oxybis[1-chloropropane]			40.0	33.68		ug/L		84	63 - 139	23	30
4,6-Dinitro-2-methylphenol			40.0	42.45	*1	ug/L		106	53 - 130	31	30
1,2-Diphenylhydrazine			40.0	34.82		ug/L		87	28 - 136	26	30
N-Nitrosodi-n-butylamine			40.0	32.06		ug/L		80	33 - 141	26	30
N-Nitrosodiethylamine			40.0	42.17		ug/L		105	30 - 160	27	30
Pentachlorobenzene			40.0	35.22		ug/L		88	25 - 131	27	30
Pyridine			80.0	12.43		ug/L		16	5 - 94	12	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*100*		*31 - 132*
2-Fluorobiphenyl (Surr)	*88*		*29 - 112*
2-Fluorophenol (Surr)	*48*		*28 - 114*
Nitrobenzene-d5 (Surr)	*82*		*15 - 314*
p-Terphenyl-d14 (Surr)	*89*		*20 - 141*
Phenol-d5 (Surr)	*30*		*8 - 424*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-155305/1-A
Matrix: Water
Analysis Batch: 156479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
alpha-BHC	<0.00900	U	0.00900		ug/L		04/17/24 13:51	04/24/24 10:56	1
beta-BHC	<0.0180	U	0.0180		ug/L		04/17/24 13:51	04/24/24 10:56	1
delta-BHC	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
gamma-BHC (Lindane)	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
4,4'-DDD	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
4,4'-DDE	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
4,4'-DDT	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 10:56	1
Dieldrin	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Endosulfan I	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Endosulfan II	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Endosulfan sulfate	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Endrin	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Endrin aldehyde	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Dicofol	<0.100	U	0.100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Heptachlor	<0.00900	U	0.00900		ug/L		04/17/24 13:51	04/24/24 10:56	1
Heptachlor epoxide	<0.0100	U	0.0100		ug/L		04/17/24 13:51	04/24/24 10:56	1
Toxaphene	<0.0600	U	0.0600		ug/L		04/17/24 13:51	04/24/24 10:56	1
Chlordane	<0.0400	U	0.0400		ug/L		04/17/24 13:51	04/24/24 10:56	1
Methoxychlor	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 10:56	1
Mirex	<0.0200	U	0.0200		ug/L		04/17/24 13:51	04/24/24 10:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*133*		*15 - 136*	*04/17/24 13:51*	*04/24/24 10:56*	*1*
Tetrachloro-m-xylene (Surr)	*122*		*18 - 126*	*04/17/24 13:51*	*04/24/24 10:56*	*1*

Lab Sample ID: LCS 860-155305/2-A
Matrix: Water
Analysis Batch: 156479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.100	0.1084		ug/L		108	42 - 140
alpha-BHC	0.100	0.1014		ug/L		101	37 - 140
beta-BHC	0.100	0.1126		ug/L		113	17 - 147
delta-BHC	0.100	0.04072		ug/L		41	19 - 140
gamma-BHC (Lindane)	0.100	0.1127		ug/L		113	34 - 140
4,4'-DDD	0.100	0.1112		ug/L		111	31 - 141
4,4'-DDE	0.100	0.1146		ug/L		115	30 - 145
4,4'-DDT	0.100	0.1037		ug/L		104	25 - 160
Dieldrin	0.100	0.1105		ug/L		111	36 - 146
Endosulfan I	0.100	0.1132		ug/L		113	45 - 153
Endosulfan II	0.100	0.1062		ug/L		106	22 - 171
Endosulfan sulfate	0.100	0.09132		ug/L		91	26 - 144
Endrin	0.100	0.1436		ug/L		144	30 - 147
Endrin aldehyde	0.100	0.1028		ug/L		103	60 - 130
Heptachlor	0.100	0.1208		ug/L		121	34 - 140
Heptachlor epoxide	0.100	0.1138		ug/L		114	37 - 142
Methoxychlor	0.100	0.1128		ug/L		113	50 - 130

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 860-155305/2-A
Matrix: Water
Analysis Batch: 156479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155305

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*125*		*15 - 136*
Tetrachloro-m-xylene (Surr)	*118*		*18 - 126*

Lab Sample ID: LCSD 860-155305/3-A
Matrix: Water
Analysis Batch: 156479

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155305

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.100	0.1066		ug/L		107	42 - 140	2	30
alpha-BHC			0.100	0.09764		ug/L		98	37 - 140	4	30
beta-BHC			0.100	0.1162		ug/L		116	17 - 147	3	30
delta-BHC			0.100	0.04330		ug/L		43	19 - 140	6	30
gamma-BHC (Lindane)			0.100	0.1114		ug/L		111	34 - 140	1	30
4,4'-DDD			0.100	0.1170		ug/L		117	31 - 141	5	30
4,4'-DDE			0.100	0.1190		ug/L		119	30 - 145	4	30
4,4'-DDT			0.100	0.1084		ug/L		108	25 - 160	4	30
Dieldrin			0.100	0.1165		ug/L		116	36 - 146	5	30
Endosulfan I			0.100	0.1187		ug/L		119	45 - 153	5	30
Endosulfan II			0.100	0.1133		ug/L		113	22 - 171	6	30
Endosulfan sulfate			0.100	0.09867		ug/L		99	26 - 144	8	30
Endrin			0.100	0.1491	*+	ug/L		149	30 - 147	4	30
Endrin aldehyde			0.100	0.1097		ug/L		110	60 - 130	6	30
Heptachlor			0.100	0.1182		ug/L		118	34 - 140	2	30
Heptachlor epoxide			0.100	0.1190		ug/L		119	37 - 142	5	30
Methoxychlor			0.100	0.1200		ug/L		120	50 - 130	6	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*126*		*15 - 136*
Tetrachloro-m-xylene (Surr)	*105*		*18 - 126*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-155305/1-A
Matrix: Water
Analysis Batch: 155449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155305

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1242	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1254	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1221	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1232	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1248	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
PCB-1260	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1
Polychlorinated biphenyls, Total	<0.100	U	0.100		ug/L		04/17/24 13:51	04/18/24 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*105*		*18 - 126*	*04/17/24 13:51*	*04/18/24 14:02*	*1*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 860-155305/1-A
Matrix: Water
Analysis Batch: 155449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155305

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	142	S1+	15 - 136	04/17/24 13:51	04/18/24 14:02	1

Lab Sample ID: LCS 860-155305/4-A
Matrix: Water
Analysis Batch: 155449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155305

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	1.00	0.9213		ug/L		92	61 - 103
PCB-1260	1.00	1.112		ug/L		111	37 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	104		18 - 126
DCB Decachlorobiphenyl (Surr)	143	S1+	15 - 136

Lab Sample ID: LCSD 860-155305/5-A
Matrix: Water
Analysis Batch: 155449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155305

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	1.00	0.9615		ug/L		96	61 - 103	4	24
PCB-1260	1.00	1.116		ug/L		112	37 - 130	0	28

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	103		18 - 126
DCB Decachlorobiphenyl (Surr)	135		15 - 136

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-154991/1-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.000200	U	0.000200		mg/L		04/16/24 08:01	04/21/24 08:03	1
Hexachlorophene	<0.00500	U	0.00500		mg/L		04/16/24 08:01	04/21/24 08:03	1
Silvex (2,4,5-TP)	<0.000200	U	0.000200		mg/L		04/16/24 08:01	04/21/24 08:03	1
Pentachlorophenol	<0.000200	U	0.000200		mg/L		04/16/24 08:01	04/21/24 08:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	111		45 - 150	04/16/24 08:01	04/21/24 08:03	1

Lab Sample ID: LCS 860-154991/2-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.00200	0.002171		mg/L		109	55 - 145
Silvex (2,4,5-TP)	0.00200	0.002424		mg/L		121	55 - 140

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-154991/2-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154991

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Pentachlorophenol			0.00200	0.001798		mg/L		90	50 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*140*		*45 - 150*

Lab Sample ID: LCS 860-154991/4-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154991

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexachlorophene			0.00800	0.009589		mg/L		120	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*132*		*45 - 150*

Lab Sample ID: LCSD 860-154991/3-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 154991

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			0.00200	0.002041		mg/L		102	55 - 145	6	25
Silvex (2,4,5-TP)			0.00200	0.002309		mg/L		115	55 - 140	5	25
Pentachlorophenol			0.00200	0.001782		mg/L		89	50 - 135	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*144*		*45 - 150*

Lab Sample ID: LCSD 860-154991/5-A
Matrix: Water
Analysis Batch: 155669

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 154991

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorophene			0.00800	0.009239		mg/L		115	60 - 135	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*126*		*45 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-155066/3
Matrix: Water
Analysis Batch: 155066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<500	U	500		ug/L			04/16/24 13:05	1
Fluoride	<500	U	500		ug/L			04/16/24 13:05	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-155066/94
Matrix: Water
Analysis Batch: 155066

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<500	U	500		ug/L			04/17/24 10:09	1
Fluoride	<500	U	500		ug/L			04/17/24 10:09	1

Lab Sample ID: LCS 860-155066/95
Matrix: Water
Analysis Batch: 155066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10000	9158		ug/L		92	90 - 110
Fluoride	10000	10510		ug/L		105	90 - 110

Lab Sample ID: LCSD 860-155066/96
Matrix: Water
Analysis Batch: 155066

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
Chloride	10000	9100		ug/L		91	90 - 110	1	20
Fluoride	10000	10510		ug/L		105	90 - 110	0	20

Lab Sample ID: LLCS 860-155066/7
Matrix: Water
Analysis Batch: 155066

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	500	643.3		ug/L		129	50 - 150
Fluoride	500	480.4	J	ug/L		96	50 - 150

Lab Sample ID: MB 860-155067/3
Matrix: Water
Analysis Batch: 155067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<50.0	U	50.0		ug/L			04/16/24 13:05	1

Lab Sample ID: MB 860-155067/94
Matrix: Water
Analysis Batch: 155067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<50.0	U	50.0		ug/L			04/17/24 10:09	1

Lab Sample ID: LCS 860-155067/95
Matrix: Water
Analysis Batch: 155067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10000	10220		ug/L		102	80 - 120

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-155067/96
Matrix: Water
Analysis Batch: 155067

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
Nitrate as N	10000	10210		ug/L		102	80 - 120	0	20

Lab Sample ID: LLCS 860-155067/6
Matrix: Water
Analysis Batch: 155067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	100	137.1		ug/L		137	50 - 150

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-155148/1-A
Matrix: Water
Analysis Batch: 157123

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<5.00	U	5.00		ug/L		04/16/24 16:30	04/24/24 15:01	1
Diuron	<0.0900	U	0.0900		ug/L		04/16/24 16:30	04/24/24 15:01	1

Lab Sample ID: LCS 860-155148/2-A
Matrix: Water
Analysis Batch: 157123

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	82.13		ug/L		82	70 - 130
Diuron	2.00	1.885		ug/L		94	70 - 130

Lab Sample ID: LCSD 860-155148/3-A
Matrix: Water
Analysis Batch: 157123

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 155148

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	86.93		ug/L		87	70 - 130	6	20
Diuron	2.00	1.868		ug/L		93	70 - 130	1	20

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-669715/3-A
Matrix: Water
Analysis Batch: 669797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 669715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000500	U	0.000500		ug/L		04/26/24 16:00	04/29/24 11:07	1

Lab Sample ID: LCS 400-669715/4-A
Matrix: Water
Analysis Batch: 669797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 669715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005951		ug/L		119	79 - 121

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: LCSD 400-669715/5-A
Matrix: Water
Analysis Batch: 669797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 669715

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.00500	0.005813		ug/L		116	79 - 121	2	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 860-155875/1-A
Matrix: Water
Analysis Batch: 156097

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 155875

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Antimony	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Arsenic	<0.500	U	0.500		ug/L		04/20/24 13:33	04/22/24 13:43	1
Barium	<4.00	U	4.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Beryllium	<0.500	U	0.500		ug/L		04/20/24 13:33	04/22/24 13:43	1
Cadmium	<1.00	U	1.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Chromium	<3.00	U	3.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Copper	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Lead	<0.500	U	0.500		ug/L		04/20/24 13:33	04/22/24 13:43	1
Nickel	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Selenium	<2.00	U	2.00		ug/L		04/20/24 13:33	04/22/24 13:43	1
Silver	<0.500	U	0.500		ug/L		04/20/24 13:33	04/22/24 13:43	1
Thallium	<0.500	U	0.500		ug/L		04/20/24 13:33	04/22/24 13:43	1
Zinc	<4.00	U	4.00		ug/L		04/20/24 13:33	04/22/24 13:43	1

Lab Sample ID: LCS 860-155875/2-A
Matrix: Water
Analysis Batch: 156097

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 155875

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aluminum			500	490.4		ug/L		98	85 - 115		
Antimony			100	101.4		ug/L		101	85 - 115		
Arsenic			100	96.71		ug/L		97	85 - 115		
Barium			100	97.19		ug/L		97	85 - 115		
Beryllium			100	93.21		ug/L		93	85 - 115		
Cadmium			100	98.99		ug/L		99	85 - 115		
Chromium			100	98.22		ug/L		98	85 - 115		
Copper			100	96.52		ug/L		97	85 - 115		
Lead			100	97.78		ug/L		98	85 - 115		
Nickel			100	95.69		ug/L		96	85 - 115		
Selenium			100	95.36		ug/L		95	85 - 115		
Silver			50.0	47.22		ug/L		94	85 - 115		
Thallium			100	97.95		ug/L		98	85 - 115		
Zinc			100	97.10		ug/L		97	85 - 115		

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-155875/3-A
Matrix: Water
Analysis Batch: 156097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 155875

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	500	490.8		ug/L		98	85 - 115	0	20
Antimony	100	105.0		ug/L		105	85 - 115	4	20
Arsenic	100	96.87		ug/L		97	85 - 115	0	20
Barium	100	97.24		ug/L		97	85 - 115	0	20
Beryllium	100	93.70		ug/L		94	85 - 115	1	20
Cadmium	100	98.68		ug/L		99	85 - 115	0	20
Chromium	100	99.15		ug/L		99	85 - 115	1	20
Copper	100	96.60		ug/L		97	85 - 115	0	20
Lead	100	97.98		ug/L		98	85 - 115	0	20
Nickel	100	96.05		ug/L		96	85 - 115	0	20
Selenium	100	95.23		ug/L		95	85 - 115	0	20
Silver	50.0	47.38		ug/L		95	85 - 115	0	20
Thallium	100	98.33		ug/L		98	85 - 115	0	20
Zinc	100	96.86		ug/L		97	85 - 115	0	20

Lab Sample ID: LLCS 860-155875/4-A
Matrix: Water
Analysis Batch: 156097

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 155875

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	20.0	22.17		ug/L		111	50 - 150
Antimony	2.00	2.829		ug/L		141	50 - 150
Arsenic	4.00	3.778		ug/L		94	50 - 150
Barium	4.00	3.541	J	ug/L		89	50 - 150
Beryllium	2.00	1.870		ug/L		94	50 - 150
Cadmium	2.00	2.013		ug/L		101	50 - 150
Chromium	4.00	3.623		ug/L		91	50 - 150
Copper	4.00	3.999		ug/L		100	50 - 150
Lead	2.00	1.937		ug/L		97	50 - 150
Nickel	2.00	1.707	J	ug/L		85	50 - 150
Selenium	2.00	1.946	J	ug/L		97	50 - 150
Silver	2.00	2.161		ug/L		108	50 - 150
Thallium	2.00	1.896		ug/L		95	50 - 150
Zinc	4.00	3.884	J	ug/L		97	50 - 150

Lab Sample ID: MB 860-156396/1-A
Matrix: Water
Analysis Batch: 157911

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 156396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Antimony	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Arsenic	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:16	1
Barium	<4.00	U	4.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Beryllium	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:16	1
Cadmium	<1.00	U	1.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Chromium	<3.00	U	3.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Copper	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Lead	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:16	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-156396/1-A
Matrix: Water
Analysis Batch: 157911

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 156396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Selenium	<2.00	U	2.00		ug/L		04/23/24 18:30	04/29/24 16:16	1
Silver	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:16	1
Thallium	<0.500	U	0.500		ug/L		04/23/24 18:30	04/29/24 16:16	1
Zinc	<4.00	U	4.00		ug/L		04/23/24 18:30	04/29/24 16:16	1

Lab Sample ID: LCS 860-156396/2-A
Matrix: Water
Analysis Batch: 157911

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 156396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	50.0	49.05		ug/L		98	85 - 115
Antimony	50.0	53.88		ug/L		108	85 - 115
Arsenic	50.0	49.94		ug/L		100	85 - 115
Barium	50.0	51.22		ug/L		102	85 - 115
Beryllium	50.0	49.24		ug/L		98	85 - 115
Cadmium	50.0	49.17		ug/L		98	85 - 115
Chromium	50.0	49.64		ug/L		99	85 - 115
Copper	50.0	49.63		ug/L		99	85 - 115
Lead	50.0	49.77		ug/L		100	85 - 115
Nickel	50.0	49.60		ug/L		99	85 - 115
Selenium	50.0	49.18		ug/L		98	85 - 115
Silver	50.0	51.58		ug/L		103	85 - 115
Thallium	50.0	50.17		ug/L		100	85 - 115
Zinc	50.0	49.50		ug/L		99	85 - 115

Lab Sample ID: LCSD 860-156396/3-A
Matrix: Water
Analysis Batch: 157911

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 156396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	50.0	50.04		ug/L		100	85 - 115	2	20
Antimony	50.0	52.46		ug/L		105	85 - 115	3	20
Arsenic	50.0	50.62		ug/L		101	85 - 115	1	20
Barium	50.0	50.68		ug/L		101	85 - 115	1	20
Beryllium	50.0	49.74		ug/L		99	85 - 115	1	20
Cadmium	50.0	50.05		ug/L		100	85 - 115	2	20
Chromium	50.0	50.08		ug/L		100	85 - 115	1	20
Copper	50.0	50.24		ug/L		100	85 - 115	1	20
Lead	50.0	50.14		ug/L		100	85 - 115	1	20
Nickel	50.0	50.40		ug/L		101	85 - 115	2	20
Selenium	50.0	49.58		ug/L		99	85 - 115	1	20
Silver	50.0	50.44		ug/L		101	85 - 115	2	20
Thallium	50.0	50.34		ug/L		101	85 - 115	0	20
Zinc	50.0	50.61		ug/L		101	85 - 115	2	20

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 860-156396/4-A
Matrix: Water
Analysis Batch: 157911

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 156396

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	20.0	19.58		ug/L		98	50 - 150
Antimony	2.00	2.316		ug/L		116	50 - 150
Arsenic	4.00	3.749		ug/L		94	50 - 150
Barium	4.00	3.724	J	ug/L		93	50 - 150
Beryllium	2.00	1.932		ug/L		97	50 - 150
Cadmium	2.00	2.020		ug/L		101	50 - 150
Chromium	4.00	4.411		ug/L		110	50 - 150
Copper	4.00	4.113		ug/L		103	50 - 150
Lead	2.00	1.961		ug/L		98	50 - 150
Nickel	2.00	2.160		ug/L		108	50 - 150
Selenium	2.00	2.372		ug/L		119	50 - 150
Silver	2.00	2.525		ug/L		126	50 - 150
Thallium	2.00	1.920		ug/L		96	50 - 150
Zinc	4.00	3.759	J	ug/L		94	50 - 150

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-159119/103
Matrix: Water
Analysis Batch: 159119

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<8.00	U	8.00		ug/L			05/07/24 21:13	1

Lab Sample ID: LCS 860-159119/104
Matrix: Water
Analysis Batch: 159119

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	100	96.00		ug/L		96	90 - 110

Lab Sample ID: LCSD 860-159119/105
Matrix: Water
Analysis Batch: 159119

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	96.30		ug/L		96	90 - 110	0	20

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 860-158051/24
Matrix: Water
Analysis Batch: 158051

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<5.00	U	5.00		ug/L			05/01/24 13:16	1

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate (Continued)

Lab Sample ID: LCS 860-158051/26
Matrix: Water
Analysis Batch: 158051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			100	98.36		ug/L		98	90 - 110		

Lab Sample ID: LCSD 860-158051/27
Matrix: Water
Analysis Batch: 158051

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
Cyanide, Total			100	99.42		ug/L		99	90 - 110	1	20

Lab Sample ID: LLCS 860-158051/25
Matrix: Water
Analysis Batch: 158051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			5.00	5.601		ug/L		112	50 - 150		

Lab Sample ID: 870-26179-8 MS
Matrix: Water
Analysis Batch: 158051

Client Sample ID: RCF-041624-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	11.0	H F1	100	92.25	F1	ug/L		81	90 - 110		

Lab Sample ID: 870-26179-8 MSD
Matrix: Water
Analysis Batch: 158051

Client Sample ID: RCF-041624-02
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	11.0	H F1	100	95.37	F1	ug/L		84	90 - 110	3	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 870-19469/1
Matrix: Water
Analysis Batch: 19469

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<2.50	U	2.50		mg/L			04/18/24 16:18	1

Lab Sample ID: LCS 870-19469/2
Matrix: Water
Analysis Batch: 19469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			1000	1030		mg/L		103	80 - 120		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 870-19469/3
Matrix: Water
Analysis Batch: 19469

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
Total Dissolved Solids			1000	1100		mg/L		110	80 - 120	7	10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 870-19407/9
Matrix: Water
Analysis Batch: 19407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	<3.00	U	3.00		ug/L			04/17/24 08:01	1

Lab Sample ID: LCS 870-19407/10
Matrix: Water
Analysis Batch: 19407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium, hexavalent			499	452.5		ug/L		91	85 - 115		

Lab Sample ID: LCSD 870-19407/11
Matrix: Water
Analysis Batch: 19407

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
Chromium, hexavalent			499	449.9		ug/L		90	85 - 115	1	20

QC Association Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

GC/MS VOA

Analysis Batch: 19369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-8	RCF-041624-02	Total/NA	Water	624.1	
MB 870-19369/15	Method Blank	Total/NA	Water	624.1	
LCS 870-19369/13	Lab Control Sample	Total/NA	Water	624.1	
LCSD 870-19369/14	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 155149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	625	
MB 860-155149/1-A	Method Blank	Total/NA	Water	625	
LCS 860-155149/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-155149/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 155462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-155149/2-A	Lab Control Sample	Total/NA	Water	625.1	155149
LCSD 860-155149/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	155149

Analysis Batch: 155592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	625.1	155149
MB 860-155149/1-A	Method Blank	Total/NA	Water	625.1	155149

Prep Batch: 155949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1 - RE	RCF-041624-01	Total/NA	Water	625	
MB 860-155949/1-A	Method Blank	Total/NA	Water	625	
LCS 860-155949/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-155949/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 155987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1 - RE	RCF-041624-01	Total/NA	Water	625.1	155949
MB 860-155949/1-A	Method Blank	Total/NA	Water	625.1	155949
LCS 860-155949/2-A	Lab Control Sample	Total/NA	Water	625.1	155949
LCSD 860-155949/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	155949

GC Semi VOA

Prep Batch: 154991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	3511	
MB 860-154991/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-154991/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-154991/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-154991/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-154991/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 155305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	608	

GC Semi VOA (Continued)

Prep Batch: 155305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-155305/1-A	Method Blank	Total/NA	Water	608	
LCS 860-155305/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-155305/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-155305/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-155305/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 155449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	608.3	155305
MB 860-155305/1-A	Method Blank	Total/NA	Water	608.3	155305
LCS 860-155305/4-A	Lab Control Sample	Total/NA	Water	608.3	155305
LCSD 860-155305/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	155305

Analysis Batch: 155669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	615	154991
MB 860-154991/1-A	Method Blank	Total/NA	Water	615	154991
LCS 860-154991/2-A	Lab Control Sample	Total/NA	Water	615	154991
LCS 860-154991/4-A	Lab Control Sample	Total/NA	Water	615	154991
LCSD 860-154991/3-A	Lab Control Sample Dup	Total/NA	Water	615	154991
LCSD 860-154991/5-A	Lab Control Sample Dup	Total/NA	Water	615	154991

Analysis Batch: 156479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	608.3	155305
MB 860-155305/1-A	Method Blank	Total/NA	Water	608.3	155305
LCS 860-155305/2-A	Lab Control Sample	Total/NA	Water	608.3	155305
LCSD 860-155305/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	155305

