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 Round Rock (CN600413181), City of Cedar Park (CN600407951), City of Austin (CN600135198), and City of Leander (CN600646012) operate the Brushy Creek Regional West Wastewater Treatment Facility (RN100822592), a plug-flow activated sludge wastewater treatment facility. The facility is located at 1116 East Austin Avenue, in Round Rock, Williamson County, Texas 78664. This application is for a renewal to discharge an annual average flow of 3,000,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 5-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, total phosphorus, and *E. coli*. Domestic wastewater is treated by two mechanical fine screens, two aeration basins, two secondary clarifiers, and an ultraviolet disinfection system.

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 federal de la solicitud de permiso.

La cuidad de Round Rock (CN600413181), la cuidad de Cedar Park (CN600407951), la cuidad de Austin (CN600135198) y la cuidad de Leander (CN600646012) operan la instalación de tratamiento de aguas residuales del Brushy Creek Regional West (RN100822592), una instalación de tratamiento de aguas residuales de lodos activados de flujo pistón. La instalación está ubicada en 1116 East Austin Avenue, en la cuidad de Round Rock, Condado de Williamson, Texas 78664. Esta solicitud es para una renovación para descargar un flujo promedio anual de 3,000,000 de galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica carbonosa de oxígeno de 5 días, sólidos suspendidos totales, nitrógeno amoniacal, fósforo total, y *E. coli*. Aguas residuales domésticas son tratadas por dos cribas finas mecánicas, dos cuencas de aireación, dos clarificadores secundarios y un sistema de desinfección ultravioleta.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010264001

APPLICATION. City of Austin, City of Cedar Park, City of Leander, and City of Round Rock, 221 East Main Street, Round Rock, Texas 78664, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001 (EPA I.D. No. TX0075167) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 3,000,000 gallons per day. The domestic wastewater treatment facility is located at 1116 East Austin Avenue, in the city of Round Rock, in Willamson County, Texas 78664. The discharge route is from the plant site directly to Brushy Creek. TCEQ received this application on September 9, 2024. The permit application will be available for viewing and copying at the Utilities and Environmental Services Building, customer service desk, 3400 Sunrise Road, Round Rock, 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=-97.666111,30.513888&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 Austin, City of Cedar Park, City of Leander, and City of Round Rock at the address stated above or by calling Mr. Michael Thane, P.E., Director - Utilities and Environmental Services, City of Round Rock at 512-218-3236.

Issuance Date: October 22, 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. WQ0010264001

SOLICITUD. La ciudad de Round Rock, la cuidad de Austin, la ciudad de Cedar Park, y la ciudad de Leander, 221 East Main Street, Round Rock, Texas 78664**,** han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010264001 (EPA I.D. No. TX0075167) 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 anual de 3,000,000 galones por día. La planta está ubicada en 1116 East Austin Avenue, en la cuidad de Round Rock, en el Condado de Williamson, Texas 78664. La ruta de descarga es del sitio de la planta directamente al Brushy Creek. La TCEQ recibió esta solicitud el 9 de septiembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en el mostrador de atención al cliente del Edificio de Servicios Públicos y Ambientales, 3400 Sunrise Road, Round Rock, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico del sitio o la ubicación general 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=-97.666111,30.513888&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 o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado 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 DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión debe ser presentado a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional de la ciudad de Round Rock, la cuidad de Austin, la ciudad de Cedar Park, y la ciudad de Leander a la dirección indicada arriba o llamando a Sr. Michael Thane, P.E., Director de Servicios Públicos y Medioambientales, al 512-218-3236.

Fecha de emisión 22 de octubre de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010264001

APPLICATION AND PRELIMINARY DECISION. City of Round Rock, City of Cedar Park, City of Austin, and City of Leander, 221 East Main Street, Round Rock, Texas 78664, have applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 3,000,000 gallons per day. TCEQ received this application on September 9, 2024.

The facility is located at 1116 East Austin Avenue, in the City of Round Rock, Willamson County, Texas 78664. The treated effluent is discharged directly to Brushy Creek in Segment No. 1244 of the Brazos River Basin. The designated uses for Segment No. 1244 are primary contact recreation, public water supply, aquifer protection, and high 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=-97.666667,30513889. &level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a permit draft. 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 the Utilities and Environmental Services Building, customer service desk, 3400 Sunrise Road, Round Rock, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permit/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 Round Rock, City of Cedar Park, City of Austin, and City of Leander at the address stated above or by calling Mr. Michael Thane, P.E., Director - Utilities and Environmental Services, City of Round Rock at 512-218-3236.

Issuance Date: October 9, 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. WQ0010264001

SOLICITUD Y DECISIÓN PRELIMINAR. La ciudad de Round Rock, la ciudad de Cedar Park, la cuidad de Austin, y la ciudad de Leander, 221 East Main Street, Round Rock, Texas 78664, han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para la renovación del Permiso No. WQ0010264001 del TPDES, que autoriza la descarga de aguas residuales domésticas tratadas con un flujo promedio anual que no exceda los 3,000,000 de galones por día. La TCEQ recibió esta solicitud el 9 de septiembre de 2024.