HPLC/IC

Analysis Batch: 155066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	300.0	
MB 860-155066/3	Method Blank	Total/NA	Water	300.0	
MB 860-155066/94	Method Blank	Total/NA	Water	300.0	
LCS 860-155066/95	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-155066/96	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-155066/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 155067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	300.0	
MB 860-155067/3	Method Blank	Total/NA	Water	300.0	
MB 860-155067/94	Method Blank	Total/NA	Water	300.0	
LCS 860-155067/95	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-155067/96	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-155067/6	Lab Control Sample	Total/NA	Water	300.0	

HPLC/IC

Prep Batch: 155148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	CWA_Prep	
MB 860-155148/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-155148/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-155148/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 157123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	632	155148
MB 860-155148/1-A	Method Blank	Total/NA	Water	632	155148
LCS 860-155148/2-A	Lab Control Sample	Total/NA	Water	632	155148
LCSD 860-155148/3-A	Lab Control Sample Dup	Total/NA	Water	632	155148

Metals

Prep Batch: 155875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total Recoverable	Water	200.8	
MB 860-155875/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 860-155875/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-155875/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-155875/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 156097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total Recoverable	Water	200.8	155875
MB 860-155875/1-A	Method Blank	Total Recoverable	Water	200.8	155875
LCS 860-155875/2-A	Lab Control Sample	Total Recoverable	Water	200.8	155875
LCSD 860-155875/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	155875
LLCS 860-155875/4-A	Lab Control Sample	Total Recoverable	Water	200.8	155875

Prep Batch: 156396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total Recoverable	Water	200.8	
MB 860-156396/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 860-156396/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-156396/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-156396/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 157911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total Recoverable	Water	200.8	156396
MB 860-156396/1-A	Method Blank	Total Recoverable	Water	200.8	156396
LCS 860-156396/2-A	Lab Control Sample	Total Recoverable	Water	200.8	156396
LCSD 860-156396/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	156396
LLCS 860-156396/4-A	Lab Control Sample	Total Recoverable	Water	200.8	156396

Prep Batch: 669715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-7	RCF-041624-04	Total/NA	Water	1631E	
870-26179-8	RCF-041624-02	Total/NA	Water	1631E	
MB 400-669715/3-A	Method Blank	Total/NA	Water	1631E	

Metals (Continued)

Prep Batch: 669715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-669715/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-669715/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	

Analysis Batch: 669797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-7	RCF-041624-04	Total/NA	Water	1631E	669715
870-26179-8	RCF-041624-02	Total/NA	Water	1631E	669715
MB 400-669715/3-A	Method Blank	Total/NA	Water	1631E	669715
LCS 400-669715/4-A	Lab Control Sample	Total/NA	Water	1631E	669715
LCSD 400-669715/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	669715

General Chemistry

Analysis Batch: 19407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Dissolved	Water	SM 3500 CR B	19408
MB 870-19407/9	Method Blank	Total/NA	Water	SM 3500 CR B	
LCS 870-19407/10	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 870-19407/11	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Filtration Batch: 19408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Dissolved	Water	Filtration	

Analysis Batch: 19469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-6	RCF 041624-03	Total/NA	Water	SM 2540C	
MB 870-19469/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 870-19469/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 870-19469/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	

Analysis Batch: 156189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-1	RCF-041624-01	Total/NA	Water	7196A	

Analysis Batch: 158051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-8	RCF-041624-02	Total/NA	Water	Kelada 01	
MB 860-158051/24	Method Blank	Total/NA	Water	Kelada 01	
LCS 860-158051/26	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 860-158051/27	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
LLCS 860-158051/25	Lab Control Sample	Total/NA	Water	Kelada 01	
870-26179-8 MS	RCF-041624-02	Total/NA	Water	Kelada 01	
870-26179-8 MSD	RCF-041624-02	Total/NA	Water	Kelada 01	

Analysis Batch: 159119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26179-8	RCF-041624-02	Total/NA	Water	420.4	
MB 860-159119/103	Method Blank	Total/NA	Water	420.4	
LCS 860-159119/104	Lab Control Sample	Total/NA	Water	420.4	
LCSD 860-159119/105	Lab Control Sample Dup	Total/NA	Water	420.4	

Lab Chronicle

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Client Sample ID: RCF-041624-01

Lab Sample ID: 870-26179-1

Date Collected: 04/16/24 13:00
Matrix: Water
Date Received: 04/16/24 14:43

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	1.00 mL	155149	04/17/24 15:54	DR	EET HOU
Total/NA	Analysis	625.1		1	1 MJ/Kg	1 MJ/Kg	155592	04/19/24 02:07	PXS	EET HOU
Total/NA	Prep	625	RE		1000 mL	1.00 mL	155949	04/22/24 06:56	DR	EET HOU
Total/NA	Analysis	625.1	RE	1	1 MJ/Kg	1 MJ/Kg	155987	04/23/24 01:27	PXS	EET HOU
Total/NA	Prep	608			1000 mL	1 mL	155305	04/17/24 13:51	BH	EET HOU
Total/NA	Analysis	608.3		1			155449	04/18/24 14:40	WP	EET HOU
Total/NA	Prep	608			1000 mL	1 mL	155305	04/17/24 13:51	BH	EET HOU
Total/NA	Analysis	608.3		1			156479	04/24/24 17:28	KM	EET HOU
Total/NA	Prep	3511			51.9 mL	4 mL	154991	04/17/24 07:00	TH	EET HOU
Total/NA	Analysis	615		1			155669	04/20/24 12:24	KM	EET HOU
Total/NA	Analysis	300.0		1			155066	04/17/24 19:12	WP	EET HOU
Total/NA	Analysis	300.0		10			155067	04/17/24 19:22	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	1 mL	155148	04/16/24 16:30	DR	EET HOU
Total/NA	Analysis	632		1			157123	04/24/24 19:24	YG	EET HOU
Total Recoverable	Prep	200.8			50 mL	50 mL	155875	04/20/24 13:33	AGR	EET HOU
Total Recoverable	Analysis	200.8		1			156097	04/22/24 15:28	DP	EET HOU
Total Recoverable	Prep	200.8			50 mL	50 mL	156396	04/23/24 18:30	MD	EET HOU
Total Recoverable	Analysis	200.8		1			157911	04/29/24 16:49	DP	EET HOU
Total/NA	Analysis	7196A		1			156189	04/26/24 12:27	SC	EET HOU
Dissolved	Filtration	Filtration			10 mL	10 mL	19408	04/17/24 07:40	CGG	EET DAL
Dissolved	Analysis	SM 3500 CR B		1	10 mL	10 mL	19407	04/17/24 08:01	CGG	EET DAL

Client Sample ID: RCF 041624-03

Lab Sample ID: 870-26179-6

Date Collected: 04/16/24 09:00
Matrix: Water
Date Received: 04/16/24 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	200 mL	19469	04/18/24 16:18	KNW	EET DAL

Client Sample ID: RCF-041624-04

Lab Sample ID: 870-26179-7

Date Collected: 04/16/24 09:00
Matrix: Water
Date Received: 04/16/24 14:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	669715	04/18/24 16:35	VLC	EET PEN
							Completed:	04/20/24 11:00 [1]		
Total/NA	Analysis	1631E		1			669797	04/29/24 16:10	VLC	EET PEN

Client Sample ID: RCF-041624-02

Lab Sample ID: 870-26179-8

Date Collected: 04/16/24 13:00
Matrix: Water
Date Received: 04/16/24 14:43

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	19369	04/16/24 23:53	MC	EET DAL

Lab Chronicle

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Client Sample ID: RCF-041624-02
Date Collected: 04/16/24 13:00
Date Received: 04/16/24 14:43

Lab Sample ID: 870-26179-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	669715	04/18/24 16:35	VLC	EET PEN
Total/NA	Analysis	1631E		1			669797	04/29/24 16:17	VLC	EET PEN
Total/NA	Analysis	420.4		1	10 mL	10 mL	159119	05/07/24 22:43	AA	EET HOU
Total/NA	Analysis	Kelada 01		1	10 mL	10 mL	158051	05/01/24 13:35	AA	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

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 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Laboratory: Eurofins Dallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	TX01468_2310	08-31-24
Texas	NELAP	T104704295-23-34	06-30-24

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	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
420.4		Water	Phenols, Total
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	Hexachlorophene
625.1	625	Water	Nonylphenol
625.1	625	Water	Total Cresols
632	CWA_Prep	Water	Diuron
7196A		Water	Chromium, trivalent

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-25

Method Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

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
300.0	Anions, Ion Chromatography	EPA	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
200.8	Metals (ICP/MS)	EPA	EET HOU
420.4	Phenolics, Total Recoverable	EPA	EET HOU
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET HOU
Kelada 01	Cyanide, Total, Acid Dissociable and Thiocyanate	EPA	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DAL
SM 3500 CR B	Chromium, Hexavalent	SM	EET DAL
614	EPA 614 - Organophosphorus Pesticides	EPA	Ana-Lab Co
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
200.8	Preparation, Total Recoverable Metals	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	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
Filtration	Sample Filtration	None	EET DAL

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"
SW846 = "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 75662
EET DAL = Eurofins Dallas, 9701 Harry Hines Blvd, Dallas, TX 75220, TEL (214)902-0300
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EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: City of Garland
Project/Site: Rowlett Creek WWTP (RCF)

Job ID: 870-26179-1
SDG: RCF-041624

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
870-26179-1	RCF-041624-01	Water	04/16/24 13:00	04/16/24 14:43
870-26179-6	RCF 041624-03	Water	04/16/24 09:00	04/16/24 14:43
870-26179-7	RCF-041624-04	Water	04/16/24 09:00	04/16/24 14:43
870-26179-8	RCF-041624-02	Water	04/16/24 13:00	04/16/24 14:43

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Project
1099843

XNKS-N

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

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10:56

TABLE OF CONTENTS

ROWLETT CREEK WWTP

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
1099843_r02_01_ProjectSamples	SPL Kilgore Project P:1099843 C:XNKS Project Sample Cross Reference t:304	1
1099843_r03_03_ProjectResults	SPL Kilgore Project P:1099843 C:XNKS Project Results t:304 PO: 87000659	2
1099843_r03_06_O_ProjectTRRP	SPL Kilgore Project P:1099843 C:XNKS Project TRRP Results Report for Class O	2
1099843_r10_05_ProjectQC	SPL Kilgore Project P:1099843 C:XNKS Project Quality Control Groups	2
1099843_r99_09_CoC__1_of_1	SPL Kilgore CoC XNKS 1099843_1_of_1	3
	Total Pages:	10

Email: Kilgore.ProjectManagement@spllabs.com

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

SAMPLE CROSS REFERENCE

Project
1099843

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ROWLETT CREEK WWTP

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Dallas, TX 75220

Sample	Sample ID	Taken	Time	Received
2291220	*RCI-COMPOSITES (870-26179-1)*	04/16/2024	13:00:00	04/17/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1115274) Volume: 1.00000 mL <== Derived from 01 (1047 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 614	05	1115274	04/19/2024	1116958	04/22/2024

Email: Kilgore.ProjectManagement@spllabs.com

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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Project 1099843

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ROWLETT CREEK WWTP

RESULTS

Sample Results

2291220 RCI-COMPOSITES (870-26179-1) Received: 04/17/2024

Non-Potable Water Collected by: Client Eurofins Xenco PO: 87000659
Taken: 04/16/2024 13:00:00

EPA 614 Prepared: 1115274 04/19/2024 14:15:00 Analyzed 1116958 04/22/2024 20:02:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0478	ug/L	0.0478	D	86-50-0	05
z	Chlorpyrifos	<0.0478	ug/L	0.0478		2921-88-2	05
NELAC	Demeton	<0.0478	ug/L	0.0478		8065-48-3	05
NELAC	Diazinon	<0.0478	ug/L	0.0478		333-41-5	05
NELAC	Malathion	<0.0478	ug/L	0.0478		121-75-5	05
NELAC	Parathion, ethyl	<0.0478	ug/L	0.0478		56-38-2	05
NELAC	Parathion, methyl	<0.0478	ug/L	0.0478		298-00-0	05

Sample Preparation

2291220 RCI-COMPOSITES (870-26179-1) Received: 04/17/2024

87000659

04/16/2024

Prepared: 04/17/2024 19:40:52 Calculated 04/17/2024 19:40:52 CAL

z Environmental Fee (per Project) Verified

Prepared: 05/01/2024 10:13:00 Analyzed 05/01/2024 10:13:00 WJP

z Level IV Data Review Completed

EPA 608.3 Prepared: 1115274 04/19/2024 14:15:00 Analyzed 1115274 04/19/2024 14:15:00 MCC

Solvent Extraction	1/1047	ml		01

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Project 1099843

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Printed: 05/01/2024

2291220 RCI-COMPOSITES (870-26179-1) Received: 04/17/2024

87000659

04/16/2024

EPA 614 Prepared: 1115274 04/19/2024 14:15:00 Analyzed 1116958 04/22/2024 20:02:00 KAP

z Permit Renewal Phos. Pesticides Entered 05

Qualifiers:

D - Duplicate RPD was higher than expected

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
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, MS, VP Technical Services

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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RESULTS

Project
1099843

Printed 05/01/2024
ROWLETT CREEK WWTP

XNKS

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**									**EPA 614**	
2291220	**RCI-COMPOSITES (870-26179-1)**										
		Collection:	04/16/2024	13:00:00	Client				*Received:*	04/17/2024	
	Prepared: ***1115274***			*Analyzed:*	***1116958***	4/22/24	20:02:00				
86-50-0	**Azinphos-methyl (Guthion)**	**ND**	41.4	0.0395	50.0	0.0478	D	**ug/L**	0.100	05	0.00
2921-88-2	**Chlorpyrifos**	**ND**	22.6	0.0216	50.0	0.0478		**ug/L**	0.050	05	0.00
8065-48-3	**Demeton**	**ND**	31.9	0.0305	50.0	0.0478		**ug/L**	0.200	05	0.00
333-41-5	**Diazinon**	**ND**	19.7	0.0188	50.0	0.0478		**ug/L**	0.100	05	0.00
121-75-5	**Malathion**	**ND**	24.8	0.0237	50.0	0.0478		**ug/L**	0.100	05	0.00
56-38-2	**Parathion, ethyl**	**ND**	23.9	0.0228	50.0	0.0478		**ug/L**	0.100	05	0.00
298-00-0	**Parathion, methyl**	**ND**	27.4	0.0262	50.0	0.0478		**ug/L**	0.050	05	0.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQL is the Method Quantitation Limit and corresponds to a low standard
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

RESULTS

Project
1099843

Printed 05/01/2024
ROWLETT CREEK WWTP

XNKS

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

Qualifiers:

D - Duplicate RPD was higher than expected

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

Bill Peery, MS, VP Technical Services

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

XNKS-N

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

Project
1099843

Printed 05/01/2024

Analytical Set 1116958 EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1115274	ND	41.4	50.0	ug/L	126284574
Chlorpyrifos	1115274	ND	22.6	50.0	ug/L	126284574
Demeton	1115274	ND	31.9	50.0	ug/L	126284574
Diazinon	1115274	ND	19.7	50.0	ug/L	126284574
Malathion	1115274	ND	24.8	50.0	ug/L	126284574
Parathion, ethyl	1115274	ND	23.9	50.0	ug/L	126284574
Parathion, methyl	1115274	ND	27.4	50.0	ug/L	126284574

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1030	1000	ug/L	103	37.5 - 164	126284573
Azinphos-methyl (Guthion)	1200	1000	ug/L	120	37.5 - 164	126284579
Chlorpyrifos	1010	1000	ug/L	101	45.4 - 176	126284573
Chlorpyrifos	1170	1000	ug/L	117	45.4 - 176	126284579
Demeton	1020	1000	ug/L	102	58.6 - 150	126284573
Demeton	1110	1000	ug/L	111	58.6 - 150	126284579
Diazinon	1040	1000	ug/L	104	65.4 - 138	126284573
Diazinon	1220	1000	ug/L	122	65.4 - 138	126284579
Malathion	1010	1000	ug/L	101	49.5 - 160	126284573
Malathion	1100	1000	ug/L	110	49.5 - 160	126284579
Parathion, ethyl	1020	1000	ug/L	102	56.0 - 142	126284573
Parathion, ethyl	1150	1000	ug/L	115	56.0 - 142	126284579
Parathion, methyl	1020	1000	ug/L	102	12.6 - 194	126284573
Parathion, methyl	1140	1000	ug/L	114	12.6 - 194	126284579

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1115274	406	636	1000	0.100 - 155	40.6	63.6	ug/L	44.1 *	30.0
Chlorpyrifos	1115274	547	578	1000	3.37 - 129	54.7	57.8	ug/L	5.51	30.0
Demeton	1115274	383	373	1000	0.100 - 109	38.3	37.3	ug/L	2.65	30.0
Diazinon	1115274	435	442	1000	0.100 - 125	43.5	44.2	ug/L	1.60	30.0
Malathion	1115274	531	576	1000	0.100 - 130	53.1	57.6	ug/L	8.13	30.0
Parathion, ethyl	1115274	553	614	1000	0.100 - 122	55.3	61.4	ug/L	10.5	30.0
Parathion, methyl	1115274	506	560	1000	0.100 - 131	50.6	56.0	ug/L	10.1	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	126284573
Tributylphosphate		CCV	1150	2000	ug/L	57.5	0.100 - 106	126284579
Triphenylphosphate		CCV	962	2000	ug/L	48.1	0.100 - 172	126284573
Triphenylphosphate		CCV	1260	2000	ug/L	63.0	0.100 - 172	126284579
Tributylphosphate	1115274	Blank	335	2000	ug/L	16.8	0.100 - 106	126284574
Tributylphosphate	1115274	LCS	515	2000	ug/L	25.8	0.100 - 106	126284575
Tributylphosphate	1115274	LCS Dup	564	2000	ug/L	28.2	0.100 - 106	126284576

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

XNKS-N

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

Project
1099843

Printed 05/01/2024

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Triphenylphosphate	1115274	Blank	383	2000	ug/L	19.2	0.100 - 172	126284574
Triphenylphosphate	1115274	LCS	512	2000	ug/L	25.6	0.100 - 172	126284575
Triphenylphosphate	1115274	LCS Dup	631	2000	ug/L	31.6	0.100 - 172	126284576
Tributylphosphate	2291220	Unknown	0.435	1.91	ug/L	22.8	0.100 - 106	126284577
Triphenylphosphate	2291220	Unknown	0.480	1.91	ug/L	25.1	0.100 - 172	126284577

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / 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 1994 Ref #4 TRADE QA Resources Guide.)

1099843 CoC Print Group 001 of 001

Eurofins Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kimmel, Mike M	Carrier Tracking No(s):	COC No: 870-6037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mike.Kimmel@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Ana-Lab Corporation		Accreditations Required (See note): NELAP - Texas		Job #: 870-26179-1
Address: 2600 Dudley Rd, ,	Due Date Requested: 4/23/2024	Analysis Requested		Preservation Codes:
City: Kilgore	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:
State, Zip: TX, 75662				
Phone:	PO #:			
Email:	WO #:			
Project Name: Rowlett Creek WWTP (RCI)	Project #: 87000659			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	508 (General Subcontract Method)/ 614 Organo-Phosphorus Pesticides	Special Instructions/Note:
RCI-Composites (870-26179-1)	4/16/24	13:00 Central		Water	X	See Attached Instructions 229/220

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		04/16/24 1700		APR 16 2024		
	Relinquished by: Fed Ex	Date/Time: 4/17/24 1654	Company	Received by:	Date/Time: 4/17/24 1658	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: See Attached for Tracking # and Temp

Ver: 06/08/2021

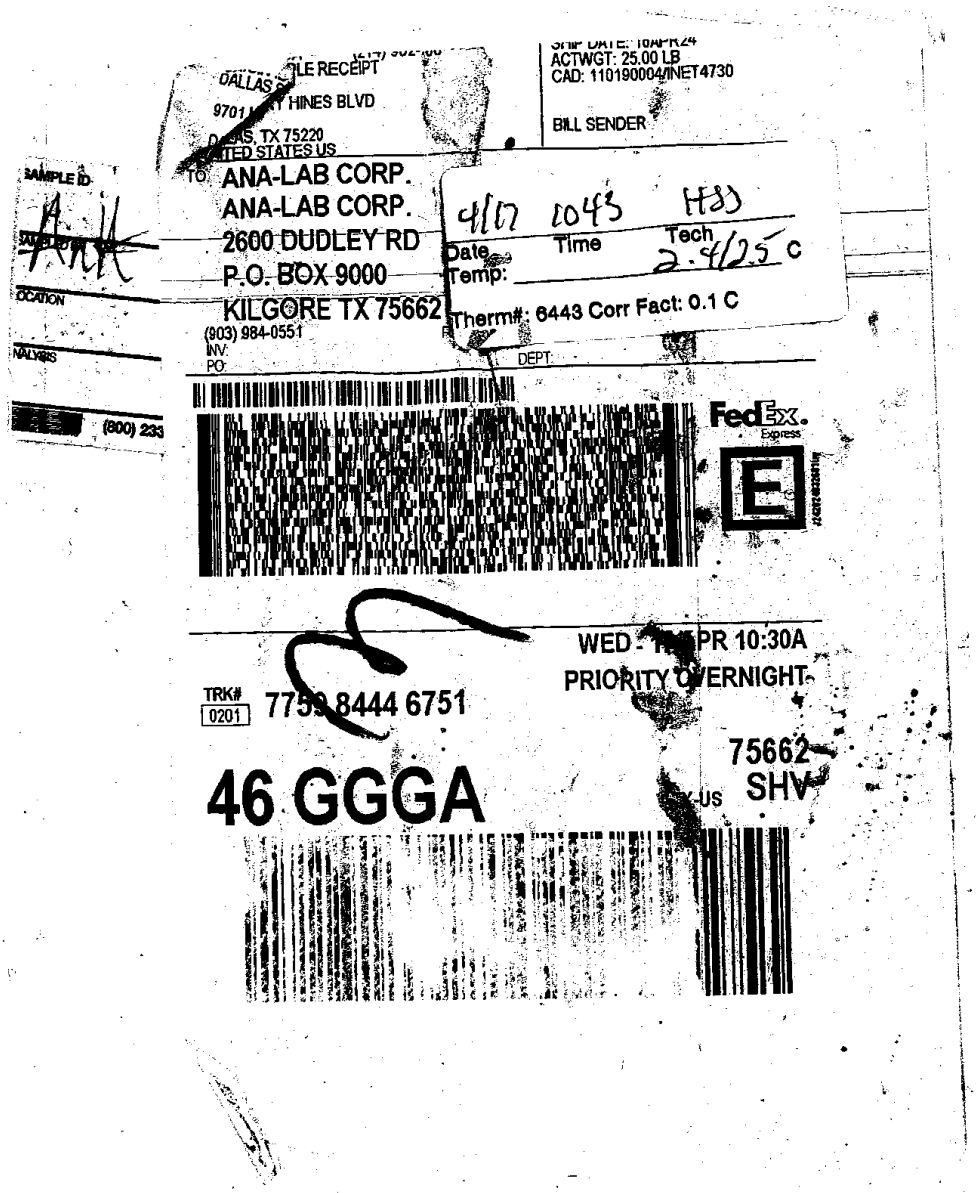
ICOC No:
870-6037

Containers

Count	Container Type	Preservative
2	Amber Glass 1 liter - unpreserved	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (General Subcontract Method)/ 614 Organo-Phosphorus Pesticides	614 Chloropyrifos, Guthion,Parathion,Malathion, Diazinon, Demeton. Must meet MALS


ACTWGT: 25.00 LB
CAD: 110190004/INET4730
BILL SENDER
TO ANA-LAB CORP.
ANA-LAB CORP.
2600 DUDLEY RD
P.O. BOX 9000
KILGORE TX 75662
(903) 984-0551
INV:
PO:
DEPT:
4/17 1043 HSJ
Date Time Tech
Temp: 2.4/25 C
Therm#: 6443 Corr Fact: 0.1 C
FedEx. Express
TRK# 0201 7759 8444 6751
PRIORITY OVERNIGHT
75662
SHV
US
46 GGGA