La planta está ubicada en 1116 East Austin Avenue, en la cuidad de Round Rock, en el Condado de Williamson, Texas 78664. El efluente tratado es descargado directamente al Brushy Creek en el Segmento No. 1244 de la Cuenca del Río Brazos. Los usos designados para el Segmento No. 1244 son recreación de contacto primario, abastecimiento de agua potable, protección de acuíferos, y usos elevados de la vida acuática. 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=-97.666667,30.513889&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en el mostrador de atención al cliente del Edificio de Servicios Públicos y Ambientales, 3400 Sunrise Road, Round Rock, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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 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 públicos escritos y las solicitudes de reuniones públicas deben enviarse a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a www.tceq.texas.gov/goto/comment **dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico**.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener más información sobre el estado de la solicitud, visite la Base de Datos Integrada de Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos el número de permiso de esta solicitud, que se encuentra en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a www.tceq.texas.gov/goto/comment, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a 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 Round Rock, la ciudad de Cedar Park, la cuidad de Austin, y la ciudad de Leander a la dirección indicada arriba o llamando al Sr. Michael Thane, P.E., Director de Servicios Públicos y Medioambientales, al 512-218-3236.

Fecha de emission: el 9 de octubre de 2025

PLUMMER

RECEIVED

SEP 09 2024

TCEQ MAIL CENTER
DA

0982-021-01

September 9, 2024

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team
MC-148
PO Box 13087
Austin, TX 78711

Re: City of Round Rock (CN600413181), City of Cedar Park (CN600407951), City of Austin (CN600135198), and City of Leander (CN600646012)
Brushy Creek Regional West Wastewater Treatment Facility (RN100822592)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001

To Whom It May Concern:

On behalf of City of Round Rock, City of Cedar Park, City of Austin, and City of Leander, Plummer Associates, Inc. (Plummer) submits one original and two copies of a renewal application for the above-referenced permit. The application fee of $2,015.00 for the Domestic Wastewater Permit Application has been submitted to the Texas Commission on Environmental Quality Cashier's Office (MC-214) under separate cover.

Please feel free to contact me at alewis@plummer.com or (512) 687-2154, if you have any questions regarding this submittal.

Sincerely Yours,

PLUMMER

Ashley Lewis
Water Quality/Permitting Team Leader

Enclosures: Permit Renewal Application (1 original, 2 copies)

cc: Ms. Laurie Hadley, City of Round Rock, City Manger
Ms. Brenda Eviens, City of Cedar Park, City Manager
Ms. Shay Ralls Roalson, City of Austin, Director of Austin Water
Mr. Todd Parton, City of Leander, City Manager

8911 N Capital of Texas Hwy, Bldg 1 Ste 1250
Austin, Texas 78759
Phone 512.452.9905
Plummer.com
TBPE Firm No. 13 https://apaienv.sharepoint.com/sites/msteams_30842a-internal/Shared Documents/Internal/05 Project Work/05 Brushy Creek West Permitting/01 Permit Application/2024-09-09 Renewal App Transmittal Ltr.docx

CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER

BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY

TPDES PERMIT RENEWAL APPLICATION PERMIT NO. WQ0010264001

SUBMITTED TO:
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SEPTEMBER 2024
PROJECT #: 0982-021-01

PLUMMER

CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF CONTENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Round Rock, City of Cedar Park, City of Austin, and City of Leander

PERMIT NUMBER (If new, leave blank): WQ0010264001

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: 10080173

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Round Rock

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ N/A

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 10264001

EPA I.D. (TPDES only): TX 0075167

Expiration Date: 3/11/2025

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 Round Rock

(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: 600413181

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

Prefix: Ms. Last Name, First Name: Hadley, Laurie

Title: City Manager Credential:

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?

City of Cedar Park

(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: 600407951

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

Prefix: Ms. Last Name, First Name: Eivens, Brenda

Title: City Manager Credential:

Provide a brief description of the need for a co-permittee: Co-owner of Brushy Creek Regional West Wastewater Treatment Facility

C. 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?

City of Austin

(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: 600135198

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

Prefix: Ms. Last Name, First Name: Roalson, Shay Ralls

Title: Director of Austin Water Credential: P.E.

Provide a brief description of the need for a co-permittee: Co-owner of Brushy Creek Regional West Wastewater Treatment Facility

D. 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?

City of Leander

(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: 600646012

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: Parton, Todd

Title: City Manager Credential:

Provide a brief description of the need for a co-permittee: Co-owner of Brushy Creek Regional West Wastewater Treatment Facility

E. 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. A

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: Thane, Michael

Title: Director - Utilities and Environmental Services Credential: P.E.

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3236 E-mail Address: mthane@roundrocktexas.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms. Last Name, First Name: Lewis, Ashley

Title: Water Quality/Permitting Team Leader Credential:

Organization Name: Plummer Associates, Inc.

Mailing Address: 8911 N Capital of Texas Hwy, Bldg 1 - Ste 1250 City, State, Zip Code: Austin, TX 78759

Phone No.: (512) 687-2154 E-mail Address: alewis@plummer.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Thane, Michael

Title: Director - Utilities and Environmental Services Credential: P.E.

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3236 E-mail Address: mthane@roundrocktexas.gov

B. Prefix: Mr. Last Name, First Name: Carr, Laton

Title: Principal Utility Engineer - Utilities and Environmental Services Credential: P.E.

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3238 E-mail Address: lcarr@roundrocktexas.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: Thane, Michael

Title: Director - Utilities and Environmental Services Credential: P.E.

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3236 E-mail Address: mthane@roundrocktexas.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: Heaps, John

Title: Superintendent – Utilities Services Credential:

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-6637 E-mail Address: jheaps@roundrocktexas.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Griesel, Jenni

Title: Project Engineer Credential: P.E.

Organization Name: Plummer Associates, Inc.

Mailing Address: 8911 N Capital of Texas Hwy, Bldg 1 - Ste 1250 City, State, Zip Code: Austin, TX 78759

Phone No.: (512) 687-2193 E-mail Address: jgriesel@plummer.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Thane, Michael

Title: Director - Utilities and Environmental Services Credential: P.E.

Organization Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3236 E-mail Address: mthane@roundrocktexas.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: Utilities and Environmental Services Building

Location within the building: Customer Service Desk

Physical Address of Building: 3400 Sunrise Rd

City: Round Rock County: Williamson

Contact (Last Name, First Name): Carr, Laton

Phone No.: (512) 218-3238 Ext.:

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: B

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** 100822592

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):

Brushy Creek Regional West Wastewater Treatment Facility

C. Owner of treatment facility: City of Round Rock, City of Cedar Park, City of Austin, and City of Leander

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 Round Rock, City of Cedar Park, City of Austin, and City of Leander

Mailing Address: 212 E. Main Street City, State, Zip Code: Round Rock, TX 78664

Phone No.: (512) 218-5410 E-mail Address: lhadley@roundrocktexas.gov

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: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: N/A

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on

property owned or controlled by the applicant)::

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

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☒ No

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

1116 East Austin Avenue, Round Rock, Williamson County, TX 78664

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): Round Rock

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

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 N/A

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: N/A

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 N/A – Not a TLAP

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

N/A

B. City nearest the disposal site: N/A

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

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

N/A

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: 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 — See Attachment C
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: See Table of Contents

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010264001

Applicant: City of Round Rock

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): Laurie Hadley

Signatory title: City Manager, City of Round Rock

Signature: Laurie Hadley Date: Aug. 23, 2024

(Use blue ink)

Subscribed and Sworn to before me by the said Laurie Hadley, City Mgr

on this 23rd day of August, 20 24.

My commission expires on the 22nd day of March, 20 26

Monique Adams

Notary Public

MONIQUE ADAMS
My Notary ID # 126257913
Expires March 22, 2026

[SEAL]

Williamson

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010264001

Applicant: City of Cedar Park

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): Brenda Eivens

Signatory title: City Manager, City of Cedar Park

Signature: Brenda Eivens Date: 8/15/2024 KW

(Use blue ink)

Subscribed and Sworn to before me by the said Brenda Eivens

on this 15th day of August, 2024.

My commission expires on the 25th day of June, 2025.

Debra Hargrove

Notary Public

DEBRA HARGROVE
My Notary ID # 10899977
Expires June 25, 2025

[SEAL]

Williamson

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010264001

Applicant: City of Austin

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): Shay Ralls Roalson

Signatory title: Director of Austin Water, City of Austin

Signature: Shay Ralls Roalson Date: 7/31/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Shay Ralls Roalson

on this 31st day of July, 2024.

My commission expires on the 21st day of June, 2025.

Deborah L. Ockletree

Notary Public

DEBORAH L OCKLETREE
Notary ID 128173787
My Commission Expires
June 21, 2025

Travis

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010264001

Applicant: City of Leander

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): Todd Parton

Signatory title: City Manager, City of Leander

Signature: _____ Date: 7/30/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Todd Parton

on this 30th day of July, 20 24.

My commission expires on the 30th day of May, 20 28.

Jacqueline Winkler

Notary Public [SEAL]

Williamson

County, Texas

JACQUELINE WINKLER NOTARY PUBLIC STATE OF TEXAS ID: 134924803 EXP: 05-30-2028

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 Round Rock, City of Cedar Park, City of Austin, and City of Leander

   Permit No. WQ00 10264001 EPA ID No. TX 0075167

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

   1116 East Austin Avenue, Round Rock, Williamson County, TX 78664

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: Michael Thane

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Director – Utilities and Environmental Services

Mailing Address: 3400 Sunrise Rd

City, State, Zip Code: Round Rock, TX 78665

Phone No.: (512) 218-3236 Ext.: N/A Fax No.: (512) 218-5563

E-mail Address: mthane@roundrocktexas.gov

2. List the county in which the facility is located: Williamson
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 – Property owners and permittees/applicants are the same.

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.

Directly to Brushy Creek in Segment No. 1244 of the Brazos 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 SPIF 1 and SPIF 2

Provide original photographs of any structures 50 years or older on the property. N/A

Does your project involve any of the following? Check all that apply. None 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

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

Existing disturbances and land use are typical for a wastewater treatment facility of this size.