Chain of Custody

XENCO LABORATORIES
Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

870-26179 Chain of Custody

5/19/2024

Project Manager:	Victor Porras	**Bill to: (if different)**	Joey Martinez
Company Name:	City of Garland	**Company Name:**	Same
Address:	2500 E Centerville Rd.	**Address:**	Same
City, State ZIP:	Garland, TX 75040	**City, State ZIP:**	Same
Phone:	972-205-3819	**Email:**	Joeymartinez@garlandtx.gov

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RC** ☐ **Superfund** ☐
State of Project:
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Rowlett Creek WWTP	**Turn Around**	
Project Number:	RCF-041624	Routine ☐	
Project Location	RCF	Rush:	
Sampler's Name:		Due Date:	
PO #:		**Quote #:**	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	**Wet Ice:**	(Yes) No
Temperature (°C):	0.1/-0.2	**Thermometer ID**	THM-001
Received Intact:	(Yes) No		
Cooler Custody Seals:	(Yes) No N/A	**Correction Factor:**	-0.4
Sample Custody Seals:	Yes No (N/A)	**Total Containers:**	

ANALYSIS REQUEST

Lab ID	Sample Identification	Matrix	Sample Date/Time Start	Sample Date/Time End	Number of Containers	Sample Type: (C) Composite, (G) grab	Pres. Code	200.8 Met (Sb,As,Be,Cd,Cr,Cr-Trivalent, Cu,Pb,Ni,Se,Ag,Tl,Zn (1-250ml HDPE) HN	624.1 TTO (3-40 ml vials unpreserved)	614/8141 OP Pesticides (1-1 Liter Amber)	625.1 SVOC's + Nonyl Phenol (1-1 Liter Amber)	632 Carbamate Pestides (1-1 Liter Amber)	608.3 Pesticides + Mirex and Dicofol (2-1 Liter Amber)	615 Herbicides (2-60 ml vials unrpeserved)	Hexavalent Chrome (1-250 mL HDPE)	EPA 300.0 (FL, CL) (1-250 mL HDPE)	EPA 335.4 Total Cn (1-250 mL HDPE) Na	EPA 1631 Low-Level Hg (2-40 mL vials) (FB = 2-40 mL sterile vial with lab DI H20)	EPA 420.4 Total Phenols (1-250 mL Amber) H2	TDS (1-250 mL HDPE)	Sample Comments
-01	RCF Composites	WW	4/15/24 15:00	4/16/24 13:00	11	C		X		X	X	X	X	X	X	X					
-02a	RCF Grab #1	WW	4/15/24 15:00	4/15/24 15:00	7	G			X								X	X	X		
-02b	RCF Grab #2	WW	4/15/24 21:00	4/15/24 21:00	7	G			X								X	X	X		
-02c	RCF Grab #3	WW	4/16/24 3:00	4/16/24 3:00	7	G			X								X	X	X		
-02d	RCF Grab #4	WW	4/16/24 9:00	4/16/24 9:00	7	G			X								X	X	X		
-03	RCF Grab Sample	WW	4/16/24 9:00	4/16/24 9:00	1	G														X	
-04	LL Hg - Field Blank	WW	4/16/24 9:00	4/16/24 9:00	2	G												X			Field Blank-Low Level Hg
-02	Lab Composites	WW	4/15/24 15:00	4/16/24 13:00					X								X	X	X		RCF Lab Composite

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab Composite Grab samples '1 thru 4' and report as: RCF-041624 -02

Comments/Notes:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Sign/Print)	Received by: (Sign/Print)	Date/Time	Relinquished by: (Sign/Print)	Received by: (Sign/Print)	Date/Time
1	Kaycee Rust / Kaycee Rust		4/16/24 1335	2		4-16-24 1443
3				4		
5				6		

Eurofins Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kimmel, Mike M	Carrier Tracking No(s):	COC No: 870-6043.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mike.Kimmel@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Texas		Job #: 870-26179-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 4/30/2024			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Rowlett Creek WWTP (RCI)	Project #: 87000659			
Site:	SSOW#:			

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E/1631E_Prep E1631E Low Level Hg (Hold)	1631E/1631E_Prep E1631E Low Level Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
RCI-Grab #1 (870-26179-2)	4/15/24	06:00 Central		Water			X		2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #2 (870-26179-3)	4/15/24	12:00 Central		Water			X		2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #3 (870-26179-4)	4/15/24	18:00 Central		Water			X		2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #4 (870-26179-5)	4/16/24	Central		Water			X		2	Composite grab samples 2-5 into lab composite #8.
LL Hg - Field Blank (870-26179-7)	4/16/24	Central		Water				X	2	
Lab Composites (870-26179-8)	4/16/24	13:00 Central		Water				X	2	Composite grab samples 2-5 into lab composite #8.

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FEDEX

Relinquished by:	Date/Time: 04/16/24 1700	Company	Received by: APR 16 2024	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4-17-24 9:40	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8 & IR8

Ver: 06/08/2021

5/19/2024

Eurofins Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kimmel, Mike M	Carrier Tracking No(s):	COC No: 870-6044.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mike.Kimmel@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 870-26179-1
Address: 4145 Greenbriar Dr,	Due Date Requested: 4/23/2024			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Rowlett Creek WWTP (RCI)	Project #: 87000659			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.8/200.8_P_TR (MOD) 200.8 Metals	7196A_CR3/ Trivalent Cr	608.3_PCB/608_Prep_PCB TTO PCB-608.3	608.3_Pest/608_Prep (MOD) TTO 608-Pest	625.1/625_Prep (MOD) 625.1 TTO	632/CWA_Prep 632-Carbamates	616_MOD/3611_Herb_Prep (MOD) E616.1+ Hexachlorophene	300_ORGFM_28D/ (MOD) E300.0_CL_FL	335.4/Distill_CN Total Cyanide (Hold)	420.4_NP/ Phenols_420.4 (Hold)	335.4/Distill_CN Total Cyanide	420.4_NP/ Phenols_420.4	Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
RCI-Composites (870-26179-1)	4/16/24	13:00 Central		Water			X	X	X	X	X	X	X	X					8	Run 1 1 No Prep or analytical dilutiion to meet MAL'S., 1 1 analytical Run. No
RCI-Grab #1 (870-26179-2)	4/15/24	06:00 Central		Water											X	X			2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #2 (870-26179-3)	4/15/24	12:00 Central		Water											X	X			2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #3 (870-26179-4)	4/15/24	18:00 Central		Water											X	X			2	Composite grab samples 2-5 into lab composite #8.
RCI-Grab #4 (870-26179-5)	4/16/24	Central		Water											X	X			2	Composite grab samples 2-5 into lab composite #8.
Lab Composites (870-26179-8)	4/16/24	13:00 Central		Water													X	X	2	Composite grab samples 2-5 into lab composite #8.
																			1	Temp: 33 IR ID:HOU-368 C/F:+0.2 Corrected Temp: 33

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	TPX	Method of Shipment:	
Relinquished by:	Date/Time: 04/16/24-1700	Company	Received by:	Date/Time:		Company
Relinquished by:	Date/Time:	Company	Received by: APR 16 2024 Jeremiah Baker	Date/Time: 4/17/2024 6:00		Company TPX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:		Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.
Cooler Temperature(s) °C and Other Remarks:	

Ver: 06/08/2021

5/19/2024

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26179-1
SDG Number: RCF-041624

Login Number: 26179
List Number: 1
Creator: Dabinett, Ian

List Source: Eurofins Dallas

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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?	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	

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26179-1
SDG Number: RCF-041624

Login Number: 26179
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 04/17/24 10:50 AM

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?	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	

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26179-1
SDG Number: RCF-041624

Login Number: 26179
List Number: 3
Creator: Earnest, Tamantha

List Source: Eurofins Pensacola
List Creation: 04/18/24 10:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	0.8°C IR8
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.	N/A	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Madison Talmage
City of Garland
2500 E. Centerville
Garland, Texas 75040

Generated 6/18/2024 6:59:47 PM

JOB DESCRIPTION

Rowlett Creek Effluent Sampling Event
RCF-050724

JOB NUMBER

870-26789-1

Eurofins Dallas
9701 Harry Hines Blvd
Dallas TX 75220

See page two for job notes and contact information.

my EOL

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
6/18/2024 6:59:47 PM

Authorized for release by
Mike Kimmel, Project Manager
Mike.Kimmel@et.eurofinsus.com
(214)902-0300

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 5
Client Sample Results 6
Surrogate Summary 7
QC Sample Results 8
QC Association Summary 12
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Subcontract Data 18
Chain of Custody 32
Receipt Checklists 35

Definitions/Glossary

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
cn	Refer to Case Narrative for further detail
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
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
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

Job Narrative
870-26789-1

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 5/7/2024 1:38 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 4.3°C.

Subcontract Work
Method General Subcontract Method: This method was subcontracted to Ana-Lab Corporation, EPA 614.1 The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS Semi VOA
Method Organotins_GCMS: The laboratory control sample duplicate (LCSD) for preparation batch 200-204061 and analytical batch 200-204769 recovered outside control limits for the following analyte(s): Monobutyltin. Monobutyltin has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. The laboratory control limits are not based on historical performance and do not indicate expected performance of this analyte by this method. The laboratory does not use the performance of Monobutyltin as the basis for acceptance of the analytical batch. All analytical results, both detects and non-detects, are considered qualitative and are therefore flagged with a "cn" qualifier. The affected samples include: RCF Grabs (870-26789-1) and (LCSD 200-204061/3-A).

Method Organotins_GCMS: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 200-204061 and analytical batch 200-204769 recovered outside control limits for the following analytes: Monobutyltin.

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

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

General Chemistry
Method 1664B_NP: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 4: RCF Grabs (870-26789-1). The sample(s) was preserved to the appropriate pH in the laboratory.

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

Client Sample ID: RCF Grabs

Date Collected: 05/07/24 07:15
Date Received: 05/07/24 13:38

Lab Sample ID: 870-26789-1

Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.0100	U	0.0100		mg/L		05/09/24 15:40	05/10/24 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*31 - 132*	*05/09/24 15:40*	*05/10/24 18:04*	*1*
2-Fluorobiphenyl (Surr)	*69*		*29 - 112*	*05/09/24 15:40*	*05/10/24 18:04*	*1*
2-Fluorophenol (Surr)	*30*		*28 - 114*	*05/09/24 15:40*	*05/10/24 18:04*	*1*
Nitrobenzene-d5 (Surr)	*70*		*15 - 314*	*05/09/24 15:40*	*05/10/24 18:04*	*1*
p-Terphenyl-d14 (Surr)	*94*		*20 - 141*	*05/09/24 15:40*	*05/10/24 18:04*	*1*
Phenol-d5 (Surr)	*21*		*8 - 424*	*05/09/24 15:40*	*05/10/24 18:04*	*1*

Method: TAL SOP Organotins/GCMS - Organotins (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	<0.0441	U	0.0441		ug/L		05/13/24 14:00	06/02/24 17:49	1
Monobutyltin	<0.608	U *- *1 cn	0.608		ug/L		05/13/24 14:00	06/02/24 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tripentyltin	*79*		*15 - 150*	*05/13/24 14:00*	*06/02/24 17:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**109**		0.500		mg/L			05/20/24 20:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<5.71	U	5.71		mg/L			05/10/24 06:59	1
Nitrogen, Kjeldahl (EPA 351.2)	<0.200	U	0.200		mg/L		05/11/24 00:54	05/13/24 20:09	1

Surrogate Summary

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(31-132)	(29-112)	(28-114)	(15-314)	(20-141)	(8-424)
870-26789-1	RCF Grabs	105	69	30	70	94	21
LCS 860-159403/2-A	Lab Control Sample	110	92	56	85	91	35
LCSD 860-159403/3-A	Lab Control Sample Dup	120	94	58	88	94	37
MB 860-159403/1-A	Method Blank	104	91	44	92	92	30

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: Organotins/GCMS - Organotins (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TPTT
Lab Sample ID	Client Sample ID	(15-150)
870-26789-1	RCF Grabs	79
LCS 200-204061/2-A	Lab Control Sample	96
LCSD 200-204061/3-A	Lab Control Sample Dup	94
MB 200-204061/1-A	Method Blank	95

Surrogate Legend

TPTT = Tripentyltin

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-159403/1-A
Matrix: Water
Analysis Batch: 159562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159403

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	<0.0100	U	0.0100		mg/L		05/09/24 15:40	05/10/24 14:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*104*		*31 - 132*	*05/09/24 15:40*	*05/10/24 14:47*	*1*
2-Fluorobiphenyl (Surr)	*91*		*29 - 112*	*05/09/24 15:40*	*05/10/24 14:47*	*1*
2-Fluorophenol (Surr)	*44*		*28 - 114*	*05/09/24 15:40*	*05/10/24 14:47*	*1*
Nitrobenzene-d5 (Surr)	*92*		*15 - 314*	*05/09/24 15:40*	*05/10/24 14:47*	*1*
p-Terphenyl-d14 (Surr)	*92*		*20 - 141*	*05/09/24 15:40*	*05/10/24 14:47*	*1*
Phenol-d5 (Surr)	*30*		*8 - 424*	*05/09/24 15:40*	*05/10/24 14:47*	*1*

Lab Sample ID: LCS 860-159403/2-A
Matrix: Water
Analysis Batch: 159562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159403

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
3 & 4 Methylphenol			0.0400	0.02885		mg/L		72	14 - 176		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*110*		*31 - 132*
2-Fluorobiphenyl (Surr)	*92*		*29 - 112*
2-Fluorophenol (Surr)	*56*		*28 - 114*
Nitrobenzene-d5 (Surr)	*85*		*15 - 314*
p-Terphenyl-d14 (Surr)	*91*		*20 - 141*
Phenol-d5 (Surr)	*35*		*8 - 424*

Lab Sample ID: LCSD 860-159403/3-A
Matrix: Water
Analysis Batch: 159562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159403

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3 & 4 Methylphenol			0.0400	0.03024		mg/L		76	14 - 176	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*120*		*31 - 132*
2-Fluorobiphenyl (Surr)	*94*		*29 - 112*
2-Fluorophenol (Surr)	*58*		*28 - 114*
Nitrobenzene-d5 (Surr)	*88*		*15 - 314*
p-Terphenyl-d14 (Surr)	*94*		*20 - 141*
Phenol-d5 (Surr)	*37*		*8 - 424*

Method: Organotins/GCMS - Organotins (GC/MS)

Lab Sample ID: MB 200-204061/1-A
Matrix: Water
Analysis Batch: 204769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	<0.0450	U	0.0450		ug/L		05/13/24 14:00	06/02/24 17:28	1

Method: Organotins/GCMS - Organotins (GC/MS) (Continued)

Lab Sample ID: MB 200-204061/1-A
Matrix: Water
Analysis Batch: 204769

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 204061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Monobutyltin	<0.620	U	0.620		ug/L		05/13/24 14:00	06/02/24 17:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tripentyltin	*95*		*15 - 150*	*05/13/24 14:00*	*06/02/24 17:28*	*1*

Lab Sample ID: LCS 200-204061/2-A
Matrix: Water
Analysis Batch: 204769

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 204061

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Tributyltin			0.445	0.3125		ug/L		70	30 - 150		
Monobutyltin			1.55	<0.620	U	ug/L		11	10 - 48		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tripentyltin	*96*		*15 - 150*

Lab Sample ID: LCSD 200-204061/3-A
Matrix: Water
Analysis Batch: 204769

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 204061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tributyltin			0.445	0.3106		ug/L		70	30 - 150	1	30
Monobutyltin			1.55	<0.620	U *- *1 cn	ug/L		1	10 - 48	158	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tripentyltin	*94*		*15 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-161240/3
Matrix: Water
Analysis Batch: 161240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.500	U	0.500		mg/L			05/20/24 12:50	1

Lab Sample ID: MB 860-161240/39
Matrix: Water
Analysis Batch: 161240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.500	U	0.500		mg/L			05/20/24 19:06	1

Lab Sample ID: LCS 860-161240/40
Matrix: Water
Analysis Batch: 161240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.430		mg/L		94	90 - 110		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 860-161240/41
Matrix: Water
Analysis Batch: 161240

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
Sulfate	10.0	9.447		mg/L		94	90 - 110	0	20

Lab Sample ID: LLCS 860-161240/7
Matrix: Water
Analysis Batch: 161240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.4393	J	mg/L		88	50 - 150

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 870-19941/1
Matrix: Water
Analysis Batch: 19941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<5.00	U	5.00		mg/L			05/10/24 06:59	1

Lab Sample ID: LCS 870-19941/2
Matrix: Water
Analysis Batch: 19941

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	35.20		mg/L		88	78 - 114

Lab Sample ID: LCSD 870-19941/3
Matrix: Water
Analysis Batch: 19941

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	32.60		mg/L		81	78 - 114	8	11

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-159719/4-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.200	U	0.200		mg/L		05/10/24 23:11	05/13/24 19:27	1

Lab Sample ID: LCS 860-159719/6-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrogen, Kjeldahl	2.00	2.018		mg/L		101	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCSD 860-159719/7-A
Matrix: Water
Analysis Batch: 160081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl			2.00	2.032		mg/L		102	90 - 110	1	20

GC/MS Semi VOA

Prep Batch: 159403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	625	
MB 860-159403/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-159403/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-159403/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 159562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	625.1	159403
MB 860-159403/1-A	Method Blank	Total/NA	Water	625.1	159403
LCS 860-159403/2-A	Lab Control Sample	Total/NA	Water	625.1	159403
LCSD 860-159403/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	159403

Prep Batch: 204061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	3510C	
MB 200-204061/1-A	Method Blank	Total/NA	Water	3510C	
LCS 200-204061/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 200-204061/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 204769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	Organotins/GCMS	204061
MB 200-204061/1-A	Method Blank	Total/NA	Water	Organotins/GCMS	204061
LCS 200-204061/2-A	Lab Control Sample	Total/NA	Water	Organotins/GCMS	204061
LCSD 200-204061/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins/GCMS	204061

HPLC/IC

Analysis Batch: 161240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	300.0	
MB 860-161240/3	Method Blank	Total/NA	Water	300.0	
MB 860-161240/39	Method Blank	Total/NA	Water	300.0	
LCS 860-161240/40	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-161240/41	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-161240/7	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 19941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	1664B	
MB 870-19941/1	Method Blank	Total/NA	Water	1664B	
LCS 870-19941/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 870-19941/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Prep Batch: 159719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	351.2	

General Chemistry (Continued)

Prep Batch: 159719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-159719/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-159719/6-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-159719/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	

Analysis Batch: 160081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
870-26789-1	RCF Grabs	Total/NA	Water	351.2	159719
MB 860-159719/4-A	Method Blank	Total/NA	Water	351.2	159719
LCS 860-159719/6-A	Lab Control Sample	Total/NA	Water	351.2	159719
LCSD 860-159719/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	159719

Lab Chronicle

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Client Sample ID: RCF Grabs

Date Collected: 05/07/24 07:15
Date Received: 05/07/24 13:38

Lab Sample ID: 870-26789-1

Matrix: Water

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	1.00 mL	159403	05/09/24 15:40	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	159562	05/10/24 18:04	AN	EET HOU
Total/NA	Prep	3510C			1020 mL	5 mL	204061	05/13/24 14:00	KP	EET BUR
							Completed:	05/13/24 14:45 [1]		
Total/NA	Analysis	Organotins/GCMS		1	100 uL	100 uL	204769	06/02/24 17:49	A1B	EET BUR
Total/NA	Analysis	300.0		1			161240	05/20/24 20:25	A1S	EET HOU
Total/NA	Analysis	1664B		1	875 mL	1000 mL	19941	05/10/24 06:59	CGG	EET DAL
Total/NA	Prep	351.2			20 mL	20 mL	159719	05/11/24 00:54	MLEI	EET HOU
Total/NA	Analysis	351.2		1			160081	05/13/24 20:09	LD	EET HOU

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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

Accreditation/Certification Summary

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Laboratory: Eurofins Dallas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	TX01468_2310	08-31-24
Texas	NELAP	T104704295-23-34	06-30-24

Laboratory: Eurofins Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-26
Connecticut	State	PH-0751	09-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-19-25
Florida	NELAP	E87467	06-30-24
Minnesota	NELAP	050-999-436	12-31-24
New Hampshire	NELAP	2006	12-18-24
New Jersey	NELAP	VT972	06-30-24
New York	NELAP	10391	03-31-25
Pennsylvania	NELAP	68-00489	04-30-25
Rhode Island	State	LAO00298	12-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00272	12-19-26
Vermont	State	VT4000	02-10-25
Virginia	NELAP	460209	12-14-24
Wisconsin	State	399140830	08-31-24

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	05-21-24

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
625.1	625	Water	3 & 4 Methylphenol

Method Summary

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET HOU
Organotins/GCMS	Organotins (GC/MS)	TAL SOP	EET BUR
300.0	Anions, Ion Chromatography	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET DAL
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
614	EPA 614 - Organophosphorus Pesticides	EPA	Ana-Lab Co
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET BUR
625	Liquid-Liquid Extraction	EPA	EET HOU

Protocol References:

1664B = EPA-821-98-002
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

Ana-Lab Co = Ana-Lab Corporation, 2600 Dudley Rd, Kilgore, TX 75662
EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990
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

Sample Summary

Client: City of Garland
Project/Site: Rowlett Creek Effluent Sampling Event

Job ID: 870-26789-1
SDG: RCF-050724

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
870-26789-1	RCF Grabs	Water	05/07/24 07:15	05/07/24 13:38

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Office: 903-984-0551 * Fax: 903-984-5914

Project
1106064

XNKS-N

Eurofins Xenco
John Builes
9701 Harry Hines Blvd
Dallas, TX 75220

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8:41

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
1106064_r02_01_ProjectSamples	SPL Kilgore Project P:1106064 C:XNKS Project Sample Cross Reference t:304	1
1106064_r03_03_ProjectResults	SPL Kilgore Project P:1106064 C:XNKS Project Results t:304 PO: US1312966443	2
1106064_r03_06_O_ProjectTRRP	SPL Kilgore Project P:1106064 C:XNKS Project TRRP Results Report for Class O	2
1106064_r10_05_ProjectQC	SPL Kilgore Project P:1106064 C:XNKS Project Quality Control Groups	2
1106064_r99_09_CoC__1_of_1	SPL Kilgore CoC XNKS 1106064_1_of_1	6
	Total Pages:	13

Email: Kilgore.ProjectManagement@spllabs.com

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2305538	*870-26789-1*	05/07/2024	07:15:00	06/07/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1123136) Volume: 1.00000 mL <== Derived from 01 (1047 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 614	02	1123136	06/10/2024	1124070	06/12/2024

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RESULTS

Sample Results

2305538 870-26789-1 — Received: 06/07/2024

Non-Potable Water — Collected by: Client — Eurofins Xenco — PO: US1312966443

Taken: 05/07/2024 07:15:00

All info taken from bottle.

EPA 614 — Prepared: 1123136 06/10/2024 14:30:00 — Analyzed 1124070 06/12/2024 18:30:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0478	ug/L	0.0478		86-50-0	02
z	Chlorpyrifos	<0.0478	ug/L	0.0478		2921-88-2	02
NELAC	Demeton	<0.0478	ug/L	0.0478		8065-48-3	02
NELAC	Diazinon	<0.0478	ug/L	0.0478		333-41-5	02
NELAC	Malathion	<0.0478	ug/L	0.0478		121-75-5	02
NELAC	Parathion, ethyl	<0.0478	ug/L	0.0478		56-38-2	02
NELAC	Parathion, methyl	<0.0478	ug/L	0.0478		298-00-0	02

Sample Preparation

2305538 870-26789-1 — Received: 06/07/2024

US1312966443

05/07/2024

Prepared: 06/07/2024 10:12:00 — Calculated 06/07/2024 10:12:00 CAL

z	Environmental Fee (per Project)	Verified

Prepared: 06/17/2024 08:24:00 — Analyzed 06/17/2024 08:24:00 WJP

z	Level IV Data Review	Completed

EPA 608.3 — Prepared: 1123136 06/10/2024 14:30:00 — Analyzed 1123136 06/10/2024 14:30:00 CRS

Solvent Extraction	1/1047	ml	01

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2305538 870-26789-1

Received: 06/07/2024

US1312966443

05/07/2024

EPA 614 Prepared: 1123136 06/10/2024 14:30:00 Analyzed 1124070 06/12/2024 18:30:00 KAP

z Permit Renewal Phos. Pesticides Entered 02

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
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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RESULTS

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**									**EPA 614**	
2305538	**870-26789-1**										
		Collection:	05/07/2024	07:15:00	Client				*Received:*	06/07/2024	
All info taken from bottle.											
Prepared:	***1123136***			*Analyzed:*	***1124070***			6/12/24	18:30:00		
86-50-0	**Azinphos-methyl (Guthion)**	**ND**	41.4	0.0395	50.0	0.0478		**ug/L**	0.100	02	0.00
2921-88-2	**Chlorpyrifos**	**ND**	22.6	0.0216	50.0	0.0478		**ug/L**	0.050	02	0.00
8065-48-3	**Demeton**	**ND**	31.9	0.0305	50.0	0.0478		**ug/L**	0.200	02	0.00
333-41-5	**Diazinon**	**ND**	19.7	0.0188	50.0	0.0478		**ug/L**	0.100	02	0.00
121-75-5	**Malathion**	**ND**	24.8	0.0237	50.0	0.0478		**ug/L**	0.100	02	0.00
56-38-2	**Parathion, ethyl**	**ND**	23.9	0.0228	50.0	0.0478		**ug/L**	0.100	02	0.00
298-00-0	**Parathion, methyl**	**ND**	27.4	0.0262	50.0	0.0478		**ug/L**	0.050	02	0.00

MDL is Method Detection Limit (40 CFR 136 Appendix B)
SDL is Sample Detection Limit and is the adjusted MDL (sample specific dilutions, dry weight)
MQL is the Method Quantitation Limit and corresponds to a low standard
MQLADJ is the Adjusted Method Quantitation Limit (dilutions, dry weight)

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Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
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These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.