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:

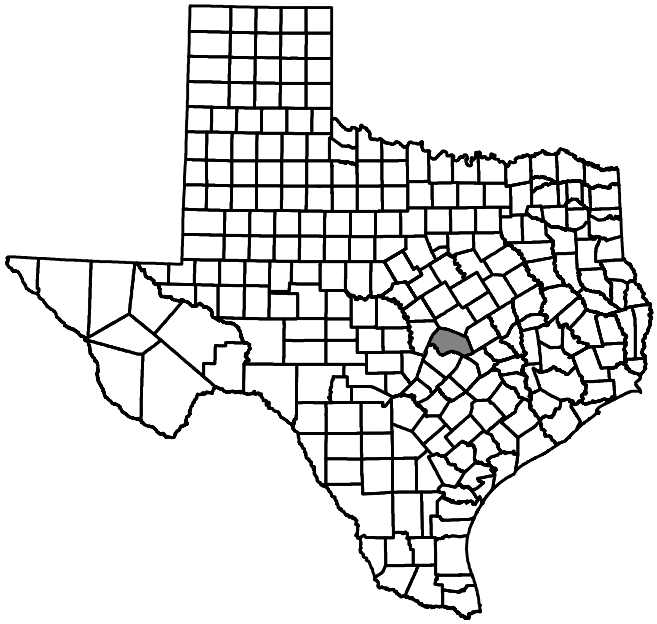
N/A

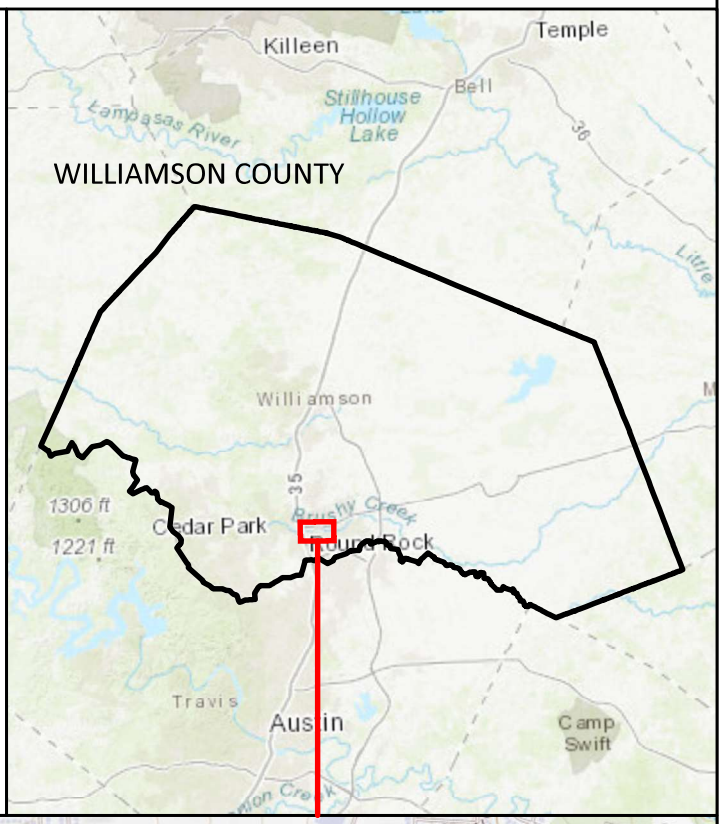
4. Provide a brief history of the property, and name of the architect/builder, if known.

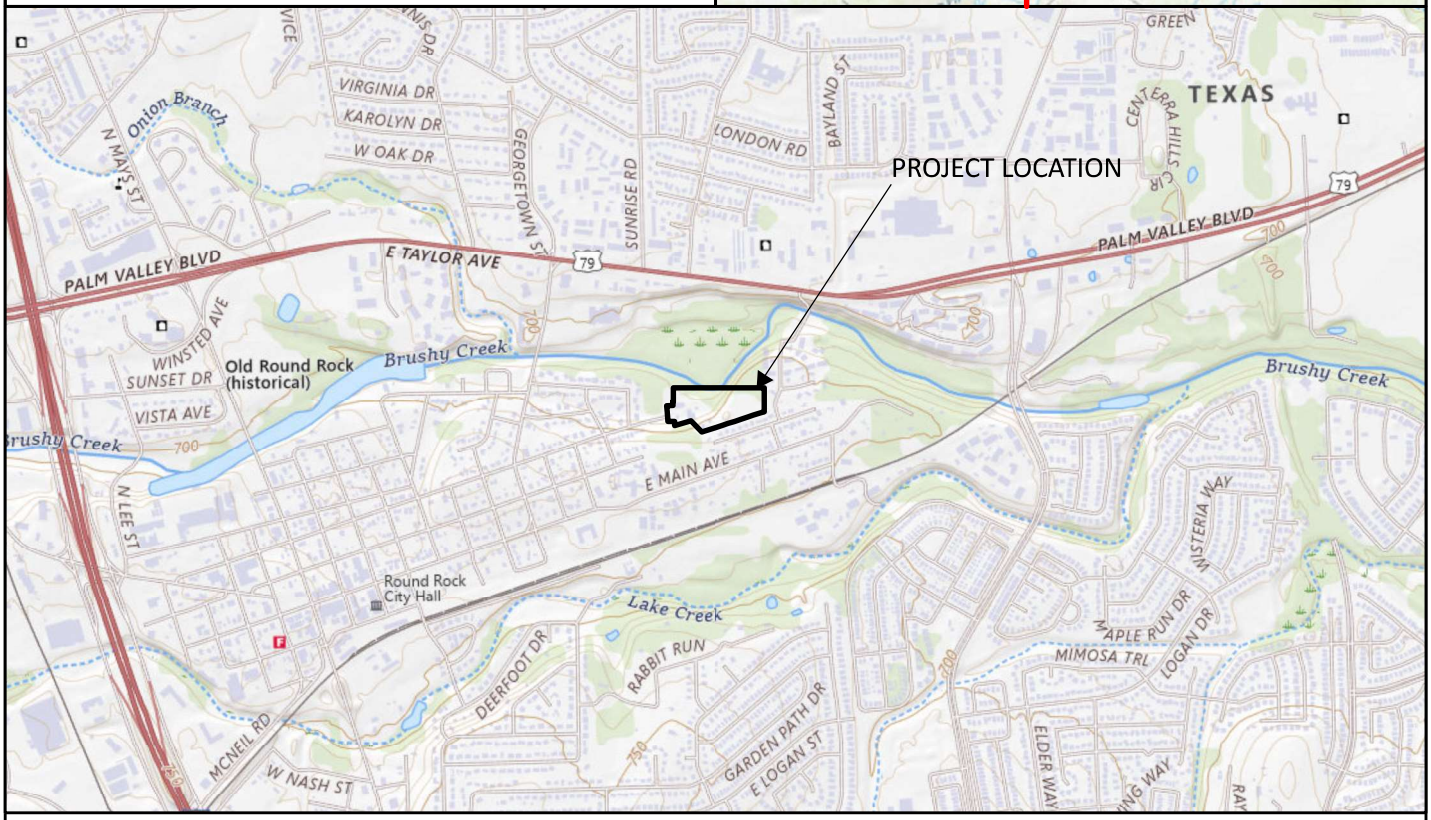
N/A

PLUMMER

N

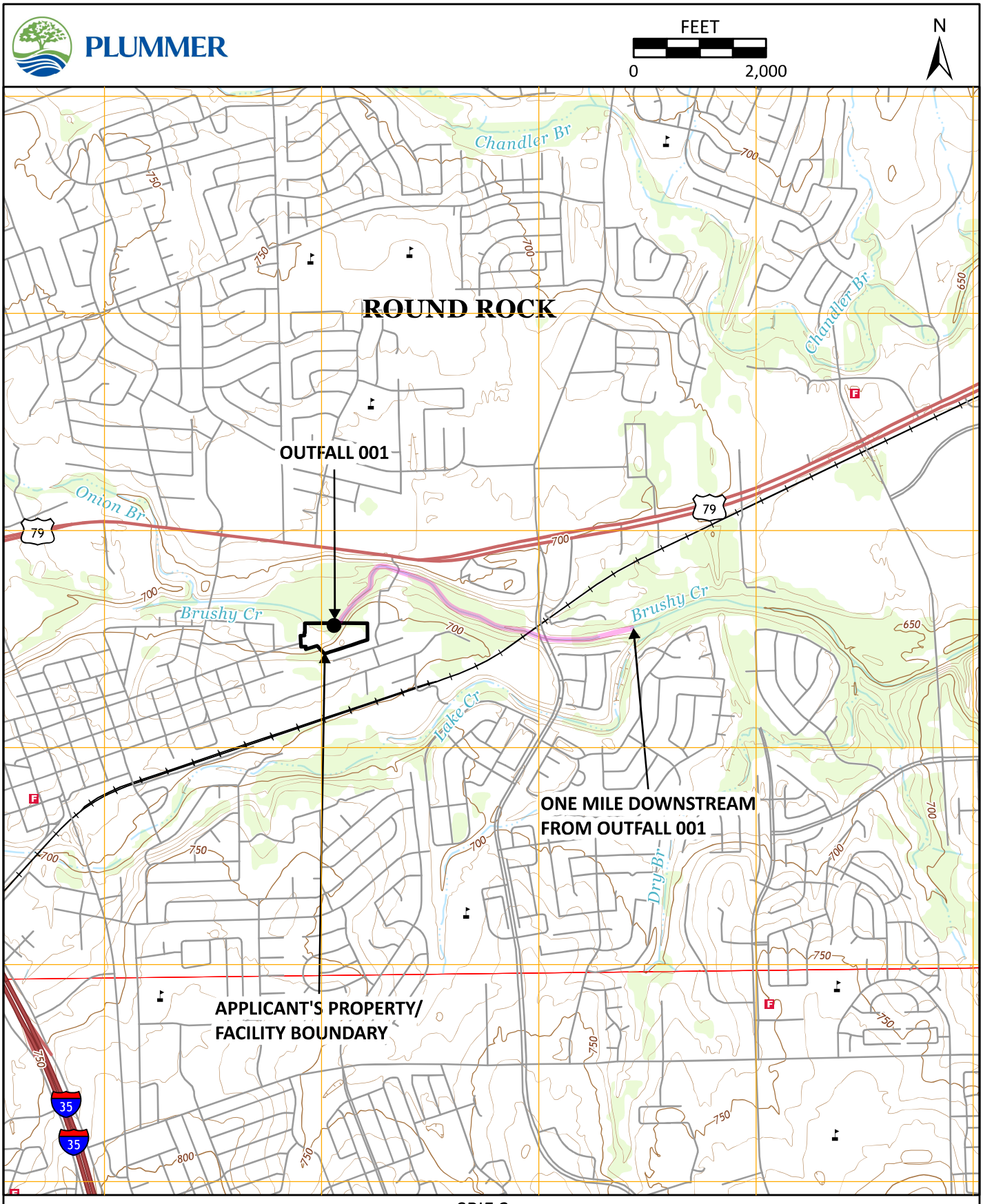






SPIF 1
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
GENERAL LOCATION MAP

TEXAS REGISTERED ENGINEERING FIRM F-13
C:\Users\jgriesel\Plummer\0982-021-01 - Internal - Internal\05 Project Work\03 GIS\BCW ATTACHMENTS.aprx



SPIF 2

CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER

BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY

TPDES PERMIT RENEWAL APPLICATION

USGS MAP

TEXAS REGISTERED ENGINEERING FIRM F-13

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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): 3.0

2-Hr Peak Flow (MGD): 9.0

Estimated construction start date: Existing

Estimated waste disposal start date: Existing

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: 1978

Section 2. Treatment Process (Instructions Page 43)

A. Process Description

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**.

Wastewater treatment is a plug-flow activated sludge wastewater treatment facility that includes two mechanical fine screens, two aeration basins, two secondary clarifiers, and an ultraviolet disinfection system prior to discharging into Brushy Creek Segment No. 1244. The aeration basins are equipped with fine bubble membranes diffusers with floor coverage of up to 20% in the first 5 of 6 zones in one bull's eye; and the first 3 of 5 zones in the second bull's eye. The plant includes return activated sludge, scum, and waste activated air lift pumps. Sludge is returned from the bottom of the clarifier to the aeration basins. Waste activated sludge is taken from the aeration basin and conveyed to the Brushy Creek Regional East Wastewater Treatment Facility (same Owner and Operator as this facility) to allow centralized dewatering for the two plants.

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)
Selector Basins	2	1 - 17,624 ft^3, 15 ft D x 17'-0" W 1 - 21,032 ft^3, 15 ft D x 16'-7" W
Aeration Basins	2	1 - 61,685 ft^3, 15 ft D x 17'-0" W 1 - 73, 956 ft^3, 15 ft D x 16'-7" W
Clarifiers	2	1 - 80 ft Diameter, 15 ft SWD 1 - 103 ft Diameter, 15 ft SWD
UV Disinfection System	1	36.5 ft L x 2.33 ft W x 1.21 ft D

C. Process Flow Diagram

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

Attachment: D