Bill Peery

Bill Peery, MS, VP Technical Services

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QUALITY CONTROL

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Analytical Set 1124070 EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1123136	ND	41.4	50.0	ug/L	126449439
Chlorpyrifos	1123136	ND	22.6	50.0	ug/L	126449439
Demeton	1123136	ND	31.9	50.0	ug/L	126449439
Diazinon	1123136	ND	19.7	50.0	ug/L	126449439
Malathion	1123136	ND	24.8	50.0	ug/L	126449439
Parathion, ethyl	1123136	ND	23.9	50.0	ug/L	126449439
Parathion, methyl	1123136	ND	27.4	50.0	ug/L	126449439

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Azinphos-methyl (Guthion)	1100	1000	ug/L	110	37.5 - 164		126449429
Azinphos-methyl (Guthion)	1740	1000	ug/L	174	37.5 - 164	*	126449438
Azinphos-methyl (Guthion)	1780	1000	ug/L	178	37.5 - 164	*	126449443
Chlorpyrifos	1050	1000	ug/L	105	45.4 - 176		126449429
Chlorpyrifos	1170	1000	ug/L	117	45.4 - 176		126449438
Chlorpyrifos	1190	1000	ug/L	119	45.4 - 176		126449443
Demeton	1030	1000	ug/L	103	58.6 - 150		126449429
Demeton	1220	1000	ug/L	122	58.6 - 150		126449438
Demeton	1230	1000	ug/L	123	58.6 - 150		126449443
Diazinon	1040	1000	ug/L	104	65.4 - 138		126449429
Diazinon	1230	1000	ug/L	123	65.4 - 138		126449438
Diazinon	1140	1000	ug/L	114	65.4 - 138		126449443
Malathion	1050	1000	ug/L	105	49.5 - 160		126449429
Malathion	1120	1000	ug/L	112	49.5 - 160		126449438
Malathion	1120	1000	ug/L	112	49.5 - 160		126449443
Parathion, ethyl	1060	1000	ug/L	106	56.0 - 142		126449429
Parathion, ethyl	1090	1000	ug/L	109	56.0 - 142		126449438
Parathion, ethyl	1090	1000	ug/L	109	56.0 - 142		126449443
Parathion, methyl	1110	1000	ug/L	111	12.6 - 194		126449429
Parathion, methyl	1080	1000	ug/L	108	12.6 - 194		126449438
Parathion, methyl	1090	1000	ug/L	109	12.6 - 194		126449443

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1123136	844	797	1000	0.100 - 155	84.4	79.7	ug/L	5.73	30.0
Chlorpyrifos	1123136	513	532	1000	3.37 - 129	51.3	53.2	ug/L	3.64	30.0
Demeton	1123136	422	443	1000	0.100 - 109	42.2	44.3	ug/L	4.86	30.0
Diazinon	1123136	438	471	1000	0.100 - 125	43.8	47.1	ug/L	7.26	30.0
Malathion	1123136	483	523	1000	0.100 - 130	48.3	52.3	ug/L	7.95	30.0
Parathion, ethyl	1123136	463	521	1000	0.100 - 122	46.3	52.1	ug/L	11.8	30.0
Parathion, methyl	1123136	389	436	1000	0.100 - 131	38.9	43.6	ug/L	11.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	126449429
Tributylphosphate		CCV	1140	2000	ug/L	57.0	0.100 - 106	126449438
Tributylphosphate		CCV	1150	2000	ug/L	57.5	0.100 - 106	126449443
Triphenylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 172	126449429
Triphenylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 172	126449438
Triphenylphosphate		CCV	1120	2000	ug/L	56.0	0.100 - 172	126449443
Tributylphosphate	1123136	Blank	580	2000	ug/L	29.0	0.100 - 106	126449439
Tributylphosphate	1123136	LCS	576	2000	ug/L	28.8	0.100 - 106	126449440
Tributylphosphate	1123136	LCS Dup	616	2000	ug/L	30.8	0.100 - 106	126449441
Triphenylphosphate	1123136	Blank	561	2000	ug/L	28.0	0.100 - 172	126449439
Triphenylphosphate	1123136	LCS	546	2000	ug/L	27.3	0.100 - 172	126449440
Triphenylphosphate	1123136	LCS Dup	599	2000	ug/L	30.0	0.100 - 172	126449441
Tributylphosphate	2305538	Unknown	0.413	1.91	ug/L	21.6	0.100 - 106	126449442
Triphenylphosphate	2305538	Unknown	0.410	1.91	ug/L	21.5	0.100 - 172	126449442

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / 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 1994 Ref #4 TRADE QA Resources Guide.)

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Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kimmel, Mike M	Carrier Tracking No(s):	COC No: 870-6202.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mike.Kimmel@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Ana-Lab Corporation		Accreditations Required (See note): NELAP - Texas		Job #: 870-26790-1
Address: 2600 Dudley Rd, ,	Due Date Requested: 5/15/2024	Analysis Requested		Preservation Codes: -
City: Kilgore	TAT Requested (days):			
State, Zip: TX, 75662				
Phone:	PO #:			
Email:	WO #:			
Project Name: Duck Creek Effluent Sampling Event	Project #: 87000659			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (General Subcontract Method) EPA 614.1	Total Number of containers	Special Instructions/Note:
DCF Grabs (870-26790-1) 270701	5/7/24	08:30 Central		Water				X		See Attached Instructions

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: FEDEX Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:			MAY 07 2024	1700	
Relinquished by: Fedex	Date/Time: 5/10/24 1700	Company	Received by: Misty Quinn	Date/Time: 5/8/24 1040	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

ICOC No:
870-6201

Containers

Count	Container Type	Preservative
1	Amber Glass 1 liter - unpreserved	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (General Subcontract Method)/ EPA 614.1	EPA 614.1 Demeton(O&S) only

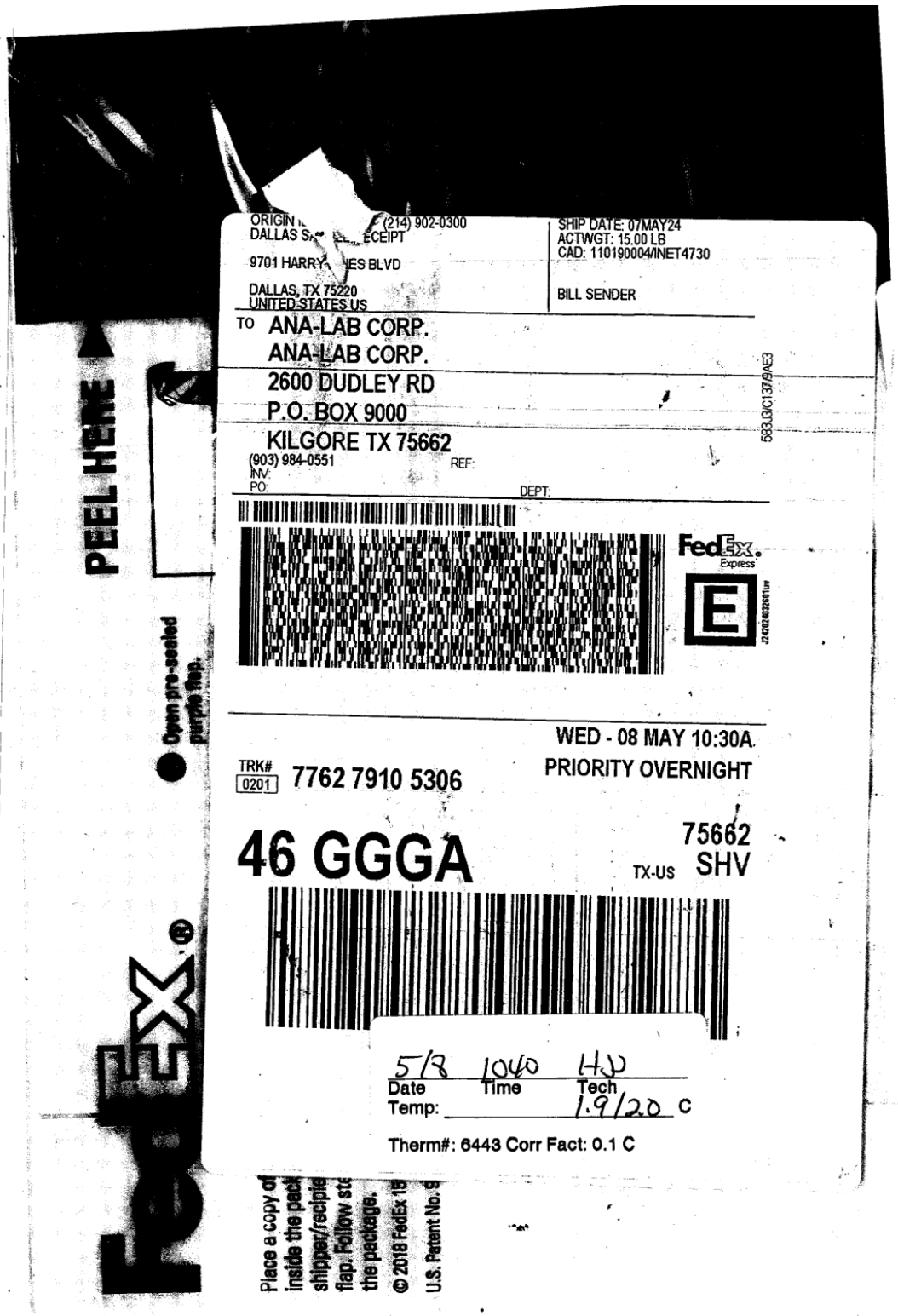
ICOC No:
870-6202

Containers

Count	Container Type	Preservative
1	Amber Glass 1 liter - unpreserved	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (General Subcontract Method)/ EPA 614.1	EPA 614.1 Demeton(O&S) only


PEEL HERE
Open pre-sealed purple flap.
ORIGIN (214) 902-0300
DALLAS S ECEIPT
9701 HARRY ES BLVD
DALLAS, TX 75220
UNITED STATES US
SHIP DATE: 07MAY24
ACTWGT: 15.00 LB
CAD: 110190004/INET4730
BILL SENDER
TO ANA-LAB CORP.
ANA-LAB CORP.
2600 DUDLEY RD
P.O. BOX 9000
KILGORE TX 75662
(903) 984-0551
INV:
PO:
REF:
DEPT:
583J/C137/9AE3
FedEx Express
WED - 08 MAY 10:30A
PRIORITY OVERNIGHT
TRK# 0201 7762 7910 5306
46 GGGA
75662
TX-US SHV
5/8 1040 HJ
Date Time Tech
Temp: 1.9/20 C
Therm#: 6443 Corr Fact: 0.1 C
Place a copy of
inside the pack
shipper/recipie
flap. Follow sta
the package.
© 2018 FedEx 18
U.S. Patent No.

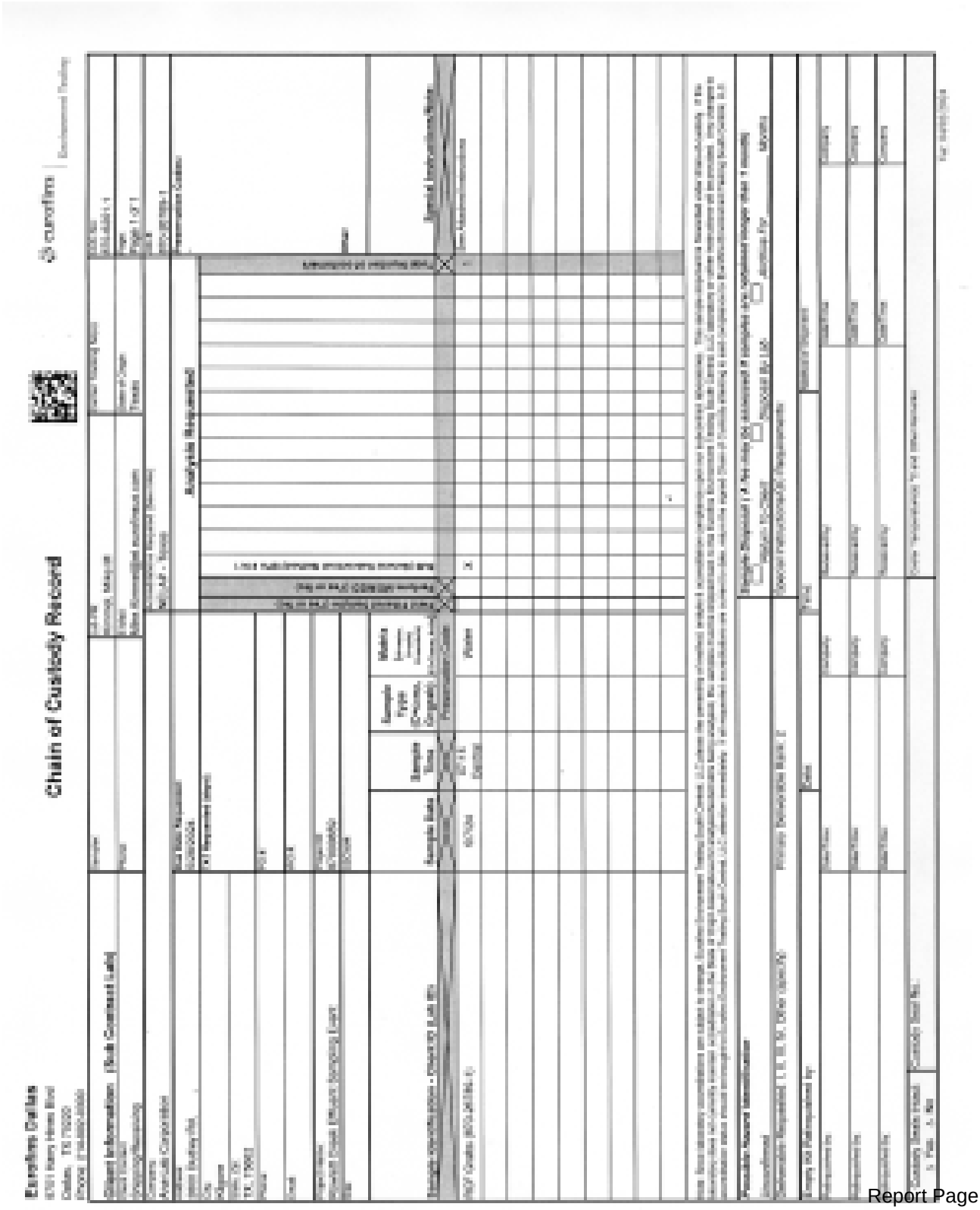
ICOC No:
870-6201

Containers

Count	Container Type	Preservative
1	Amber Glass 1 liter - unpreserved	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB (General Subcontract Method)/ EPA 614.1	EPA 614.1 Demeton(O&S) only


Chain of Custody Record

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.eurofinsus.com/Env

Work Order No: _____ Page 1 of 1

Project Manager:	Victor Porras	**Bill to: (if different)**	Joey Martinez
Company Name:	City of Garland	**Company Name:**	Same
Address:	2500 E Centerville Rd.	**Address:**	Same
City, State ZIP:	Garland, TX 75040	**City, State ZIP:**	Same
Phone:	972-205-2867	**Email:**	JoeyMartinez@garlandtx.gov

Work Order Comments

Program: UST/PST ☐ RP ☐ Brownfields RRC Sup☐fund ☐ ☐
State of Project:
Reporting:Level II ☐ evel III ☐ ST/UST TRRP Le☐l IV ☐ ☐
Deliverables: EDD ☐ ADaPT _____ Other:

Project Name:	Rowlett Creek Effluent Sampling Event	**Turn Around**	
Project Number:	RCF-050724	Routine ☐	
Project Location	RCF	Rush:	
Sampler's Name:	Victor Porras	Due Date:	
PO #:		**Quote #:**	

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	4.8/4.3	Thermometer ID	THM002
Received Intact:	Yes No	Correction Factor:	-0.1
Cooler Custody Seals:	Yes No N/A	Total Containers:	
Sample Custody Seals:	Yes No N/A		

ANALYSIS REQUEST

Preservative Codes

MeOH: Me

870-26789 Chain of Custody

ł: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Lab ID	Sample Identification	Matrix	Sample Date/Time Start	Sample Date/Time End	Number of Containers	Sample Type: (C) Composite, (G) grab	NO	H2	NO	NO	HL	NO	Sample Comments
							Organotins_GCMS - Tributyltin by GC/MS	351.2 - Total Kjeldahl Nitrogen (TKN)	300_ORGFM_28D - E300.0 SO4	625.1 - 625.1 TTO-O-Cresol	1664B_NP - EPA 1664	SUBCONTRACT - EPA 614.1	
-01	RCF Grabs	WW	5/7/24 7:15	5/7/24 7:15	8	G	X	X	X	X	X	X	

Comments/Notes:

~~Total 200.7 / 6010 200.8 / 6020:~~ 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

~~Circle Method(s) and Metal(s) to be analyzed~~ **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Sign/Print)	Received by: (Sign/Print)	Date/Time		Relinquished by: (Sign/Print)	Received by: (Sign/Print)	Date/Time
1	Victor Porras	Marlen Martinez	5/7/24 1240	2	Hot Shot		
3				4			
5				6			

Eurofins Dallas
9701 Harry Hines Blvd
Dallas, TX 75220
Phone: 214-902-0300

Chain of Custody Record

rofins | Environment Testing

870-26789 Chain of Custody

99 1

Texas

Page 1 of 1

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kimmel, Mike M	
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mike.Kimmel@et.eurofinsus.com	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas	Job #: 870-26789-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 5/15/2024		Preservation Codes: -
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: Rowlett Creek Effluent Sampling Event	Project #: 87000659		
Site:	SSOW#:		Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Organotins_GCMS/3510C (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
RCF Grabs (870-26789-1)	5/7/24	07 15 Central		Water			X	2	Tributyltin

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment: FEDEX

Relinquished by:	Date/Time: 05/07/24 1700	Company	Received by:	Date/Time: MAY 07 2024	Company	
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 5/8/24 1030	Company: EMAB	
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

6/18/2024

ORIGIN ID:KIPA (214) 902-0300
DALLAS SAMPLE RECEIPT

9701 HARRY HINES BLVD

DALLAS, TX 75220
UNITED STATES US

SHIP DATE: 07MAY24
ACTWGT: 30.00 LB
CAD: 110190004/INET4730

BILL SENDER

TO TEST AMERICA - BURLINGTON
TEST AMERICA - BURLINGTON
530 COMMUNITY DRIVE

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF
INV:
PO: DEPT.

5R3J3/C1370/AE3

FedEx Express

WED - 08 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7762 7910 1230

NX BTVA

VT-US 05403 BTV

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26789-1
SDG Number: RCF-050724

Login Number: 26789
List Number: 1
Creator: Dabinett, Ian

List Source: Eurofins Dallas

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
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").	N/A	

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26789-1
SDG Number: RCF-050724

Login Number: 26789
List Number: 3
Creator: Muniz, Luca

List Source: Eurofins Burlington
List Creation: 05/09/24 08:48 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
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	2.6ºC
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	Received project as a subcontract.
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.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: City of Garland

Job Number: 870-26789-1
SDG Number: RCF-050724

Login Number: 26789
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 05/08/24 10:10 AM

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?	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	

ATTACHMENT WS-5-0-3

Summary of WET Test Results

Worksheet 5.0 Section 3

Summary of Biomonitoring Results - Chronic

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal	Results
1/9/2020	Ceriodaphnia dubia	100.00%	100.00%	Pass
1/9/2020	Pimephales promelas	100.00%	100.00%	Pass
2/6/2020	Pimephales promelas	100.00%	100.00%	Pass
9/10/2020	Ceriodaphnia dubia	100.00%	100.00%	Pass
9/10/2020	Pimephales promelas	100.00%	100.00%	Pass
12/10/2020	Ceriodaphnia dubia	100.00%	100.00%	Pass
12/10/2020	Pimephales promelas	100.00%	100.00%	Pass
3/19/2020	Pimephales promelas	100.00%	100.00%	Pass
4/2/2020	Pimephales promelas	100.00%	100.00%	Pass
3/6/2021	Ceriodaphnia dubia	100.00%	100.00%	Pass
3/6/2021	Pimephales promelas	100.00%	100.00%	Pass
4/22/2021	Ceriodaphnia dubia	100.00%	100.00%	Pass
4/22/2021	Pimephales promelas	100.00%	100.00%	Pass
7/29/2021	Ceriodaphnia dubia	100.00%	100.00%	Pass
7/29/2021	Pimephales promelas	100.00%	100.00%	Pass
10/21/2021	Ceriodaphnia dubia	100.00%	100.00%	Pass
10/21/2021	Pimephales promelas	100.00%	100.00%	Pass
1/20/2022	Ceriodaphnia dubia	100.00%	100.00%	Pass
1/20/2022	Pimephales promelas	100.00%	100.00%	Pass
5/12/2022	Ceriodaphnia dubia	100.00%	100.00%	Pass
5/12/2022	Pimephales promelas	100.00%	100.00%	Pass
7/28/2022	Ceriodaphnia dubia	100.00%	100.00%	Pass
7/28/2022	Pimephales promelas	100.00%	100.00%	Pass
10/20/2022	Ceriodaphnia dubia	100.00%	100.00%	Pass
10/20/2022	Pimephales promelas	100.00%	100.00%	Pass
4/27/2023	Ceriodaphnia dubia	100.00%	100.00%	Pass
4/27/2023	Pimephales promelas	100.00%	100.00%	Pass
7/27/2023	Ceriodaphnia dubia	100.00%	100.00%	Pass
7/27/2023	Pimephales promelas	100.00%	100.00%	Pass
10/19/2023	Ceriodaphnia dubia	100.00%	100.00%	Pass
10/19/2023	Pimephales promelas	100.00%	100.00%	Pass
4/27/2023	Ceriodaphnia dubia	100.00%	100.00%	Pass
4/27/2023	Pimephales promelas	100.00%	100.00%	Pass
1/26/2023	Ceriodaphnia dubia	100.00%	100.00%	Pass
1/26/2023	Pimephales promelas	100.00%	100.00%	Pass
3/21/2024	Ceriodaphnia dubia	100.00%	100.00%	Pass
3/21/2024	Pimephales promelas	100.00%	100.00%	Pass
4/18/2024	Ceriodaphnia dubia	100.00%	100.00%	Pass
4/18/2024	Pimephales promelas	100.00%	100.00%	Pass

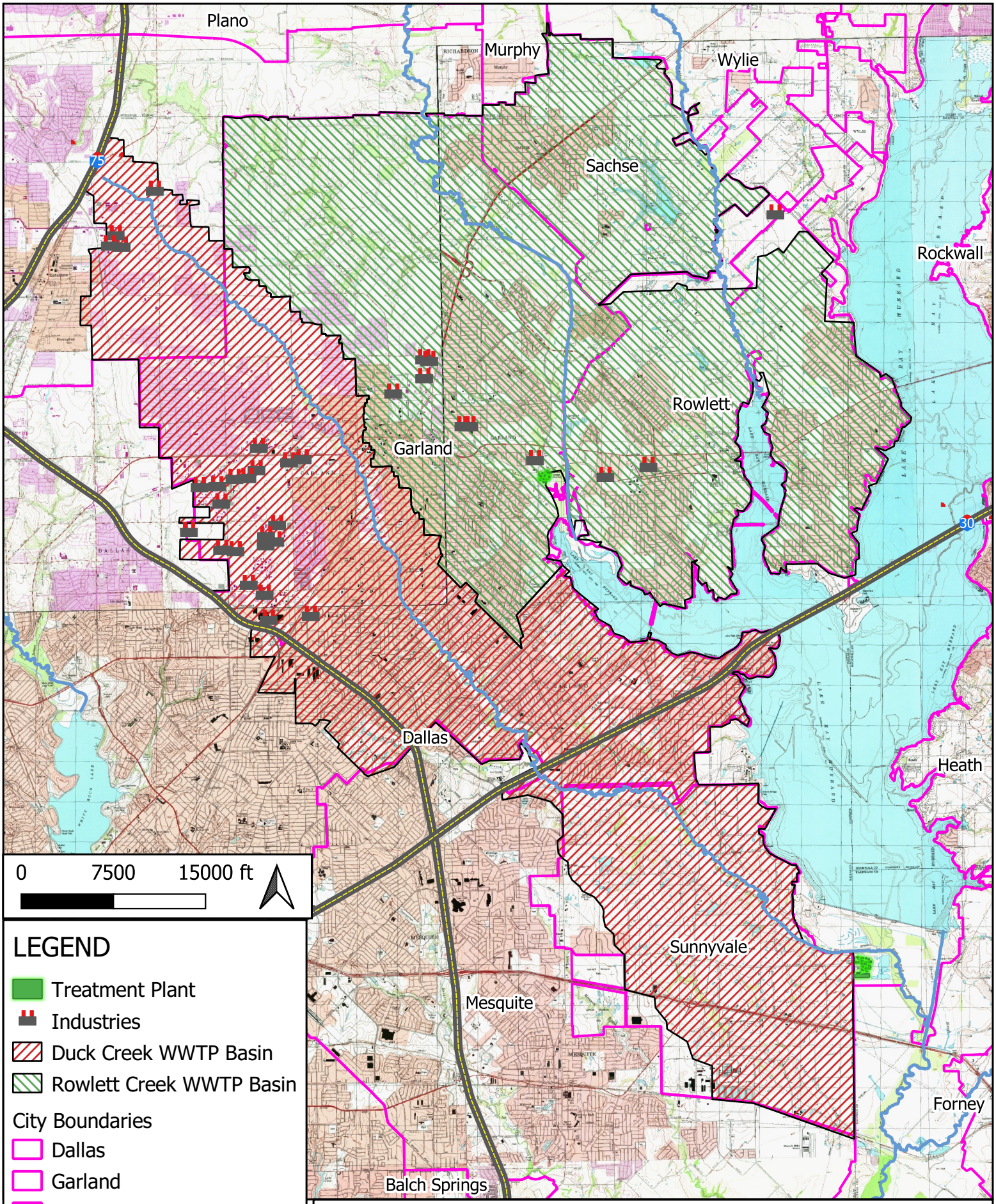
Summary of Biomonitoring Results - 24-Hour Acute

Test Date	Species	LC50	NOEC Survival	Results
1/9/2020	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
1/9/2020	Pimephales promelas	>100% Effluent	100.00%	Pass
9/10/2020	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
9/10/2020	Pimephales promelas	>100% Effluent	100.00%	Pass
3/6/2021	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
3/6/2021	Pimephales promelas	>100% Effluent	100.00%	Pass
7/29/2021	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
7/29/2021	Pimephales promelas	>100% Effluent	100.00%	Pass
1/20/2022	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
1/20/2022	Pimephales promelas	>100% Effluent	100.00%	Pass
7/28/2022	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
7/28/2022	Pimephales promelas	>100% Effluent	100.00%	Pass
1/26/2023	Ceriodaphnia dubia	>100% Effluent	100.00%	Pass
1/26/2023	Pimephales promelas	>100% Effluent	100.00%	Pass

ATTACHMENT WS-6-0-1

Service Area Map

Worksheet 6.0 Section 1E



CITY OF GARLAND WASTEWATER TREATMENT PLANTS SERVICE AREA AND SIGNIFICANT INDUSTRIAL USER LOCATIONS

ATTACHMENT WS-6-0-2

Effluent Parameters Above the MAL

Worksheet 6.0 Section 2C

Rowlett Creek WWTP Pollutants > MAL

Pollutant	Concentration	MAL	Units	Date
Arsenic	0.89	0.5	µg/l	10/08/20
Arsenic	1.05	0.5	µg/l	01/07/21
Arsenic	0.838	0.5	µg/l	04/08/21
Cadmium	0.707	0.5	µg/l	01/07/21
Copper	34.1	2	µg/l	10/08/20
Copper	14.5	2	µg/l	01/07/21
Copper	22.2	2	µg/l	04/08/21
Copper	23.7	2	µg/l	08/24/21
Nickel	7.160	2	µg/l	10/08/20
Nickel	5.860	2	µg/l	01/07/21
Nickel	4.85	2	µg/l	08/24/21
Zinc	74.6	5	µg/l	10/08/20
Zinc	34.9	5	µg/l	01/07/21
Zinc	53.7	5	µg/l	04/08/21
Zinc	48.1	5	µg/l	08/24/21
Chloroform	28.4	10	µg/l	08/25/21
Aluminum	50.4	2.5	µg/l	10/08/20
Aluminum	62.4	2.5	µg/l	01/07/02
Aluminum	35.3	2.5	µg/l	04/08/21
Barium	43.3	3	µg/l	10/08/20
Barium	41.4	3	µg/l	01/07/02
Barium	49.6	3	µg/l	04/08/21
Nitrate-Nitrogen	20,600	100	µg/l	01/07/02
Arsenic	0.844	0.5	µg/l	11/19/21
Arsenic	1.02	0.5	µg/l	01/25/22
Arsenic	0.827	0.5	µg/l	04/12/22
Arsenic	1.44	0.5	µg/l	07/26/22
Copper	25.2	2	µg/l	11/19/21
Copper	27.7	2	µg/l	01/25/22
Copper	21	2	µg/l	04/12/22
Copper	35.7	2	µg/l	07/26/22
Lead	1	0.5	µg/l	11/19/21
Nickel	5.83	2	µg/l	11/19/21
Nickel	5.83	2	µg/l	01/25/22
Nickel	5.71	2	µg/l	04/12/22
Nickel	6.21	2	µg/l	07/26/22
Zinc	69.7	5	µg/l	11/19/21
Zinc	58.8	5	µg/l	01/25/22
Zinc	61.2	5	µg/l	04/12/22
Zinc	77.7	5	µg/l	07/26/22
Phenolics, Total	10.5	10	µg/l	04/12/22
Aluminum	19.9	2.5	µg/l	11/19/21

Rowlett Creek WWTP Pollutants > MAL

Pollutant	Concentration	MAL	Units	Date
Aluminum	18.3	2.5	µg/l	01/25/22
Aluminum	11.6	2.5	µg/l	04/12/22
Aluminum	19.3	2.5	µg/l	07/26/22
Barium	42.8	3	µg/l	11/19/21
Barium	41.6	3	µg/l	01/25/22
Barium	61.7	3	µg/l	04/12/22
Barium	54.9	3	µg/l	07/26/22
Diuron	0.125	0.09	µg/l	04/12/22
Fluoride	525	500	µg/l	04/12/22
Nitrate-Nitrogen	29,700	100	µg/l	11/19/21
Nitrate-Nitrogen	2,580	100	µg/l	04/12/22
Arsenic	0.908	0.5	µg/l	01/10/23
Arsenic	1.03	0.5	µg/l	04/11/23
Arsenic	1.07	0.5	µg/l	08/01/23
Copper	37.9	2	µg/l	10/18/22
Copper	18.5	2	µg/l	01/10/23
Copper	38.8	2	µg/l	04/11/23
Copper	32.9	2	µg/l	08/01/23
Nickel	7.73	2	µg/l	10/18/22
Nickel	6.34	2	µg/l	01/10/23
Nickel	5.91	2	µg/l	04/11/23
Nickel	4.96	2	µg/l	08/01/23
Zinc	58.2	5	µg/l	10/18/22
Zinc	62.3	5	µg/l	01/10/23
Zinc	50.1	5	µg/l	04/11/23
Zinc	68.1	5	µg/l	08/01/23
Phenolics, Total	40.0	10	µg/l	01/10/23
Aluminum	15.7	2.5	µg/l	01/10/23
Aluminum	27	2.5	µg/l	04/11/23
Barium	50.9	3	µg/l	01/10/23
Barium	64.8	3	µg/l	04/11/23
Nitrate-Nitrogen	209	100	µg/l	04/11/23

The TCEQ is committed to accessibility.
To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.

Compliance History Report

Compliance History Report for CN600328694, RN100619725, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent, or Owner/Operator: CN600328694, City of Garland **Classification:** SATISFACTORY **Rating:** 0.64

Regulated Entity: RN100619725, CITY OF GARLAND ROWLETT CREEK **Classification:** SATISFACTORY **Rating:** 0.87

Complexity Points: 9 **Repeat Violator:** NO

CH Group: 08 - Sewage Treatment Facilities

Location: 2500 E CENTERVILLE RD GARLAND TX 75040 DALLAS, TX, DALLAS COUNTY

TCEQ Region: REGION 04 - DFW METROPLEX

ID Number(s):

AIR NEW SOURCE PERMITS REGISTRATION 42124
AIR NEW SOURCE PERMITS ACCOUNT NUMBER DB2791P
AIR NEW SOURCE PERMITS AFS NUM 4811300836
SLUDGE AUTHORIZATION 720014
WASTEWATER PERMIT WQ0010090002
WASTEWATER EPA ID TX0024686
WASTEWATER AUTHORIZATION R10090002
AIR EMISSIONS INVENTORY ACCOUNT NUMBER DB2791P

Compliance History Period: September 01, 2019 to August 31, 2024 **Rating Year:** 2024 **Rating Date:** 09/01/2024

Date Compliance History Report Prepared: November 18, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: October 29, 2019 to November 18, 2024

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT **Phone:** (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES
2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

N/A

B. Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

Item 1	December 11, 2019	(1626676)
Item 3	January 13, 2020	(1634317)
Item 4	February 10, 2020	(1640933)
Item 5	March 10, 2020	(1647452)
Item 6	May 11, 2020	(1660374)
Item 7	June 11, 2020	(1666887)
Item 8	July 10, 2020	(1673838)

Item 9	September 09, 2020	(1687183)
Item 11	December 07, 2020	(1713274)
Item 12	February 09, 2021	(1726332)
Item 13	March 10, 2021	(1726333)
Item 14	March 26, 2021	(1701939)
Item 15	April 08, 2021	(1726334)
Item 17	May 10, 2021	(1740471)
Item 18	June 09, 2021	(1740472)
Item 19	July 08, 2021	(1751975)
Item 20	August 16, 2021	(1757435)
Item 21	October 06, 2021	(1777103)
Item 22	November 08, 2021	(1783895)
Item 23	December 08, 2021	(1790924)
Item 24	January 10, 2022	(1798714)
Item 25	February 08, 2022	(1806590)
Item 26	March 08, 2022	(1813655)
Item 27	April 11, 2022	(1820227)
Item 28	May 09, 2022	(1829067)
Item 29	June 08, 2022	(1835358)
Item 30	July 07, 2022	(1842561)
Item 31	August 11, 2022	(1848692)
Item 33	September 12, 2022	(1856492)
Item 34	October 10, 2022	(1862850)
Item 35	November 07, 2022	(1869763)
Item 36	December 08, 2022	(1875612)
Item 37	January 09, 2023	(1882433)
Item 38	February 08, 2023	(1890246)
Item 39	April 11, 2023	(1905598)
Item 40	May 08, 2023	(1912776)
Item 41	June 07, 2023	(1919383)
Item 42	June 26, 2023	(1904391)
Item 43	July 05, 2023	(1926349)
Item 44	August 07, 2023	(1933307)
Item 45	September 11, 2023	(1939448)
Item 46	October 09, 2023	(1946297)
Item 47	December 04, 2023	(1961756)
Item 48	January 17, 2024	(1968348)
Item 49	February 07, 2024	(1977408)
Item 50	March 07, 2024	(1983975)
Item 51	April 15, 2024	(1990505)
Item 52	May 07, 2024	(1996961)
Item 53	August 07, 2024	(2017067)
Item 54	September 10, 2024	(2024088)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

1 Date: 02/05/2024 (1951255)

Self Report? NO Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)(1)
30 TAC Chapter 305, SubChapter F 305.125(1)
30 TAC Chapter 305, SubChapter F 305.125(4)
Permit Conditions 2.g PERMIT

Description: Failure to prevent the unauthorized discharge of wastewater. Specifically, the City of Garland experienced a sanitary sewer overflow (SSO) on November 28, 2023, at 2601 Country Valley Rd. There shall be no unauthorized discharge of wastewater.

Self Report? NO Classification: Minor

Citation: 30 TAC Chapter 305, SubChapter F 305.125(1)
30 TAC Chapter 327 327.32(b)

Compliance History Report for CN600328694, RN100619725, Rating Year 2024 which includes Compliance History (CH) components from October 29, 2019, through November 18, 2024.

Monitoring & Reporting Reqs. No. 7 PERMIT

Description: Failure to provide notification of any noncompliance which may endanger human health or safety, or the environment. Specifically, the City of Garland did not submit a written noncompliance report within 5 days of an SSO that occurred on November 28, 2023. The city notified the TCEQ Region 4 Office within 24 hours, as required.

2 Date: 05/31/2024 (2003916)

Self Report? YES Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)
30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to meet the limit for one or more permit parameter

3 Date: 06/30/2024 (2011472)

Self Report? YES Classification: Moderate

Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)
30 TAC Chapter 305, SubChapter F 305.125(1)

Description: Failure to meet the limit for one or more permit parameter

F. Environmental audits:

N/A

G. Type of environmental management systems (EMSs):

N/A

H. Voluntary on-site compliance assessment dates:

N/A

I. Participation in a voluntary pollution reduction program:

N/A

J. Early compliance:

N/A

Sites Outside of Texas:

N/A

DMR DATA

WQ0010090002 - CITY OF GARLAND

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0024686	9/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	4	11	359
TX0024686	10/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	5	9	470
TX0024686	11/30/2019	001A	BOD, carbonaceous [5 day, 20 C]	4	7	390
TX0024686	12/31/2019	001A	BOD, carbonaceous [5 day, 20 C]	4	7	519
TX0024686	1/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	6	459
TX0024686	2/29/2020	001A	BOD, carbonaceous [5 day, 20 C]	3	5	373
TX0024686	3/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2	3	425
TX0024686	4/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	7	486
TX0024686	5/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	3	5	388
TX0024686	6/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	6	526
TX0024686	7/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	6	19	677
TX0024686	8/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	7	433
TX0024686	9/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	5	9	700
TX0024686	10/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	8	332
TX0024686	11/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	4	7	349
TX0024686	12/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	5	7	539
TX0024686	1/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4	6	447
TX0024686	2/28/2021	001A	BOD, carbonaceous [5 day, 20 C]	4	6	487
TX0024686	3/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4	9	437
TX0024686	4/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	4	9	299
TX0024686	5/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4	8	670
TX0024686	6/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	5	11	704
TX0024686	7/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	8	19	902
TX0024686	8/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	12	20	1526
TX0024686	9/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	7	12	710
TX0024686	10/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	6	11	511
TX0024686	11/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	6	10	540
TX0024686	12/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	5	7	433
TX0024686	1/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	5	7	409
TX0024686	2/28/2022	001A	BOD, carbonaceous [5 day, 20 C]	6	9	553

TX0024686	3/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	7	10	673
TX0024686	4/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	9	17	955
TX0024686	5/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	7	11	691
TX0024686	6/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	6	10	642
TX0024686	7/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	10	21	937
TX0024686	8/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	9	14	1076
TX0024686	9/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	6	8	648
TX0024686	10/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	6	9	564
TX0024686	11/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	6	11	736
TX0024686	12/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	5	9	716
TX0024686	1/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	8	446
TX0024686	2/28/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	8	734
TX0024686	3/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	6	14	714
TX0024686	4/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	7	13	809
TX0024686	5/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	6	8	672
TX0024686	6/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	6	9	594
TX0024686	7/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	9	547
TX0024686	8/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	8	506
TX0024686	9/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	7	417
TX0024686	10/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	6	23	841
TX0024686	11/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	7	460
TX0024686	12/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	5	9	594
TX0024686	1/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	11	514
TX0024686	2/29/2024	001A	BOD, carbonaceous [5 day, 20 C]	3	5	429
TX0024686	3/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	6	579
TX0024686	4/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	5	15	936
TX0024686	5/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	6	622
TX0024686	6/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	7	659
TX0024686	7/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	10	523
TX0024686	8/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	5	10	598
TX0024686	9/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	5	8	600
TX0024686	10/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	8	531
TX0024686	11/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	6	490
TX0024686	12/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	4	7	542
TX0024686	1/31/2025	001A	BOD, carbonaceous [5 day, 20 C]	3	10	476
TX0024686	2/28/2025	001A	BOD, carbonaceous [5 day, 20 C]	4	8	496
TX0024686	3/31/2025	001A	BOD, carbonaceous [5 day, 20 C]	4	8	576
			2 YEAR AVERAGE	4.68	9.28	589.00
			5 YEAR AVERAGE	5.12	9.48	590.99

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (CFU/100m	Reported Measure DAILY MX (CFU/100mL)
TX0024686	6/30/2020	001A	E. coli	75	326
TX0024686	7/31/2020	001A	E. coli	153	579
TX0024686	8/31/2020	001A	E. coli	47	199
TX0024686	9/30/2020	001A	E. coli	133	501
TX0024686	10/31/2020	001A	E. coli	101	687
TX0024686	11/30/2020	001A	E. coli	86	365
TX0024686	12/31/2020	001A	E. coli	27	88
TX0024686	1/31/2021	001A	E. coli	35	96
TX0024686	2/28/2021	001A	E. coli	36	238
TX0024686	3/31/2021	001A	E. coli	23	387
TX0024686	4/30/2021	001A	E. coli	3	31
TX0024686	5/31/2021	001A	E. coli	2	104
TX0024686	6/30/2021	001A	E. coli	3	210
TX0024686	7/31/2021	001A	E. coli	1	1
TX0024686	8/31/2021	001A	E. coli	1	7
TX0024686	9/30/2021	001A	E. coli	1	4
TX0024686	10/31/2021	001A	E. coli	1	1
TX0024686	11/30/2021	001A	E. coli	1	1
TX0024686	12/31/2021	001A	E. coli	1	68
TX0024686	1/31/2022	001A	E. coli	1	2
TX0024686	2/28/2022	001A	E. coli	1	1
TX0024686	3/31/2022	001A	E. coli	1	2
TX0024686	4/30/2022	001A	E. coli	1	222
TX0024686	5/31/2022	001A	E. coli	1	1
TX0024686	6/30/2022	001A	E. coli	1	6
TX0024686	7/31/2022	001A	E. coli	1	11
TX0024686	8/31/2022	001A	E. coli	2	66
TX0024686	9/30/2022	001A	E. coli	1	8
TX0024686	10/31/2022	001A	E. coli	1	24
TX0024686	11/30/2022	001A	E. coli	1	2
TX0024686	12/31/2022	001A	E. coli	1	1
TX0024686	1/31/2023	001A	E. coli	1	8
TX0024686	2/28/2023	001A	E. coli	6	313
TX0024686	3/31/2023	001A	E. coli	1	86
TX0024686	4/30/2023	001A	E. coli	2	222
TX0024686	5/31/2023	001A	E. coli	2	37
TX0024686	6/30/2023	001A	E. coli	1	4
TX0024686	7/31/2023	001A	E. coli	1	2
TX0024686	8/31/2023	001A	E. coli	1	5

TX0024686	9/30/2023	001A	E. coli	1	5
TX0024686	10/31/2023	001A	E. coli	2	16
TX0024686	11/30/2023	001A	E. coli	1	5
TX0024686	12/31/2023	001A	E. coli	3	365
TX0024686	1/31/2024	001A	E. coli	8	358
TX0024686	2/29/2024	001A	E. coli	1	4
TX0024686	3/31/2024	001A	E. coli	3	65
TX0024686	4/30/2024	001A	E. coli	6	77
TX0024686	5/31/2024	001A	E. coli	4	162
TX0024686	6/30/2024	001A	E. coli	4	517
TX0024686	7/31/2024	001A	E. coli	2	7
TX0024686	8/31/2024	001A	E. coli	3	19
TX0024686	9/30/2024	001A	E. coli	4	21
TX0024686	10/31/2024	001A	E. coli	2	21
TX0024686	11/30/2024	001A	E. coli	1	3
TX0024686	12/31/2024	001A	E. coli	1	6
TX0024686	1/31/2025	001A	E. coli	2	517
TX0024686	2/28/2025	001A	E. coli	3	42
TX0024686	3/31/2025	001A	E. coli	1	7
			2 YEAR GEOMEAN	1.94	26.54
			5 YEAR GEOMEAN	2.95	25.77

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (MGD)	Reported Measure DAILY MX (MGD)
TX0024686	9/30/2019	001A	Flow, in conduit or thru treatment plant	11.82	13.62
TX0024686	10/31/2019	001A	Flow, in conduit or thru treatment plant	12.2	15.68
TX0024686	11/30/2019	001A	Flow, in conduit or thru treatment plant	12.66	15.44
TX0024686	12/31/2019	001A	Flow, in conduit or thru treatment plant	15.21	31.07
TX0024686	1/31/2020	001A	Flow, in conduit or thru treatment plant	15.25	28.64
TX0024686	2/29/2020	001A	Flow, in conduit or thru treatment plant	16.94	29.43
TX0024686	3/31/2020	001A	Flow, in conduit or thru treatment plant	21.69	56
TX0024686	4/30/2020	001A	Flow, in conduit or thru treatment plant	16.16	20.02
TX0024686	5/31/2020	001A	Flow, in conduit or thru treatment plant	15	24.35
TX0024686	6/30/2020	001A	Flow, in conduit or thru treatment plant	15	22.49
TX0024686	7/31/2020	001A	Flow, in conduit or thru treatment plant	13.14	19.29
TX0024686	8/31/2020	001A	Flow, in conduit or thru treatment plant	11.8	15.16
TX0024686	9/30/2020	001A	Flow, in conduit or thru treatment plant	15.48	27.18
TX0024686	10/31/2020	001A	Flow, in conduit or thru treatment plant	10.62	19.8
TX0024686	11/30/2020	001A	Flow, in conduit or thru treatment plant	11.14	13.51
TX0024686	12/31/2020	001A	Flow, in conduit or thru treatment plant	13.77	52.97