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

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

- Latitude: 30.514557
- Longitude: -97.665391

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: E

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

The facility serves portions of Round Rock, Cedar Park, Leander, Fern Bluffs Municipal Utility District (MUD), Brushy Creek MUD and parts of North Austin.

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
West Round Rock	City of Round Rock	Publicly Owned	5,000
Cedar Park	City of Cedar Park	Publicly Owned	5,000
North Austin	City of Austin	Publicly Owned	5,000
Leander	City of Leander	Publicly Owned	5,000
Fern Bluffs MUD	Fern Bluffs Municipal Utility District	Publicly Owned	2,000
Brushy Creek MUD	Brushy Creek Municipal Utility District	Publicly Owned	6,000

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 N/A

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 N/A

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: 5/14/2014

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**.

The summary transmittal letter for the existing phase was submitted 3/28/2014 and approved by TCEQ on 5/14/2014.

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.

The permittees comply with a nuisance odor prevention plan in accordance with 30 TAC§ 309.13(e)(2) approved on May 14, 2014. (TCEQ Log No. 0414/004).

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*.

N/A

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 N/A

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 FR27 or TXRNE

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

☐ Yes ☐ No N/A

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

N/A

4. *Existing coverage in individual permit*

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

☐ Yes ☒ No

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

N/A

5. *Zero stormwater discharge*

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

☐ Yes ☒ No

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

N/A

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

6. *Request for coverage in individual permit*

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

☐ Yes ☒ No

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the 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.

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	1.58	2.94	9	Comp	4/1 – 4/30/ 2024
Total Suspended Solids, mg/l	2.5	2.5	9	Comp	4/1 – 4/30/ 2024
Ammonia Nitrogen, mg/l	0.266	0.672	9	Comp	4/1 – 4/30/ 2024
Nitrate Nitrogen, mg/l	11.1	12.6	3	Comp.	2/28 - 7/23/ 2024
Total Kjeldahl Nitrogen, mg/l	4.73	4.73	1	Comp.	8/26/2024 11:59 PM

Sulfate, mg/l	47.4	47.4	1	Comp.	7/23/2024 11:59 PM
Chloride, mg/l	211	211	1	Comp.	7/23/2024 11:59 PM
Total Phosphorus, mg/l	0.209	0.247	2	Comp.	2/28/24 5/8/2024
pH, standard units	7.11	6.87 – 7.6	30	Grab	4/1 – 4/30/ 2024
Dissolved Oxygen*, mg/l	7.87	7.21 (Min)	30	Grab	4/1 – 4/30/ 2024
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
E.coli (CFU/100ml) freshwater	4.79	12.2	3	Grab	4/1 – 4/30/ 2024
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	625	625	1	Comp.	7/23/2024 11:59 PM
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<1.42	2.11	2	Grab	2/28/24 5/8/24
Alkalinity ($CaCO_3$)*, mg/l	128	128	1	Comp.	7/23/2024 11:59 PM

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Tom Villanueva

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

Facility Operator's License Number: WW0046666; Class A License Pending

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: Waste activated sludge is transported to Brushy Creek Regional East Wastewater Treatment Facility, which is also owned and operated by the applicant.

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
Other	Off-site Handler or Preparer	Not Applicable	N/A	N/A	N/A

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Waste activated sludge is transported to Brushy Creek Regional East Wastewater Treatment Facility, which is also owned and operated by the applicant.

D. Disposal site

Disposal site name: Brushy Creek Regional East Wastewater Treatment Facility

TCEQ permit or registration number: WQ0010264002

County where disposal site is located: Williamson

E. Transportation method

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

Name of the hauler: N/A

Hauler registration number: N/A

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 N/A

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 N/A

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 N/A

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 N/A

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:

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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: Laurie Hadley

Title: City Manager, City of Round Rock

Signature: Laurie Hadley

Date: 8/23/2024

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: Brenda Eivens

Title: City Manager, City of Cedar Park

Signature: Brenda Eivens KW

Date: 8/15/2024

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: Shay Ralls Roalson

Title: Director of Austin Water, City of Austin

Signature: Shay Ralls Roalson

Date: 7/31/2024

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: Todd Parton

Title: City Manager, City of Leander

Signature: _____

Date: 7/24/2024

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 N/A

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 N/A

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: N/A

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

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:

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.

N/A

Date and time of observation:

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:

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:

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 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 ☒

Date and time sample(s) collected: See Attachment F

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	29.5	31.8	2	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	2	5
Arsenic	1.0	<2	2	0.5
Barium	41.9	44.0	2	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	<1	<1	2	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<10	<10	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	2	3
Chromium (Tri) **(*1)**	<3	<3	2	N/A
Chromium (Hex)	<3	<3	2	3
Copper	3.75	4.19	2	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol	<10	<10	1	10
Cyanide **(*2)**	<10	<10	2	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	0.776	0.776	1	0.7
Demeton (O and S)	<0.2	<0.2	1	0.20
Diazinon	<0.1	<0.1	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09
Endosulfan I (alpha)	<0.01	<0.01	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	<500	<500	2	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	2	0.5
Malathion	<0.1	<0.1	1	0.1
Mercury	<0.005	<0.005	2	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	<2.5	<3	2	2
Nitrate-Nitrogen	11,100	12,600	3	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5
Phenanthrene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	2	5
Silver	<0.75	<1	2	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	2	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	0.914	0.914	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	38.9	41.7	2	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☒

Date and time sample(s) collected: See Attachment F

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	<5	<5	2	5
Arsenic	1.0	<2	2	0.5
Beryllium	<0.5	<0.5	2	0.5
Cadmium	<1	<1	2	1
Chromium (Total)	<3	<3	2	3
Chromium (Hex)	<3	<3	2	3
Chromium (Tri) **(*1)**	<3	<3	2	N/A
Copper	3.75	4.19	2	2
Lead	<0.5	<0.5	2	0.5
Mercury	<0.005	<0.005	2	0.005
Nickel	<2.5	<3	2	2
Selenium	<5	<5	2	5
Silver	<0.75	<1	2	0.5
Thallium	<0.5	<0.5	2	0.5
Zinc	38.9	41.7	2	5
Cyanide **(*2)**	<10	<10	2	10
Phenols, Total	<10	<10	2	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	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	<10	<10	1	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	1	10

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E – Pesticides

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

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

N/A

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

☐ Yes ☒ No

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

N/A

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic 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: See Attachment G

48-hour Acute: See Attachment G

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

N/A

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	See Attachment G		

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: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

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 N/A

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: N/A

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 H				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

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

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *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: N/A

N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION

TABLE OF ATTACHMENTS

ATTACHMENT A

Core Data Form
Admin Rpt 1.0, Section 3.C

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 **Change in Ownership**

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 600413181		**RN 100822592**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	11/12/2024

☐ 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 Round Rock	

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	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher	☐ **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:	212 East Main Street						
	City	Round Rock	**State**	TX	**ZIP**	78664	**ZIP + 4**	5245

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

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

(512) 218-5410		(512) 218-7097

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.)*

Brushy Creek Regional West Wastewaster Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	1116 East Austin Avenue							
	City	Round Rock	**State**	TX	**ZIP**	78664	**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Round Rock			TX		78664

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
30	30	50	97	40	0

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 domestic wastewater

34. Mailing Address:	**3400 Sunrise Road**							
	City	**Round Rock**	**State**	**TX**	**ZIP**	**78665**	**ZIP + 4**	**2398**
35. E-Mail Address:	**mthane@roundrocktexas.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 218-3236		**(512) 218-5563**

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:
	WQ0010264001			

SECTION IV: Preparer Information

40. Name:	Jenni Griesel	41. Title:	Project Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 687-2193		( ) -	jgriesel@plummer.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 Round Rock	**Job Title:**	City Manager
Name *(In Print):*	Laurie Hadley	**Phone:**	(512) 218- **5410**
Signature:	Laurie Hadley	**Date:**	8/23/2024

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.