TX0024686	1/31/2021	001A	Flow, in conduit or thru treatment plant	14.89	31.77
TX0024686	2/28/2021	001A	Flow, in conduit or thru treatment plant	13.55	24.61
TX0024686	3/31/2021	001A	Flow, in conduit or thru treatment plant	13.41	22.05
TX0024686	4/30/2021	001A	Flow, in conduit or thru treatment plant	9.21	18.45
TX0024686	5/31/2021	001A	Flow, in conduit or thru treatment plant	17.86	33.73
TX0024686	6/30/2021	001A	Flow, in conduit or thru treatment plant	18.87	34
TX0024686	7/31/2021	001A	Flow, in conduit or thru treatment plant	14.38	23.82
TX0024686	8/31/2021	001A	Flow, in conduit or thru treatment plant	15.61	25.66
TX0024686	9/30/2021	001A	Flow, in conduit or thru treatment plant	11.69	28.97
TX0024686	10/31/2021	001A	Flow, in conduit or thru treatment plant	11.25	21.4
TX0024686	11/30/2021	001A	Flow, in conduit or thru treatment plant	11.36	29.49
TX0024686	12/31/2021	001A	Flow, in conduit or thru treatment plant	10.55	12.13
TX0024686	1/31/2022	001A	Flow, in conduit or thru treatment plant	10.46	11.54
TX0024686	2/28/2022	001A	Flow, in conduit or thru treatment plant	11.16	13.67
TX0024686	3/31/2022	001A	Flow, in conduit or thru treatment plant	11.44	16.49
TX0024686	4/30/2022	001A	Flow, in conduit or thru treatment plant	12.52	28.93
TX0024686	5/31/2022	001A	Flow, in conduit or thru treatment plant	12.4	25.74
TX0024686	6/30/2022	001A	Flow, in conduit or thru treatment plant	12.69	16.27
TX0024686	7/31/2022	001A	Flow, in conduit or thru treatment plant	11.56	12.61
TX0024686	8/31/2022	001A	Flow, in conduit or thru treatment plant	13.77	41.47
TX0024686	9/30/2022	001A	Flow, in conduit or thru treatment plant	13.47	18.49
TX0024686	10/31/2022	001A	Flow, in conduit or thru treatment plant	11.89	21.4
TX0024686	11/30/2022	001A	Flow, in conduit or thru treatment plant	16.29	28.76
TX0024686	12/31/2022	001A	Flow, in conduit or thru treatment plant	15.93	28.04
TX0024686	1/31/2023	001A	Flow, in conduit or thru treatment plant	11.14	15.18
TX0024686	2/28/2023	001A	Flow, in conduit or thru treatment plant	16.45	29.3
TX0024686	3/31/2023	001A	Flow, in conduit or thru treatment plant	15.48	23.31
TX0024686	4/30/2023	001A	Flow, in conduit or thru treatment plant	14.1	17.9
TX0024686	5/31/2023	001A	Flow, in conduit or thru treatment plant	13.9	16.15
TX0024686	6/30/2023	001A	Flow, in conduit or thru treatment plant	12.9	15.08
TX0024686	7/31/2023	001A	Flow, in conduit or thru treatment plant	12.89	15.09
TX0024686	8/31/2023	001A	Flow, in conduit or thru treatment plant	12.08	13.44
TX0024686	9/30/2023	001A	Flow, in conduit or thru treatment plant	10.44	12.78
TX0024686	10/31/2023	001A	Flow, in conduit or thru treatment plant	13.99	47
TX0024686	11/30/2023	001A	Flow, in conduit or thru treatment plant	11.95	13.12
TX0024686	12/31/2023	001A	Flow, in conduit or thru treatment plant	13.38	37.13
TX0024686	1/31/2024	001A	Flow, in conduit or thru treatment plant	14.32	21.92
TX0024686	2/29/2024	001A	Flow, in conduit or thru treatment plant	15.18	20.56
TX0024686	3/31/2024	001A	Flow, in conduit or thru treatment plant	19.15	29.82
TX0024686	4/30/2024	001A	Flow, in conduit or thru treatment plant	20.33	40.44
TX0024686	5/31/2024	001A	Flow, in conduit or thru treatment plant	20.32	43.95
TX0024686	6/30/2024	001A	Flow, in conduit or thru treatment plant	21.52	42.71

TX0024686	7/31/2024	001A	Flow, in conduit or thru treatment plant	15.22	16.89
TX0024686	8/31/2024	001A	Flow, in conduit or thru treatment plant	15.37	16.67
TX0024686	9/30/2024	001A	Flow, in conduit or thru treatment plant	13.24	15.94
TX0024686	10/31/2024	001A	Flow, in conduit or thru treatment plant	14.29	16.01
TX0024686	11/30/2024	001A	Flow, in conduit or thru treatment plant	15.41	18.1
TX0024686	12/31/2024	001A	Flow, in conduit or thru treatment plant	16.13	25.69
TX0024686	1/31/2025	001A	Flow, in conduit or thru treatment plant	16.73	43.05
TX0024686	2/28/2025	001A	Flow, in conduit or thru treatment plant	16.06	25.95
TX0024686	3/31/2025	001A	Flow, in conduit or thru treatment plant	15.58	21.36
			2 YEAR AVERAGE	15.20	24.40
			5 YEAR AVERAGE	14.20	24.31

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0024686	9/30/2019	001A	Nitrogen, ammonia total [as N]	1	5	123
TX0024686	10/31/2019	001A	Nitrogen, ammonia total [as N]	1	1	102
TX0024686	11/30/2019	001A	Nitrogen, ammonia total [as N]	1	3	106
TX0024686	12/31/2019	001A	Nitrogen, ammonia total [as N]	1	2	94
TX0024686	1/31/2020	001A	Nitrogen, ammonia total [as N]	2	5	250
TX0024686	2/29/2020	001A	Nitrogen, ammonia total [as N]	2	5	220
TX0024686	3/31/2020	001A	Nitrogen, ammonia total [as N]	1	2	158
TX0024686	4/30/2020	001A	Nitrogen, ammonia total [as N]	1	3	126
TX0024686	5/31/2020	001A	Nitrogen, ammonia total [as N]	1	3	153
TX0024686	6/30/2020	001A	Nitrogen, ammonia total [as N]	1	2	96
TX0024686	7/31/2020	001A	Nitrogen, ammonia total [as N]	1	6	111
TX0024686	8/31/2020	001A	Nitrogen, ammonia total [as N]	1	4	123
TX0024686	9/30/2020	001A	Nitrogen, ammonia total [as N]	4	7	462
TX0024686	10/31/2020	001A	Nitrogen, ammonia total [as N]	2	11	197
TX0024686	11/30/2020	001A	Nitrogen, ammonia total [as N]	1	4	130
TX0024686	12/31/2020	001A	Nitrogen, ammonia total [as N]	2	8	197
TX0024686	1/31/2021	001A	Nitrogen, ammonia total [as N]	2	7	249
TX0024686	2/28/2021	001A	Nitrogen, ammonia total [as N]	2	6	246
TX0024686	3/31/2021	001A	Nitrogen, ammonia total [as N]	2	7	187
TX0024686	4/30/2021	001A	Nitrogen, ammonia total [as N]	1	3	85
TX0024686	5/31/2021	001A	Nitrogen, ammonia total [as N]	1	6	177
TX0024686	6/30/2021	001A	Nitrogen, ammonia total [as N]	1	2	86
TX0024686	7/31/2021	001A	Nitrogen, ammonia total [as N]	1	2	108
TX0024686	8/31/2021	001A	Nitrogen, ammonia total [as N]	1	3	110
TX0024686	9/30/2021	001A	Nitrogen, ammonia total [as N]	1	1	60
TX0024686	10/31/2021	001A	Nitrogen, ammonia total [as N]	1	3	82

TX0024686	11/30/2021	001A	Nitrogen, ammonia total [as N]	1	3	104
TX0024686	12/31/2021	001A	Nitrogen, ammonia total [as N]	1	4	105
TX0024686	1/31/2022	001A	Nitrogen, ammonia total [as N]	2	4	154
TX0024686	2/28/2022	001A	Nitrogen, ammonia total [as N]	2	4	147
TX0024686	3/31/2022	001A	Nitrogen, ammonia total [as N]	1	1	55
TX0024686	4/30/2022	001A	Nitrogen, ammonia total [as N]	1	6	115
TX0024686	5/31/2022	001A	Nitrogen, ammonia total [as N]	1	2	80
TX0024686	6/30/2022	001A	Nitrogen, ammonia total [as N]	1	2	61
TX0024686	7/31/2022	001A	Nitrogen, ammonia total [as N]	1	2	72
TX0024686	8/31/2022	001A	Nitrogen, ammonia total [as N]	1	4	106
TX0024686	9/30/2022	001A	Nitrogen, ammonia total [as N]	2	6	267
TX0024686	10/31/2022	001A	Nitrogen, ammonia total [as N]	1	2	124
TX0024686	11/30/2022	001A	Nitrogen, ammonia total [as N]	1	5	200
TX0024686	12/31/2022	001A	Nitrogen, ammonia total [as N]	2	5	218
TX0024686	1/31/2023	001A	Nitrogen, ammonia total [as N]	2	5	164
TX0024686	2/28/2023	001A	Nitrogen, ammonia total [as N]	2	10	289
TX0024686	3/31/2023	001A	Nitrogen, ammonia total [as N]	1	2	78
TX0024686	4/30/2023	001A	Nitrogen, ammonia total [as N]	2	4	234
TX0024686	5/31/2023	001A	Nitrogen, ammonia total [as N]	2	5	207
TX0024686	6/30/2023	001A	Nitrogen, ammonia total [as N]	2	5	183
TX0024686	7/31/2023	001A	Nitrogen, ammonia total [as N]	2	3	183
TX0024686	8/31/2023	001A	Nitrogen, ammonia total [as N]	2	3	153
TX0024686	9/30/2023	001A	Nitrogen, ammonia total [as N]	2	7	152
TX0024686	10/31/2023	001A	Nitrogen, ammonia total [as N]	2	9	235
TX0024686	11/30/2023	001A	Nitrogen, ammonia total [as N]	1	4	111
TX0024686	12/31/2023	001A	Nitrogen, ammonia total [as N]	2	3	201
TX0024686	1/31/2024	001A	Nitrogen, ammonia total [as N]	1	2	119
TX0024686	2/29/2024	001A	Nitrogen, ammonia total [as N]	1	3	141
TX0024686	3/31/2024	001A	Nitrogen, ammonia total [as N]	1	3	190
TX0024686	4/30/2024	001A	Nitrogen, ammonia total [as N]	1	3	209
TX0024686	5/31/2024	001A	Nitrogen, ammonia total [as N]	1	5	212
TX0024686	6/30/2024	001A	Nitrogen, ammonia total [as N]	1	1	121
TX0024686	7/31/2024	001A	Nitrogen, ammonia total [as N]	1	6	158
TX0024686	8/31/2024	001A	Nitrogen, ammonia total [as N]	1	2	123
TX0024686	9/30/2024	001A	Nitrogen, ammonia total [as N]	2	3	177
TX0024686	10/31/2024	001A	Nitrogen, ammonia total [as N]	1	2	119
TX0024686	11/30/2024	001A	Nitrogen, ammonia total [as N]	1	3	164
TX0024686	12/31/2024	001A	Nitrogen, ammonia total [as N]	2	3	229
TX0024686	1/31/2025	001A	Nitrogen, ammonia total [as N]	1	4	226
TX0024686	2/28/2025	001A	Nitrogen, ammonia total [as N]	1	2	159
TX0024686	3/31/2025	001A	Nitrogen, ammonia total [as N]	1	2	109
			2 YEAR AVERAGE	1.40	3.56	167.72

5 YEAR AVERAGE	1.39	3.96	156.60

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)
TX0024686	9/30/2019	001A	Oxygen, dissolved [DO]	6.2
TX0024686	10/31/2019	001A	Oxygen, dissolved [DO]	6.2
TX0024686	11/30/2019	001A	Oxygen, dissolved [DO]	6.8
TX0024686	12/31/2019	001A	Oxygen, dissolved [DO]	8
TX0024686	1/31/2020	001A	Oxygen, dissolved [DO]	7.1
TX0024686	2/29/2020	001A	Oxygen, dissolved [DO]	6.2
TX0024686	3/31/2020	001A	Oxygen, dissolved [DO]	6.5
TX0024686	4/30/2020	001A	Oxygen, dissolved [DO]	6.2
TX0024686	5/31/2020	001A	Oxygen, dissolved [DO]	6.4
TX0024686	6/30/2020	001A	Oxygen, dissolved [DO]	6.2
TX0024686	7/31/2020	001A	Oxygen, dissolved [DO]	6
TX0024686	8/31/2020	001A	Oxygen, dissolved [DO]	6
TX0024686	9/30/2020	001A	Oxygen, dissolved [DO]	6.1
TX0024686	10/31/2020	001A	Oxygen, dissolved [DO]	6
TX0024686	11/30/2020	001A	Oxygen, dissolved [DO]	6.3
TX0024686	12/31/2020	001A	Oxygen, dissolved [DO]	6
TX0024686	1/31/2021	001A	Oxygen, dissolved [DO]	6.6
TX0024686	2/28/2021	001A	Oxygen, dissolved [DO]	6.9
TX0024686	3/31/2021	001A	Oxygen, dissolved [DO]	7.3
TX0024686	4/30/2021	001A	Oxygen, dissolved [DO]	7.7
TX0024686	5/31/2021	001A	Oxygen, dissolved [DO]	7.2
TX0024686	6/30/2021	001A	Oxygen, dissolved [DO]	6.9
TX0024686	7/31/2021	001A	Oxygen, dissolved [DO]	6
TX0024686	8/31/2021	001A	Oxygen, dissolved [DO]	6.1
TX0024686	9/30/2021	001A	Oxygen, dissolved [DO]	6.3
TX0024686	10/31/2021	001A	Oxygen, dissolved [DO]	6.1
TX0024686	11/30/2021	001A	Oxygen, dissolved [DO]	6.5
TX0024686	12/31/2021	001A	Oxygen, dissolved [DO]	6.8
TX0024686	1/31/2022	001A	Oxygen, dissolved [DO]	7.2
TX0024686	2/28/2022	001A	Oxygen, dissolved [DO]	6.9
TX0024686	3/31/2022	001A	Oxygen, dissolved [DO]	8.2
TX0024686	4/30/2022	001A	Oxygen, dissolved [DO]	6.8
TX0024686	5/31/2022	001A	Oxygen, dissolved [DO]	6.7
TX0024686	6/30/2022	001A	Oxygen, dissolved [DO]	6.4
TX0024686	7/31/2022	001A	Oxygen, dissolved [DO]	6
TX0024686	8/31/2022	001A	Oxygen, dissolved [DO]	6

TX0024686	9/30/2022	001A	Oxygen, dissolved [DO]	6.1
TX0024686	10/31/2022	001A	Oxygen, dissolved [DO]	6.3
TX0024686	11/30/2022	001A	Oxygen, dissolved [DO]	6.5
TX0024686	12/31/2022	001A	Oxygen, dissolved [DO]	6.9
TX0024686	1/31/2023	001A	Oxygen, dissolved [DO]	7
TX0024686	2/28/2023	001A	Oxygen, dissolved [DO]	7.3
TX0024686	3/31/2023	001A	Oxygen, dissolved [DO]	7.3
TX0024686	4/30/2023	001A	Oxygen, dissolved [DO]	6.5
TX0024686	5/31/2023	001A	Oxygen, dissolved [DO]	6.2
TX0024686	6/30/2023	001A	Oxygen, dissolved [DO]	6.1
TX0024686	7/31/2023	001A	Oxygen, dissolved [DO]	6.2
TX0024686	8/31/2023	001A	Oxygen, dissolved [DO]	6
TX0024686	9/30/2023	001A	Oxygen, dissolved [DO]	6.1
TX0024686	10/31/2023	001A	Oxygen, dissolved [DO]	6.4
TX0024686	11/30/2023	001A	Oxygen, dissolved [DO]	7.1
TX0024686	12/31/2023	001A	Oxygen, dissolved [DO]	6.8
TX0024686	1/31/2024	001A	Oxygen, dissolved [DO]	7
TX0024686	2/29/2024	001A	Oxygen, dissolved [DO]	7.7
TX0024686	3/31/2024	001A	Oxygen, dissolved [DO]	7.4
TX0024686	4/30/2024	001A	Oxygen, dissolved [DO]	6.1
TX0024686	5/31/2024	001A	Oxygen, dissolved [DO]	6.1
TX0024686	6/30/2024	001A	Oxygen, dissolved [DO]	6
TX0024686	7/31/2024	001A	Oxygen, dissolved [DO]	6.4
TX0024686	8/31/2024	001A	Oxygen, dissolved [DO]	6.3
TX0024686	9/30/2024	001A	Oxygen, dissolved [DO]	6.3
TX0024686	10/31/2024	001A	Oxygen, dissolved [DO]	6.6
TX0024686	11/30/2024	001A	Oxygen, dissolved [DO]	7
TX0024686	12/31/2024	001A	Oxygen, dissolved [DO]	7.2
TX0024686	1/31/2025	001A	Oxygen, dissolved [DO]	7.5
TX0024686	2/28/2025	001A	Oxygen, dissolved [DO]	7.6
TX0024686	3/31/2025	001A	Oxygen, dissolved [DO]	7.5
			2 YEAR AVERAGE	6.70
			5 YEAR AVERAGE	6.63

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)	Reported Measure MAXIMUM (SU)
TX0024686	9/30/2019	001A	pH	6	7.6
TX0024686	10/31/2019	001A	pH	6.1	7.3
TX0024686	11/30/2019	001A	pH	6.1	8.3
TX0024686	12/31/2019	001A	pH	6.7	7.3

TX0024686	1/31/2020	001A	pH	6.3	7.4
TX0024686	2/29/2020	001A	pH	6.3	7.4
TX0024686	3/31/2020	001A	pH	6.7	7.7
TX0024686	4/30/2020	001A	pH	6.4	7.2
TX0024686	5/31/2020	001A	pH	6.6	7.4
TX0024686	6/30/2020	001A	pH	6.3	7.6
TX0024686	7/31/2020	001A	pH	6	6.9
TX0024686	8/31/2020	001A	pH	6.1	6.8
TX0024686	9/30/2020	001A	pH	6.3	7.4
TX0024686	10/31/2020	001A	pH	6	7.1
TX0024686	11/30/2020	001A	pH	6	7.5
TX0024686	12/31/2020	001A	pH	6	7
TX0024686	1/31/2021	001A	pH	6.4	7.2
TX0024686	2/28/2021	001A	pH	6.3	7.2
TX0024686	3/31/2021	001A	pH	6.5	7.6
TX0024686	4/30/2021	001A	pH	6.3	7.3
TX0024686	5/31/2021	001A	pH	6.4	7.3
TX0024686	6/30/2021	001A	pH	6.7	7.6
TX0024686	7/31/2021	001A	pH	6	7.7
TX0024686	8/31/2021	001A	pH	6	7.1
TX0024686	9/30/2021	001A	pH	6	7
TX0024686	10/31/2021	001A	pH	6	6.8
TX0024686	11/30/2021	001A	pH	6.2	7
TX0024686	12/31/2021	001A	pH	6	7.8
TX0024686	1/31/2022	001A	pH	6.2	6.8
TX0024686	2/28/2022	001A	pH	6.3	6.9
TX0024686	3/31/2022	001A	pH	6.4	7.2
TX0024686	4/30/2022	001A	pH	6.5	7.4
TX0024686	5/31/2022	001A	pH	6.6	7.8
TX0024686	6/30/2022	001A	pH	6.5	7.2
TX0024686	7/31/2022	001A	pH	6	7.1
TX0024686	8/31/2022	001A	pH	6	7.6
TX0024686	9/30/2022	001A	pH	6.2	6.9
TX0024686	10/31/2022	001A	pH	6	6.9
TX0024686	11/30/2022	001A	pH	6.4	7.6
TX0024686	12/31/2022	001A	pH	6.5	7
TX0024686	1/31/2023	001A	pH	6	7.1
TX0024686	2/28/2023	001A	pH	6.6	8.7
TX0024686	3/31/2023	001A	pH	6.6	7.2
TX0024686	4/30/2023	001A	pH	6.3	7
TX0024686	5/31/2023	001A	pH	6.4	7
TX0024686	6/30/2023	001A	pH	6.5	6.9

TX0024686	7/31/2023	001A	pH	6.1	7.2
TX0024686	8/31/2023	001A	pH	6	6.5
TX0024686	9/30/2023	001A	pH	6	6.8
TX0024686	10/31/2023	001A	pH	6	7.4
TX0024686	11/30/2023	001A	pH	6.1	7.1
TX0024686	12/31/2023	001A	pH	6	7.1
TX0024686	1/31/2024	001A	pH	6.1	7.1
TX0024686	2/29/2024	001A	pH	6.2	7.1
TX0024686	3/31/2024	001A	pH	6.5	7.3
TX0024686	4/30/2024	001A	pH	6.6	7.4
TX0024686	5/31/2024	001A	pH	6.4	7.2
TX0024686	6/30/2024	001A	pH	6.6	8.1
TX0024686	7/31/2024	001A	pH	6.1	6.7
TX0024686	8/31/2024	001A	pH	6	6.6
TX0024686	9/30/2024	001A	pH	6	6.5
TX0024686	10/31/2024	001A	pH	6	6.4
TX0024686	11/30/2024	001A	pH	6	6.8
TX0024686	12/31/2024	001A	pH	6	7.3
TX0024686	1/31/2025	001A	pH	6.3	7.2
TX0024686	2/28/2025	001A	pH	6.5	7.2
TX0024686	3/31/2025	001A	pH	6.5	7.2
			2 YEAR AVERAGE	6.23	7.05
			5 YEAR AVERAGE	6.25	7.22

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0024686	9/30/2019	001A	Solids, total suspended	5	28	511
TX0024686	10/31/2019	001A	Solids, total suspended	9	67	876
TX0024686	11/30/2019	001A	Solids, total suspended	5	17	490
TX0024686	12/31/2019	001A	Solids, total suspended	6	14	777
TX0024686	1/31/2020	001A	Solids, total suspended	5	9	568
TX0024686	2/29/2020	001A	Solids, total suspended	3	4	369
TX0024686	3/31/2020	001A	Solids, total suspended	3	4	491
TX0024686	4/30/2020	001A	Solids, total suspended	5	19	598
TX0024686	5/31/2020	001A	Solids, total suspended	4	6	439
TX0024686	6/30/2020	001A	Solids, total suspended	5	10	600
TX0024686	7/31/2020	001A	Solids, total suspended	8	25	955
TX0024686	8/31/2020	001A	Solids, total suspended	5	19	489
TX0024686	9/30/2020	001A	Solids, total suspended	13	25	1583
TX0024686	10/31/2020	001A	Solids, total suspended	4	18	363

TX0024686	11/30/2020	001A	Solids, total suspended	5	14	457
TX0024686	12/31/2020	001A	Solids, total suspended	9	18	1041
TX0024686	1/31/2021	001A	Solids, total suspended	6	14	735
TX0024686	2/28/2021	001A	Solids, total suspended	6	12	652
TX0024686	3/31/2021	001A	Solids, total suspended	8	26	798
TX0024686	4/30/2021	001A	Solids, total suspended	3	6	219
TX0024686	5/31/2021	001A	Solids, total suspended	3	5	421
TX0024686	6/30/2021	001A	Solids, total suspended	3	5	458
TX0024686	7/31/2021	001A	Solids, total suspended	2	4	294
TX0024686	8/31/2021	001A	Solids, total suspended	4	6	473
TX0024686	9/30/2021	001A	Solids, total suspended	5	9	427
TX0024686	10/31/2021	001A	Solids, total suspended	4	8	344
TX0024686	11/30/2021	001A	Solids, total suspended	3	6	280
TX0024686	12/31/2021	001A	Solids, total suspended	4	10	321
TX0024686	1/31/2022	001A	Solids, total suspended	3	8	247
TX0024686	2/28/2022	001A	Solids, total suspended	3	4	256
TX0024686	3/31/2022	001A	Solids, total suspended	5	8	475
TX0024686	4/30/2022	001A	Solids, total suspended	4	7	405
TX0024686	5/31/2022	001A	Solids, total suspended	4	7	397
TX0024686	6/30/2022	001A	Solids, total suspended	5	19	506
TX0024686	7/31/2022	001A	Solids, total suspended	4	8	401
TX0024686	8/31/2022	001A	Solids, total suspended	4	13	571
TX0024686	9/30/2022	001A	Solids, total suspended	5	14	516
TX0024686	10/31/2022	001A	Solids, total suspended	4	8	384
TX0024686	11/30/2022	001A	Solids, total suspended	3	4	377
TX0024686	12/31/2022	001A	Solids, total suspended	3	5	356
TX0024686	1/31/2023	001A	Solids, total suspended	3	7	293
TX0024686	2/28/2023	001A	Solids, total suspended	3	7	441
TX0024686	3/31/2023	001A	Solids, total suspended	3	5	341
TX0024686	4/30/2023	001A	Solids, total suspended	3	8	371
TX0024686	5/31/2023	001A	Solids, total suspended	3	5	321
TX0024686	6/30/2023	001A	Solids, total suspended	3	12	373
TX0024686	7/31/2023	001A	Solids, total suspended	2	7	264
TX0024686	8/31/2023	001A	Solids, total suspended	3	7	271
TX0024686	9/30/2023	001A	Solids, total suspended	4	7	320
TX0024686	10/31/2023	001A	Solids, total suspended	6	90	1516
TX0024686	11/30/2023	001A	Solids, total suspended	2	4	246
TX0024686	12/31/2023	001A	Solids, total suspended	6	20	722
TX0024686	1/31/2024	001A	Solids, total suspended	6	26	637
TX0024686	2/29/2024	001A	Solids, total suspended	2	3	262
TX0024686	3/31/2024	001A	Solids, total suspended	3	5	435
TX0024686	4/30/2024	001A	Solids, total suspended	5	34	1077

TX0024686	5/31/2024	001A	Solids, total suspended	5	20	829
TX0024686	6/30/2024	001A	Solids, total suspended	6	12	1134
TX0024686	7/31/2024	001A	Solids, total suspended	3	9	393
TX0024686	8/31/2024	001A	Solids, total suspended	5	30	597
TX0024686	9/30/2024	001A	Solids, total suspended	5	19	503
TX0024686	10/31/2024	001A	Solids, total suspended	2	4	280
TX0024686	11/30/2024	001A	Solids, total suspended	3	6	369
TX0024686	12/31/2024	001A	Solids, total suspended	4	7	524
TX0024686	1/31/2025	001A	Solids, total suspended	2	6	369
TX0024686	2/28/2025	001A	Solids, total suspended	3	6	376
TX0024686	3/31/2025	001A	Solids, total suspended	4	7	502
			2 YEAR AVERAGE	3.72	14.36	521.28
			5 YEAR AVERAGE	4.34	13.22	517.70

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure INST MAX (mg/L)
TX0024686	9/30/2019	001A	Chlorine, total residual	<.099
TX0024686	10/31/2019	001A	Chlorine, total residual	<.099
TX0024686	11/30/2019	001A	Chlorine, total residual	<.099
TX0024686	12/31/2019	001A	Chlorine, total residual	<.099
TX0024686	1/31/2020	001A	Chlorine, total residual	<.099
TX0024686	2/29/2020	001A	Chlorine, total residual	<.099
TX0024686	3/31/2020	001A	Chlorine, total residual	<.099
TX0024686	4/30/2020	001A	Chlorine, total residual	<.099
TX0024686	5/31/2020	001A	Chlorine, total residual	<.099
TX0024686	6/30/2020	001A	Chlorine, total residual	<.099
TX0024686	7/31/2020	001A	Chlorine, total residual	<.099
TX0024686	8/31/2020	001A	Chlorine, total residual	<.099
TX0024686	9/30/2020	001A	Chlorine, total residual	<.099
TX0024686	10/31/2020	001A	Chlorine, total residual	<.099
TX0024686	11/30/2020	001A	Chlorine, total residual	<.099
TX0024686	12/31/2020	001A	Chlorine, total residual	<.099
TX0024686	1/31/2021	001A	Chlorine, total residual	<.099
TX0024686	2/28/2021	001A	Chlorine, total residual	<.099
TX0024686	3/31/2021	001A	Chlorine, total residual	<.099
TX0024686	4/30/2021	001A	Chlorine, total residual	<.099
TX0024686	5/31/2021	001A	Chlorine, total residual	<.099
TX0024686	6/30/2021	001A	Chlorine, total residual	<.099
TX0024686	7/31/2021	001A	Chlorine, total residual	<.099
TX0024686	8/31/2021	001A	Chlorine, total residual	<.099

TX0024686	9/30/2021	001A	Chlorine, total residual	<.099
TX0024686	10/31/2021	001A	Chlorine, total residual	0.099
TX0024686	11/30/2021	001A	Chlorine, total residual	<.099
TX0024686	12/31/2021	001A	Chlorine, total residual	<.099
TX0024686	1/31/2022	001A	Chlorine, total residual	<.099
TX0024686	2/28/2022	001A	Chlorine, total residual	<.099
TX0024686	3/31/2022	001A	Chlorine, total residual	<.099
TX0024686	4/30/2022	001A	Chlorine, total residual	<.099
TX0024686	5/31/2022	001A	Chlorine, total residual	<.099
TX0024686	6/30/2022	001A	Chlorine, total residual	<.099
TX0024686	7/31/2022	001A	Chlorine, total residual	<.099
TX0024686	8/31/2022	001A	Chlorine, total residual	<.099
TX0024686	9/30/2022	001A	Chlorine, total residual	<.099
TX0024686	10/31/2022	001A	Chlorine, total residual	<.099
TX0024686	11/30/2022	001A	Chlorine, total residual	<.099
TX0024686	12/31/2022	001A	Chlorine, total residual	<.099
TX0024686	1/31/2023	001A	Chlorine, total residual	<.099
TX0024686	2/28/2023	001A	Chlorine, total residual	<.099
TX0024686	3/31/2023	001A	Chlorine, total residual	<.099
TX0024686	4/30/2023	001A	Chlorine, total residual	<.099
TX0024686	5/31/2023	001A	Chlorine, total residual	<.099
TX0024686	6/30/2023	001A	Chlorine, total residual	<.099
TX0024686	7/31/2023	001A	Chlorine, total residual	<.099
TX0024686	8/31/2023	001A	Chlorine, total residual	<.099
TX0024686	9/30/2023	001A	Chlorine, total residual	<.099
TX0024686	10/31/2023	001A	Chlorine, total residual	<.099
TX0024686	11/30/2023	001A	Chlorine, total residual	<.099
TX0024686	12/31/2023	001A	Chlorine, total residual	<.099
TX0024686	1/31/2024	001A	Chlorine, total residual	<.099
TX0024686	2/29/2024	001A	Chlorine, total residual	<.099
TX0024686	3/31/2024	001A	Chlorine, total residual	<.099
TX0024686	4/30/2024	001A	Chlorine, total residual	<.099
TX0024686	5/31/2024	001A	Chlorine, total residual	<.099
TX0024686	6/30/2024	001A	Chlorine, total residual	<.099
TX0024686	7/31/2024	001A	Chlorine, total residual	<.099
TX0024686	8/31/2024	001A	Chlorine, total residual	<.099
TX0024686	9/30/2024	001A	Chlorine, total residual	<.099
TX0024686	10/31/2024	001A	Chlorine, total residual	<.099
TX0024686	11/30/2024	001A	Chlorine, total residual	<.099
TX0024686	12/31/2024	001A	Chlorine, total residual	<.099
TX0024686	1/31/2025	001A	Chlorine, total residual	<.099
TX0024686	2/28/2025	001A	Chlorine, total residual	<.099

TX0024686	3/31/2025	001A	Chlorine, total residual	<.099
			2 YEAR AVERAGE	0.10
			5 YEAR AVERAGE	0.10

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)
TX0024686	9/30/2019	001A	Chlorine, total residual	1
TX0024686	10/31/2019	001A	Chlorine, total residual	1.2
TX0024686	11/30/2019	001A	Chlorine, total residual	1.2
TX0024686	12/31/2019	001A	Chlorine, total residual	1.1
TX0024686	1/31/2020	001A	Chlorine, total residual	1
TX0024686	2/29/2020	001A	Chlorine, total residual	1
TX0024686	3/31/2020	001A	Chlorine, total residual	1
TX0024686	4/30/2020	001A	Chlorine, total residual	1.1
TX0024686	5/31/2020	001A	Chlorine, total residual	1
TX0024686	6/30/2020	001A	Chlorine, total residual	1
TX0024686	7/31/2020	001A	Chlorine, total residual	1.2
TX0024686	8/31/2020	001A	Chlorine, total residual	1.1
TX0024686	9/30/2020	001A	Chlorine, total residual	1
TX0024686	10/31/2020	001A	Chlorine, total residual	1.1
TX0024686	11/30/2020	001A	Chlorine, total residual	1.2
TX0024686	12/31/2020	001A	Chlorine, total residual	1.1
TX0024686	1/31/2021	001A	Chlorine, total residual	1.1
TX0024686	2/28/2021	001A	Chlorine, total residual	1.1
TX0024686	3/31/2021	001A	Chlorine, total residual	1
TX0024686	4/30/2021	001A	Chlorine, total residual	1.3
TX0024686	5/31/2021	001A	Chlorine, total residual	1.1
TX0024686	6/30/2021	001A	Chlorine, total residual	1
TX0024686	7/31/2021	001A	Chlorine, total residual	1
TX0024686	8/31/2021	001A	Chlorine, total residual	1.2
TX0024686	9/30/2021	001A	Chlorine, total residual	1
TX0024686	10/31/2021	001A	Chlorine, total residual	1
TX0024686	11/30/2021	001A	Chlorine, total residual	1
TX0024686	12/31/2021	001A	Chlorine, total residual	1.1
TX0024686	1/31/2022	001A	Chlorine, total residual	1
TX0024686	2/28/2022	001A	Chlorine, total residual	1
TX0024686	3/31/2022	001A	Chlorine, total residual	1
TX0024686	4/30/2022	001A	Chlorine, total residual	1
TX0024686	5/31/2022	001A	Chlorine, total residual	1
TX0024686	6/30/2022	001A	Chlorine, total residual	1

TX0024686	7/31/2022	001A	Chlorine, total residual	1
TX0024686	8/31/2022	001A	Chlorine, total residual	1
TX0024686	9/30/2022	001A	Chlorine, total residual	1
TX0024686	10/31/2022	001A	Chlorine, total residual	1
TX0024686	11/30/2022	001A	Chlorine, total residual	1
TX0024686	12/31/2022	001A	Chlorine, total residual	1.1
TX0024686	1/31/2023	001A	Chlorine, total residual	1
TX0024686	2/28/2023	001A	Chlorine, total residual	1.1
TX0024686	3/31/2023	001A	Chlorine, total residual	1.1
TX0024686	4/30/2023	001A	Chlorine, total residual	1
TX0024686	5/31/2023	001A	Chlorine, total residual	1
TX0024686	6/30/2023	001A	Chlorine, total residual	1.2
TX0024686	7/31/2023	001A	Chlorine, total residual	1
TX0024686	8/31/2023	001A	Chlorine, total residual	1
TX0024686	9/30/2023	001A	Chlorine, total residual	1
TX0024686	10/31/2023	001A	Chlorine, total residual	1
TX0024686	11/30/2023	001A	Chlorine, total residual	1
TX0024686	12/31/2023	001A	Chlorine, total residual	1
TX0024686	1/31/2024	001A	Chlorine, total residual	1
TX0024686	2/29/2024	001A	Chlorine, total residual	1
TX0024686	3/31/2024	001A	Chlorine, total residual	1.1
TX0024686	4/30/2024	001A	Chlorine, total residual	1.2
TX0024686	5/31/2024	001A	Chlorine, total residual	1
TX0024686	6/30/2024	001A	Chlorine, total residual	1
TX0024686	7/31/2024	001A	Chlorine, total residual	1
TX0024686	8/31/2024	001A	Chlorine, total residual	1.1
TX0024686	9/30/2024	001A	Chlorine, total residual	1
TX0024686	10/31/2024	001A	Chlorine, total residual	1
TX0024686	11/30/2024	001A	Chlorine, total residual	1
TX0024686	12/31/2024	001A	Chlorine, total residual	1.2
TX0024686	1/31/2025	001A	Chlorine, total residual	1.3
TX0024686	2/28/2025	001A	Chlorine, total residual	1.2
TX0024686	3/31/2025	001A	Chlorine, total residual	1.1
			2 YEAR AVERAGE	1.06
			5 YEAR AVERAGE	1.06

EPA ID				Reported Measure
	Monitoring Period	Outfall	Parameter	2HR PEAK (gal/min)
TX0024686	9/30/2019	001A	Flow, in conduit or thru treatment plant	9458
TX0024686	10/31/2019	001A	Flow, in conduit or thru treatment plant	10889

TX0024686	11/30/2019	001A	Flow, in conduit or thru treatment plant	10722
TX0024686	12/31/2019	001A	Flow, in conduit or thru treatment plant	21576
TX0024686	1/31/2020	001A	Flow, in conduit or thru treatment plant	19889
TX0024686	2/29/2020	001A	Flow, in conduit or thru treatment plant	20438
TX0024686	3/31/2020	001A	Flow, in conduit or thru treatment plant	38889
TX0024686	4/30/2020	001A	Flow, in conduit or thru treatment plant	13903
TX0024686	5/31/2020	001A	Flow, in conduit or thru treatment plant	16910
TX0024686	6/30/2020	001A	Flow, in conduit or thru treatment plant	15618
TX0024686	7/31/2020	001A	Flow, in conduit or thru treatment plant	13396
TX0024686	8/31/2020	001A	Flow, in conduit or thru treatment plant	10528
TX0024686	9/30/2020	001A	Flow, in conduit or thru treatment plant	18875
TX0024686	10/31/2020	001A	Flow, in conduit or thru treatment plant	13750
TX0024686	11/30/2020	001A	Flow, in conduit or thru treatment plant	9382
TX0024686	12/31/2020	001A	Flow, in conduit or thru treatment plant	36785
TX0024686	1/31/2021	001A	Flow, in conduit or thru treatment plant	22063
TX0024686	2/28/2021	001A	Flow, in conduit or thru treatment plant	17090
TX0024686	3/31/2021	001A	Flow, in conduit or thru treatment plant	15313
TX0024686	4/30/2021	001A	Flow, in conduit or thru treatment plant	12813
TX0024686	5/31/2021	001A	Flow, in conduit or thru treatment plant	23424
TX0024686	6/30/2021	001A	Flow, in conduit or thru treatment plant	23611
TX0024686	7/31/2021	001A	Flow, in conduit or thru treatment plant	16542
TX0024686	8/31/2021	001A	Flow, in conduit or thru treatment plant	17819
TX0024686	9/30/2021	001A	Flow, in conduit or thru treatment plant	10882
TX0024686	10/31/2021	001A	Flow, in conduit or thru treatment plant	14882
TX0024686	11/30/2021	001A	Flow, in conduit or thru treatment plant	20479
TX0024686	12/31/2021	001A	Flow, in conduit or thru treatment plant	8424
TX0024686	1/31/2022	001A	Flow, in conduit or thru treatment plant	8014
TX0024686	2/28/2022	001A	Flow, in conduit or thru treatment plant	9493
TX0024686	3/31/2022	001A	Flow, in conduit or thru treatment plant	11451
TX0024686	4/30/2022	001A	Flow, in conduit or thru treatment plant	20090
TX0024686	5/31/2022	001A	Flow, in conduit or thru treatment plant	17875
TX0024686	6/30/2022	001A	Flow, in conduit or thru treatment plant	11299
TX0024686	7/31/2022	001A	Flow, in conduit or thru treatment plant	8757
TX0024686	8/31/2022	001A	Flow, in conduit or thru treatment plant	28799
TX0024686	9/30/2022	001A	Flow, in conduit or thru treatment plant	12840
TX0024686	10/31/2022	001A	Flow, in conduit or thru treatment plant	14826
TX0024686	11/30/2022	001A	Flow, in conduit or thru treatment plant	19972
TX0024686	12/31/2022	001A	Flow, in conduit or thru treatment plant	19472
TX0024686	1/31/2023	001A	Flow, in conduit or thru treatment plant	10542
TX0024686	2/28/2023	001A	Flow, in conduit or thru treatment plant	20347
TX0024686	3/31/2023	001A	Flow, in conduit or thru treatment plant	16188
TX0024686	4/30/2023	001A	Flow, in conduit or thru treatment plant	12431

TX0024686	5/31/2023	001A	Flow, in conduit or thru treatment plant	11215
TX0024686	6/30/2023	001A	Flow, in conduit or thru treatment plant	10472
TX0024686	7/31/2023	001A	Flow, in conduit or thru treatment plant	10479
TX0024686	8/31/2023	001A	Flow, in conduit or thru treatment plant	9333
TX0024686	9/30/2023	001A	Flow, in conduit or thru treatment plant	8875
TX0024686	10/31/2023	001A	Flow, in conduit or thru treatment plant	32653
TX0024686	11/30/2023	001A	Flow, in conduit or thru treatment plant	9111
TX0024686	12/31/2023	001A	Flow, in conduit or thru treatment plant	25785
TX0024686	1/31/2024	001A	Flow, in conduit or thru treatment plant	15215
TX0024686	2/29/2024	001A	Flow, in conduit or thru treatment plant	14278
TX0024686	3/31/2024	001A	Flow, in conduit or thru treatment plant	20708
TX0024686	4/30/2024	001A	Flow, in conduit or thru treatment plant	28083
TX0024686	5/31/2024	001A	Flow, in conduit or thru treatment plant	30521
TX0024686	6/30/2024	001A	Flow, in conduit or thru treatment plant	29660
TX0024686	7/31/2024	001A	Flow, in conduit or thru treatment plant	11729
TX0024686	8/31/2024	001A	Flow, in conduit or thru treatment plant	11576
TX0024686	9/30/2024	001A	Flow, in conduit or thru treatment plant	11069
TX0024686	10/31/2024	001A	Flow, in conduit or thru treatment plant	11153
TX0024686	11/30/2024	001A	Flow, in conduit or thru treatment plant	12569
TX0024686	12/31/2024	001A	Flow, in conduit or thru treatment plant	17840
TX0024686	1/31/2025	001A	Flow, in conduit or thru treatment plant	29896
TX0024686	2/28/2025	001A	Flow, in conduit or thru treatment plant	18021
TX0024686	3/31/2025	001A	Flow, in conduit or thru treatment plant	14833
			2 YEAR AVERAGE	16948
			5 YEAR AVERAGE	16744

Enter Flow Limit Below in MGD:

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL AVG (MGD)	PERCENT OF LIMIT (24.00)
TX0024686	9/30/2019	001A	Flow, in conduit or thru treatment plant	15.73	65.54%
TX0024686	10/31/2019	001A	Flow, in conduit or thru treatment plant	14.05	58.54%
TX0024686	11/30/2019	001A	Flow, in conduit or thru treatment plant	13.83	57.63%
TX0024686	12/31/2019	001A	Flow, in conduit or thru treatment plant	13.72	57.17%
TX0024686	1/31/2020	001A	Flow, in conduit or thru treatment plant	13.72	57.17%
TX0024686	2/29/2020	001A	Flow, in conduit or thru treatment plant	14.18	59.08%
TX0024686	3/31/2020	001A	Flow, in conduit or thru treatment plant	15.01	62.54%
TX0024686	4/30/2020	001A	Flow, in conduit or thru treatment plant	14.91	62.13%
TX0024686	5/31/2020	001A	Flow, in conduit or thru treatment plant	14.53	60.54%
TX0024686	6/30/2020	001A	Flow, in conduit or thru treatment plant	14.56	60.67%
TX0024686	7/31/2020	001A	Flow, in conduit or thru treatment plant	14.71	61.29%
TX0024686	8/31/2020	001A	Flow, in conduit or thru treatment plant	14.73	61.38%

TX0024686	9/30/2020	001A	Flow, in conduit or thru treatment plant	15.04	62.67%
TX0024686	10/31/2020	001A	Flow, in conduit or thru treatment plant	14.9	62.08%
TX0024686	11/30/2020	001A	Flow, in conduit or thru treatment plant	14.78	61.58%
TX0024686	12/31/2020	001A	Flow, in conduit or thru treatment plant	14.66	61.08%
TX0024686	1/31/2021	001A	Flow, in conduit or thru treatment plant	14.63	60.96%
TX0024686	2/28/2021	001A	Flow, in conduit or thru treatment plant	14.36	59.83%
TX0024686	3/31/2021	001A	Flow, in conduit or thru treatment plant	13.66	56.92%
TX0024686	4/30/2021	001A	Flow, in conduit or thru treatment plant	13.08	54.50%
TX0024686	5/31/2021	001A	Flow, in conduit or thru treatment plant	13.33	55.54%
TX0024686	6/30/2021	001A	Flow, in conduit or thru treatment plant	13.64	56.83%
TX0024686	7/31/2021	001A	Flow, in conduit or thru treatment plant	13.75	57.29%
TX0024686	8/31/2021	001A	Flow, in conduit or thru treatment plant	14.07	58.63%
TX0024686	9/30/2021	001A	Flow, in conduit or thru treatment plant	13.72	57.17%
TX0024686	10/31/2021	001A	Flow, in conduit or thru treatment plant	13.78	57.42%
TX0024686	11/30/2021	001A	Flow, in conduit or thru treatment plant	13.8	57.50%
TX0024686	12/31/2021	001A	Flow, in conduit or thru treatment plant	13.52	56.33%
TX0024686	1/31/2022	001A	Flow, in conduit or thru treatment plant	13.18	54.92%
TX0024686	2/28/2022	001A	Flow, in conduit or thru treatment plant	13	54.17%
TX0024686	3/31/2022	001A	Flow, in conduit or thru treatment plant	12.83	53.46%
TX0024686	4/30/2022	001A	Flow, in conduit or thru treatment plant	13.1	54.58%
TX0024686	5/31/2022	001A	Flow, in conduit or thru treatment plant	12.64	52.67%
TX0024686	6/30/2022	001A	Flow, in conduit or thru treatment plant	12.13	50.54%
TX0024686	7/31/2022	001A	Flow, in conduit or thru treatment plant	11.89	49.54%
TX0024686	8/31/2022	001A	Flow, in conduit or thru treatment plant	11.74	48.92%
TX0024686	9/30/2022	001A	Flow, in conduit or thru treatment plant	11.88	49.50%
TX0024686	10/31/2022	001A	Flow, in conduit or thru treatment plant	11.94	49.75%
TX0024686	11/30/2022	001A	Flow, in conduit or thru treatment plant	12.34	51.42%
TX0024686	12/31/2022	001A	Flow, in conduit or thru treatment plant	12.8	53.33%
TX0024686	1/31/2023	001A	Flow, in conduit or thru treatment plant	12.86	53.58%
TX0024686	2/28/2023	001A	Flow, in conduit or thru treatment plant	13.26	55.25%
TX0024686	3/31/2023	001A	Flow, in conduit or thru treatment plant	13.61	56.71%
TX0024686	4/30/2023	001A	Flow, in conduit or thru treatment plant	13.74	57.25%
TX0024686	5/31/2023	001A	Flow, in conduit or thru treatment plant	13.87	57.79%
TX0024686	6/30/2023	001A	Flow, in conduit or thru treatment plant	13.88	57.83%
TX0024686	7/31/2023	001A	Flow, in conduit or thru treatment plant	14	58.33%
TX0024686	8/31/2023	001A	Flow, in conduit or thru treatment plant	13.85	57.71%
TX0024686	9/30/2023	001A	Flow, in conduit or thru treatment plant	13.6	56.67%
TX0024686	10/31/2023	001A	Flow, in conduit or thru treatment plant	13.78	57.42%
TX0024686	11/30/2023	001A	Flow, in conduit or thru treatment plant	13.43	55.96%
TX0024686	12/31/2023	001A	Flow, in conduit or thru treatment plant	13.21	55.04%
TX0024686	1/31/2024	001A	Flow, in conduit or thru treatment plant	13.48	56.17%
TX0024686	2/29/2024	001A	Flow, in conduit or thru treatment plant	13.38	55.75%

TX0024686	3/31/2024	001A	Flow, in conduit or thru treatment plant	13.7	57.08%	
TX0024686	4/30/2024	001A	Flow, in conduit or thru treatment plant	14.21	59.21%	
TX0024686	5/31/2024	001A	Flow, in conduit or thru treatment plant	14.75	61.46%	
TX0024686	6/30/2024	001A	Flow, in conduit or thru treatment plant	15.46	64.42%	
TX0024686	7/31/2024	001A	Flow, in conduit or thru treatment plant	15.65	65.21%	
TX0024686	8/31/2024	001A	Flow, in conduit or thru treatment plant	15.93	66.38%	
TX0024686	9/30/2024	001A	Flow, in conduit or thru treatment plant	16.16	67.33%	
TX0024686	10/31/2024	001A	Flow, in conduit or thru treatment plant	16.19	67.46%	
TX0024686	11/30/2024	001A	Flow, in conduit or thru treatment plant	16.47	68.63%	
TX0024686	12/31/2024	001A	Flow, in conduit or thru treatment plant	16.7	69.58%	
TX0024686	1/31/2025	001A	Flow, in conduit or thru treatment plant	16.91	70.46%	
TX0024686	2/28/2025	001A	Flow, in conduit or thru treatment plant	16.98	70.75%	
TX0024686	3/31/2025	001A	Flow, in conduit or thru treatment plant	16.68	69.50%	75/90 Rule
			2 YEAR AVERAGE	14.78	75% Limit = 18	NO
			5 YEAR AVERAGE	14.08	90% Limit = 21.6	NO

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0024686	12/31/2019	001S	Copper, total [as Cu]	0.031	0.031	2.86
TX0024686	11/30/2020	001S	Copper, total [as Cu]	0.036	0.036	4.32
TX0024686	5/31/2021	001S	Copper, total [as Cu]	0.015	0.015	1.93
TX0024686	11/30/2021	001S	Copper, total [as Cu]	0.024	0.024	2.54
TX0024686	5/31/2022	001S	Copper, total [as Cu]	0.021	0.021	2.23
TX0024686	11/30/2022	001S	Copper, total [as Cu]	0.038	0.038	3.49
TX0024686	5/31/2023	001S	Copper, total [as Cu]	0.039	0.039	4.23
TX0024686	11/30/2023	001S	Copper, total [as Cu]	0.032	0.032	3.15
TX0024686	5/31/2024	001S	Copper, total [as Cu]	0.021	0.021	5.46
TX0024686	11/30/2024	001S	Copper, total [as Cu]	0.036	0.036	4.39
			2 YEAR AVERAGE	0.033	0.033	4.14
			5 YEAR AVERAGE	0.029	0.029	3.46

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0024686	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	1

EPA ID				Reported Measure

	Monitoring Period	Outfall	Parameter	ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual amount of sludge land applied	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual amt of sludge incinerated	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual amt sludge disposed in landfill	1906.56

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual amt sludge transported interstate	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Annual sludge production, total	1906.56

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL MAX (mg/kg)
TX0024686	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	7/31/2020	SLDP	Toxicity characteristic leaching procedure	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0024686	7/31/2020	SLDP	Ann. amt sludge disposed by other method	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (met t/ha/yr)
TX0024686	7/31/2020	SLLA	Annual whole sludge application rate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C

EPA ID				Reported Measure	Reported Measure	Reported Measure

	Monitoring Period	Outfall	Parameter	SINGSAMP (mg/kg)	MAXIMUM (mg/kg)	MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MX VALUE (lb/acr)
TX0024686	7/31/2020	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (table #)
TX0024686	7/31/2020	SLLA	Pollutant table from 503.13	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0024686	7/31/2020	SLLA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0024686	7/31/2020	SLLA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (state class)
TX0024686	7/31/2020	SLLA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0024686	7/31/2020	SLLY	Fecal coliform	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0024686	7/31/2020	SLLY	Salmonella	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0024686	7/31/2020	SLSA	Arsenic, dry weight	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (acr)
TX0024686	7/31/2020	SLSA	Boundary areas	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0024686	7/31/2020	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0024686	7/31/2020	SLSA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0024686	7/31/2020	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (SU)
TX0024686	7/31/2020	SLSA	pH	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0024686	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0024686	7/31/2020	SLSA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (state class)
TX0024686	7/31/2020	SLSA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)

TX0024686	12/31/2019	TX1A	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0024686	1/31/2020	TX1A	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0024686	2/29/2020	TX1A	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q
TX0024686	3/31/2020	TX1A	LOEC Lethal Survival Static Renewal 7 Day Chronic P	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1A	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0024686	1/31/2020	TX1A	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0024686	2/29/2020	TX1A	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q
TX0024686	3/31/2020	TX1A	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	12/31/2019	TX1A	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0024686	1/31/2020	TX1A	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0024686	2/29/2020	TX1A	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0
TX0024686	3/31/2020	TX1A	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1A	NOEC Lethal Static Renewal 7 Day Chronic Pimephal	100	100
TX0024686	1/31/2020	TX1A	NOEC Lethal Static Renewal 7 Day Chronic Pimephal	100	100
TX0024686	2/29/2020	TX1A	NOEC Lethal Static Renewal 7 Day Chronic Pimephal	100	100
TX0024686	3/31/2020	TX1A	NOEC Lethal Static Renewal 7 Day Chronic Pimephal	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1A	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0024686	1/31/2020	TX1A	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0024686	2/29/2020	TX1A	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100
TX0024686	3/31/2020	TX1A	NOEC Sub-Lethal Static Renewal 7 Day Chronic Pime	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	12/31/2019	TX1A	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0024686	1/31/2020	TX1A	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0024686	2/29/2020	TX1A	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0
TX0024686	3/31/2020	TX1A	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Pi	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1A	Whole effluent toxicity	100	100
TX0024686	1/31/2020	TX1A	Whole effluent toxicity	100	100
TX0024686	2/29/2020	TX1A	Whole effluent toxicity	100	100
TX0024686	3/31/2020	TX1A	Whole effluent toxicity	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	9/30/2020	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	12/31/2020	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	100	100
TX0024686	3/31/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	6/30/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	9/30/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	12/31/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	3/31/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	6/30/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	9/30/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	12/31/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	3/31/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	6/30/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	9/30/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	12/31/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	3/31/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	6/30/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	9/30/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	12/31/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100
TX0024686	3/31/2025	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Ceriodaphn	>100	>100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	9/30/2020	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	12/31/2020	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	3/31/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	6/30/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	9/30/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	100	>100
TX0024686	12/31/2021	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	3/31/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	6/30/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100

TX0024686	9/30/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	12/31/2022	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	3/31/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	6/30/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	9/30/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	12/31/2023	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	3/31/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	6/30/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	9/30/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	12/31/2024	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100
TX0024686	3/31/2025	TX1Q	IC25 Lethal Static Renewal 7 Day Chronic Pimephales	>100	>100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2020	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2025	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2020	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0

TX0024686	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2022	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2023	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	6/30/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	9/30/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	12/31/2024	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0
TX0024686	3/31/2025	TX1Q	IC25 Low Flow Pass/Fail Lethal Static Renewal 7 Day	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2025	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2020	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0

TX0024686	3/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2021	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2022	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2023	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	6/30/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	9/30/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	12/31/2024	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0
TX0024686	3/31/2025	TX1Q	IC25 Low Flow Pass/Fail Sub-Lethal Static Renewal 7	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	9/30/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	12/31/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	3/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	100	>100
TX0024686	6/30/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	9/30/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	12/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	3/31/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	6/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	9/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	12/31/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	3/31/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	6/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	9/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	12/31/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	3/31/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	6/30/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	9/30/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	12/31/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100
TX0024686	3/31/2025	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Ceriod	>100	>100

EPA ID				Reported Measure	Reported Measure

	Monitoring Period	Outfall	Parameter	7 DA MIN (%)	MO AV MN (%)
TX0024686	9/30/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	12/31/2020	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	3/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	6/30/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	9/30/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	12/31/2021	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	3/31/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	6/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	9/30/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	12/31/2022	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	3/31/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	6/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	9/30/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	12/31/2023	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	3/31/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	6/30/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	9/30/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	12/31/2024	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100
TX0024686	3/31/2025	TX1Q	IC25 Sub-Lethal Static Renewal 7 Day Chronic Pimepl	>100	>100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	12/31/2020	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	3/31/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	6/30/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	9/30/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	12/31/2021	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	3/31/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	6/30/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	9/30/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	12/31/2022	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	3/31/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	6/30/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	9/30/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	12/31/2023	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	3/31/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	6/30/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	9/30/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9
TX0024686	12/31/2024	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9

TX0024686	3/31/2025	TX1Q	Whole effluent toxicity - retest #1	NODI=9	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	9/30/2020	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	12/31/2020	TX1Q	Whole effluent toxicity - retest #2	NODI=8	NODI=8
TX0024686	3/31/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	6/30/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	9/30/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	12/31/2021	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	3/31/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	6/30/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	9/30/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	12/31/2022	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	3/31/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	6/30/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	9/30/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	12/31/2023	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	3/31/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	6/30/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	9/30/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	12/31/2024	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9
TX0024686	3/31/2025	TX1Q	Whole effluent toxicity - retest #2	NODI=9	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1S	LOEC Lethal Survival Static Renewal 7 Day Chronic C	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1S	LOEC Sub-Lethal Reproduction Static Renewal 7 Day	NODI=Q	NODI=Q

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	12/31/2019	TX1S	Low Flow Pass/Fail Survival Test Static Renewal 7 Da	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1S	NOEC Lethal Static Renewal 7 Day Chronic Ceriodaph	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1S	NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceric	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (pass=0;fail=	Reported Measure MO AV MN (pass=0;fail=1)
TX0024686	12/31/2019	TX1S	Pass/Fail Sub-Lethal Static Renewal 7 Day Chronic Ce	0	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure 7 DA MIN (%)	Reported Measure MO AV MN (%)
TX0024686	12/31/2019	TX1S	Whole effluent toxicity	100	100

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0024686	12/31/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	12/31/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	12/31/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	6/30/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0
TX0024686	12/31/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute D. Pulex	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0024686	12/31/2019	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	12/31/2020	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	6/30/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	12/31/2021	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	6/30/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	12/31/2022	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	6/30/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	12/31/2023	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0
TX0024686	6/30/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0

TX0024686	12/31/2024	TXAS	LC50 Pass/Fail Static 24Hr Acute Pimephales promela	0

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0024686	12/31/2019	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	12/31/2020	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	6/30/2021	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	12/31/2021	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	6/30/2022	TXAS	Whole effluent toxicity - retest #1	0
TX0024686	12/31/2022	TXAS	Whole effluent toxicity - retest #1	0
TX0024686	6/30/2023	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	12/31/2023	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	6/30/2024	TXAS	Whole effluent toxicity - retest #1	NODI=9
TX0024686	12/31/2024	TXAS	Whole effluent toxicity - retest #1	NODI=9

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (pass=0;fail=1)
TX0024686	12/31/2019	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	12/31/2020	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	6/30/2021	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	12/31/2021	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	6/30/2022	TXAS	Whole effluent toxicity - retest #2	0
TX0024686	12/31/2022	TXAS	Whole effluent toxicity - retest #2	0
TX0024686	6/30/2023	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	12/31/2023	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	6/30/2024	TXAS	Whole effluent toxicity - retest #2	NODI=9
TX0024686	12/31/2024	TXAS	Whole effluent toxicity - retest #2	NODI=9

Senate Bill 709 (84th Legislative Session, 2015) amended the Texas Water Code by adding new Section 5.5553, which requires the Texas Commission on Environmental Quality (TCEQ) to provide written notice to you at least thirty (30) days prior to the TCEQ's issuance of draft permits for applications that are located in your district.

City of Garland, 200 North 5th Street, Garland, Texas 75040, has applied to the TCEQ to renew Texas Pollutant Discharge Elimination System Permit No. WQ0010090002 (EPA I.D. No. TX0024686) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 24,000,000 gallons per day. The domestic wastewater facility is located at 2500 East Centerville Road, in the city of Garland, in Dallas County, Texas 75040. The discharge route is from the plant site to Duck Creek, thence to East Fork Trinity River in Segment No. 0819 of the Trinity River Basin. TCEQ received this application on October 29, 2024. The permit application will be available for viewing and copying at South Garland Branch Library, Reference, 4845 Broadway Boulevard, Garland, in Dallas County, Texas. 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 is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.5986,32.90327&level=18-

TCEQ is preparing the initial draft permit. At the time the draft permit is issued, the applicant will be required to publish notice in a newspaper of general circulation, and the TCEQ will provide a copy of the notice of draft permit to persons who have requested to be on a mailing list.

Questions regarding this application may be directed to Mr. Deba Dutta, P.E., by calling 512-239-4608.

Issuance Date: _____

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 **City of Garland's** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **October 29, 1984,** and modified on **May 28, 1993, February 27, 2010** (partial nonsubstantial Streamlining Rule for the City of Garland only), **October 14, 2020** (nonsubstantial Streamlining Rule), and on **March 1, 2022** (TBLLs).

   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 shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued permit, either:

   1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; **or**

   2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev. 10/14/05]*, and applicable state and local law, including an Enforcement Response Plan and

Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

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 every six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once every three 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 every three 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 **October** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **October** 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, 2023, 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 June 2020

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)						
										REPORTS						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				BMR	90-Day	Semi-Annual	Self-Monitoring[8]	NSCIU Certifications	Effluent Limits	Narrative Standards

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 Results[1]

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											
4,4-DDT											

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-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				
PCB-1016							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
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											
Hexachlorophene											

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'-Isoproplidenediphenolediphenol (biphenol 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 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:

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/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.

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

Date: June 27, 2025

To: Municipal Team

Thru: Jessica Alcoser, Pretreatment Team Leader

From: Amy Golden, Pretreatment Coordinator

Subject: Pretreatment program option for the TPDES Permit No. WQ0010090002, City of Garland – City of Garland Rowlett Creek WWTP summary sheet

I have reviewed the above referenced permit and have placed this memo, and the following standard and any additional language in the corresponding Permits folder.

Option 3 - General Pretreatment language for POTWs with *regulated* industrial users on the collection system and with an approved Program.

Within this standard language, the Pretreatment Program has not incorporated additional pretreatment language requirements. Please incorporate the following language for permittee's FACT SHEET, if applicable, under:

1. INDUSTRIAL WASTE CONTRIBUTION

The City of Garland Rowlett Creek WWTP receives significant industrial wastewater contributions.

2. 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 October 29, 1984, and modified on May 28, 1993, February 27, 2010 (partial nonsubstantial Streamlining Rule for the City of Garland only), October 14, 2020 (nonsubstantial Streamlining Rule), and March 1, 2022 (TBLLs). 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 **October** 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 permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued permit, either: (1) a **WRITTEN CERTIFICATION** that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs Reassessment Form No. TCEQ-20221], **OR** (2) a **WRITTEN NOTIFICATION** that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 *[rev. 10/14/05]* and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of the permit.

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.

3. SUMMARY OF CHANGES FROM EXISTING PERMIT

The pretreatment language has been updated from the current permit. The pretreatment requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Sarah Musgrove, Water Quality Assessment Team
Water Quality Assessment Section

Date: February 24, 2025

Subject: City of Garland
Wastewater Permit No. WQ0010090002
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **3** for a perennial freshwater ditch, stream, or river.

This discharge is to Duck Creek.

Segment No.	0819
Effluent Flow for Aquatic Life (MGD)	24.0 (Permitted)
Critical Low Flow [7Q2] (cfs)	1.15
Effluent Flow for Human Health (MGD)	24.0 (Permitted)
Harmonic Mean Flow (cfs)	1.65
Public Water Supply?	No

Human Health criteria apply for Fish Only.

The chronic aquatic life mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

OUTFALL LOCATION [1]

Outfall Number	Latitude	Longitude
001	32.86883 N	96.630016 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Orlando M. Vasquez, Jr., P.E.
Water Quality Assessment Team
Water Quality Assessment Section

Date: March 05, 2025

Subject: City of Garland
Permit Renewal (WQ0010090002, TX0024686)
Discharge to a tributary of the East Fork Trinity River (Segment No. 0819) of the Trinity River Basin

The referenced applicant is proposing to renew its permit authorizing the discharge of 24.0 MGD of treated domestic wastewater into the watershed of East Fork Trinity River (Segment No. 0819). The facility is located in Dallas County.

This permit action is for renewal of an existing authorization. A dissolved oxygen modeling analysis was previously performed for this permit on November 27, 2007, by Mark A. Rudolph. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. Therefore, the existing effluent sets of **10 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 6.0 mg/L DO (April to November) and 10 mg/L $CBOD_5$, 5 mg/L NH_3-N, and 4.0 mg/L DO (December to March)** are applicable to this permit. No additional modeling work was performed for the current permit action.

Segment No. 0819 is currently listed on the State's inventory of impaired and threatened waters, the **2022** Clean Water Act Section 303(d) list. The listing is for bacteria in water from the confluence with the Trinity River in Kaufman County to Rockwall-Forney Dam in Kaufman County (AU 0819_01).

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Orlando M. Vasquez, Jr., P.E.
Water Quality Assessment Team
Water Quality Assessment Section

Date: June 30, 2025

Subject: City of Garland
Permit Renewal (WQ0010090002, TX0024686)
Discharge to a tributary of the East Fork Trinity River (Segment No. 0819) of the Trinity River Basin

This memo supersedes the previous memo dated March 5, 2025.

The referenced applicant is proposing to renew its permit authorizing the discharge of 24.0 MGD of treated domestic wastewater into the watershed of East Fork Trinity River (Segment No. 0819). The facility is located in Dallas County.

This permit action is for renewal of an existing authorization. A dissolved oxygen modeling analysis was previously performed for this permit on November 27, 2007, by Mark A. Rudolph. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. Therefore, the existing effluent sets of **10 mg/L $CBOD_5$, 2 mg/L NH_3-N, and 6.0 mg/L DO (April to November) and 10 mg/L $CBOD_5$, 4 mg/L NH_3-N, and 4.0 mg/L DO (December to March)** are applicable to this permit. No additional modeling work was performed for the current permit action.

Segment No. 0819 is currently listed on the State's inventory of impaired and threatened waters, the **2022** Clean Water Act Section 303(d) list. The listing is for bacteria in water from the confluence with the Trinity River in Kaufman County to Rockwall-Forney Dam in Kaufman County (AU 0819_01).

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Jenna R. Lueg, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: 6/30/2025

Subject: City of Garland; Permit no. WQ0010090002
Renewal, Application received 10/29/2024

This memo supersedes memo from March 5, 2025.

The discharge route for the above referenced permit is to Duck Creek, thence to East Fork Trinity River in Segment 0819 of the Trinity River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 0819 are primary contact recreation, intermediate aquatic life use, and 4.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with 30 Texas Administrative Code §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

Duck Creek; intermediate aquatic life use; 4.0 mg/L dissolved oxygen.

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.

The Standards Implementation Team recommends reporting for total dissolved solids based on a TDS screen.

Regarding the primary dissolved solids screening for the immediate receiving water, Duck Creek, chloride and sulfate screening are not needed based on the following:

Page 174 of the Procedures to Implement the Texas Surface Water Quality Standards (2010) (IPs) states that screening for TDS is usually sufficient unless the ionic ratios of chloride or sulfate are out of balance. It has been demonstrated that ionic imbalances cause WET testing failures by overwhelming the osmotic capacities of the organisms being tested. Consistent with TCEQ's EPA-approved WET testing procedures, a reasonable potential (RP) determination was made for this facility based on the last three years of WET testing data. A determination of no RP was made based on those results. Therefore, it can be concluded that the ionic ratios of dissolved solids are not skewed and are protective of aquatic life. Furthermore, consistent with our dissolved solids procedures as written in the TCEQ IPs, screening for chloride and sulfate is not required.

Note that additional dissolved solids screening was performed for the classified segment, East Fork Trinity River (Segment 0819), including TDS, chloride, and sulfate, to ensure that segment numerical criteria would not be exceed at the segment. Based on this additional screening, segment criteria will be maintained and protected, therefore no additional limits or monitoring requirements are needed for chloride, or sulfate.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michael Pfeil, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: February 25, 2025

Subject: City of Garland
Rowlett Creek WWTP
Permit No. WQ0010090002

WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)

The following information applies to Outfall 001. We recommend freshwater chronic and 24-hour acute testing. For chronic testing, we recommend the water flea (*Ceriodaphnia dubia*) and the fathead minnow (*Pimephales promelas*) as test species and a testing frequency of once per quarter for both test species. We recommend a dilution series of 32%, 42%, 56%, 75%, and 100% with a critical dilution of 100%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend we recommend a water flea (*Ceriodaphnia dubia* or *Daphnia pulex*) and the fathead minnow as test species and a testing frequency of once per six months. In the past five years, the permittee has performed ten 24-hour acute tests, with no demonstrations of significant mortality.

REASONABLE POTENTIAL (RP) DETERMINATION

In the past five years, the permittee performed twenty-two chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures).

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 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 zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Jenna R. Lueg, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: 3/5/2025

Subject: City of Garland; Permit no. WQ0010090002
Renewal, Application received 10/29/2024

The discharge route for the above referenced permit is to Duck Creek; thence to East Fork Trinity River in Segment 0819 of the Trinity River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 1202 are primary contact recreation, intermediate aquatic life use, and 4.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with 30 Texas Administrative Code §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

Duck Creek; intermediate aquatic life use; 4.0 mg/L dissolved oxygen.

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.

The Standards Implementation Team recommends reporting for total dissolved solids based on a TDS screen.

Regarding the primary dissolved solids screening for the immediate receiving water, Duck Creek, chloride and sulfate screening are not needed based on the following:

Page 174 of the Procedures to Implement the Texas Surface Water Quality Standards (2010) (IPs) states that screening for TDS is usually sufficient unless the ionic ratios of chloride or sulfate are out of balance. It has been demonstrated that ionic imbalances cause WET testing failures by overwhelming the osmotic capacities of the organisms being tested. Consistent with TCEQ's EPA-approved WET testing procedures, a reasonable potential (RP) determination was made for this facility based on the last three years of WET testing data. A determination of no RP was made based on those results. Therefore, it can be concluded that the ionic ratios of dissolved solids are not skewed and are protective of aquatic life. Furthermore, consistent with our dissolved solids procedures as written in the TCEQ IPs, screening for chloride and sulfate is not required.

Note that additional dissolved solids screening was performed for the classified segment, East Fork Trinity River (Segment 0819), including TDS, chloride, and sulfate, to ensure that segment numerical criteria would not be exceed at the segment. Based on this additional screening, segment criteria will be maintained and protected, therefore no additional limits or monitoring requirements are needed for chloride, or sulfate.

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	**City of Garland**
Permit Number, Outfall:	**WQ0010090002, 001**
Segment Number:	**0819**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**24**	MGD	Permit application
QS - Perennial stream harmonic mean flow	**1.65**	cfs	Critical conditions memo
QE - Average effluent flow	**37.1335**	cfs	Calculated
CA - TDS - ambient segment concentration	**372**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration		mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration		mg/L	2010 IP, Appendix D
CC - TDS - criterion	**600**	mg/L	Site Specific Criteria
CC - chloride - segment criterion		mg/L	2018 TSWQS, Appendix A
CC - sulfate - segment criterion		mg/L	2018 TSWQS, Appendix A
CE - TDS - average effluent concentration	**605.93**	mg/L	Permit application
CE - chloride - average effluent concentration		mg/L	Permit application
CE - sulfate - average effluent concentration		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.**
Parameter	**QSCA**	**QECE**	**Equation 2**	**Ambient**	**Capacity**
TDS	613.8	22500.31	595.98	60.2	98.2
Chloride	0	0	0.00	#DIV/0!	#DIV/0!
Sulfate	0	0	0.00	#DIV/0!	#DIV/0!

No further screening for TDS needed if:	**595.98**	**≤**	**600**
No further screening for chloride needed if:	**0.00**	**≤**	**0**
No further screening for sulfate needed if:	**0.00**	**≤**	**0**

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	610.13
Calculate the LTA	LTA = WLA * 0.93	567.42
Calculate the daily average	Daily Avg. = LTA * 1.47	**834.11**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**1764.68**
Calculate 70% of the daily average	70% of Daily Avg. =	583.88
Calculate 85% of the daily average	85% of Daily Avg. =	708.99

No permit limitations needed if:	**605.93**	**≤**	**583.88**		
Reporting needed if:	**605.93**	**>**	**583.88**	**but ≤**	**708.99**
Permit limits may be needed if:	**605.93**	**>**	**708.99**		

Reporting needed for TDS

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE				0.00
Calculate the LTA	LTA = WLA * 0.93				0.00
Calculate the daily average	Daily Avg. = LTA * 1.47				**0.00**
Calculate the daily maximum	Daily Max. = LTA * 3.11				**0.00**
Calculate 70% of the daily average	70% of Daily Avg. =				0.00
Calculate 85% of the daily average	85% of Daily Avg. =				0.00
No permit limitations needed if:	**0**	**≤**	**0.00**		
Reporting needed if:	**0**	**>**	**0.00**	**but ≤**	**0.00**
Permit limits may be needed if:	**0**	**>**	**0.00**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE				0.00
Calculate the LTA	LTA = WLA * 0.93				0.00
Calculate the daily average	Daily Avg. = LTA * 1.47				**0.00**
Calculate the daily maximum	Daily Max. = LTA * 3.11				**0.00**
Calculate 70% of the daily average	70% of Daily Avg. =				0.00
Calculate 85% of the daily average	85% of Daily Avg. =				0.00
No permit limitations needed if:	**0**	**≤**	**0.00**		
Reporting needed if:	**0**	**>**	**0.00**	**but ≤**	**0.00**
Permit limits may be needed if:	**0**	**>**	**0.00**		

No permit limitations needed for sulfate