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1. Reason for Submission (*If other is checked please describe in space provided.*)

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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 600407951		**RN 100822592**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 11/12/2024

☐ 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 Cedar Park

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:	450 Cypress Creek Road							
	Bldg 1							
	City	Cedar Park	**State**	TX	**ZIP**	78613	**ZIP + 4**	3000

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	brenda.eivens@cedarparktexas.gov

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

(512) 401-5010		(512) 250-8602

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

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	City	Round Rock	**State**	TX	**ZIP**	78664	**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Round Rock			TX		78664

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
30	30	50	97	40	0

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 domestic wastewater

34. Mailing Address:	**3400 Sunrise Road**							
	City	**Round Rock**	**State**	**TX**	**ZIP**	**78665**	**ZIP + 4**	**2398**
35. E-Mail Address:	**mthane@roundrocktexas.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 218-3236		**(512) 218-5563**

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:
	WQ0010264001			

SECTION IV: Preparer Information

40. Name:	Jenni Griesel	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 687-2193		( ) -	jgriesel@plummer.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 Cedar Park	Job Title:	City Manager	
Name *(In Print)*:	Brenda Eivens		Phone:	(512) 401- 5010
Signature:	Brenda Eivens KW		Date:	8/15/2024

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 **Change in Ownership**

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 600135198		**RN 100822592**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 11/12/2024

☐ 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 Austin

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:

625 East 10th Street
Suite 800

City	Austin	State	TX	ZIP	78701	ZIP + 4	2612

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	shay.roalson@austintexas.gov

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

(512) 972-0108		(512) 972-0111

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.)*

Brushy Creek Regional West Wastewaster Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	1116 East Austin Avenue							
	City	Round Rock	**State**	TX	**ZIP**	78664	**ZIP + 4**	
24. County	Williamson							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Round Rock			TX		78664

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
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4952		221320	

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

Treatment of domestic wastewater

34. Mailing Address:	**3400 Sunrise Road**							
	City	**Round Rock**	**State**	**TX**	**ZIP**	**78665**	**ZIP + 4**	**2398**
35. E-Mail Address:	**mthane@roundrocktexas.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 218-3236		**(512) 218-5563**

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:
	WQ0010264001			

SECTION IV: Preparer Information

40. Name:	Jenni Griesel	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 687-2193		( ) -	jgriesel@plummer.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 Austin	Job Title:	Director of Austin Water
Name *(In Print)*:	Shay Ralls Roalson	Phone:	(512) 972- 0108
Signature:	Shay Ralls Roalson	Date:	7/31/2024

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 **Change in Ownership**

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 600646012		**RN 100822592**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	11/12/2024

☐ 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 Leander	

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	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher	☐ **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:	201 N. Brushy Street						
	City	Leander	**State**	TX	**ZIP**	78641	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
N/A	iturner@leandertx.gov

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

(512) 528-2929		( ) -

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.)*

Brushy Creek Regional West Wastewaster Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	1116 East Austin Avenue							
	City	Round Rock	**State**	TX	**ZIP**	78664	**ZIP + 4**	
24. County	Williamson							

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

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4952		221320	

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

Treatment of domestic wastewater

34. Mailing Address:	**3400 Sunrise Road**							
	City	**Round Rock**	**State**	**TX**	**ZIP**	**78665**	**ZIP + 4**	**2398**
35. E-Mail Address:	**mthane@roundrocktexas.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(512) 218-3236		**(512) 218-5563**

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:
	WQ0010264001			

SECTION IV: Preparer Information

40. Name:	Jenni Griesel	41. Title:	Project Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 687-2193		( ) -	jgriesel@plummer.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 Leander	Job Title:	City Manager
Name *(In Print)*:	Todd Parton	Phone:	(512) 528-2929
Signature:		Date:	1/30/2024

ATTACHMENT B

Plain Language Summary
Admin Rpt 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 Round Rock (CN600413181), City of Cedar Park (CN600407951), City of Austin (CN600135198), and City of Leander (CN600646012) operate the Brushy Creek Regional West Wastewater Treatment Facility (RN100822592), a plug-flow activated sludge wastewater treatment facility. The facility is located at 1116 East Austin Avenue, in Round Rock, Williamson County, Texas 78664. This application is for a renewal to discharge an annual average flow of 3,000,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain 5-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, total phosphorus, and *E. coli*. Domestic wastewater is treated by two mechanical fine screens, two aeration basins, two secondary clarifiers, and an ultraviolet disinfection system.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

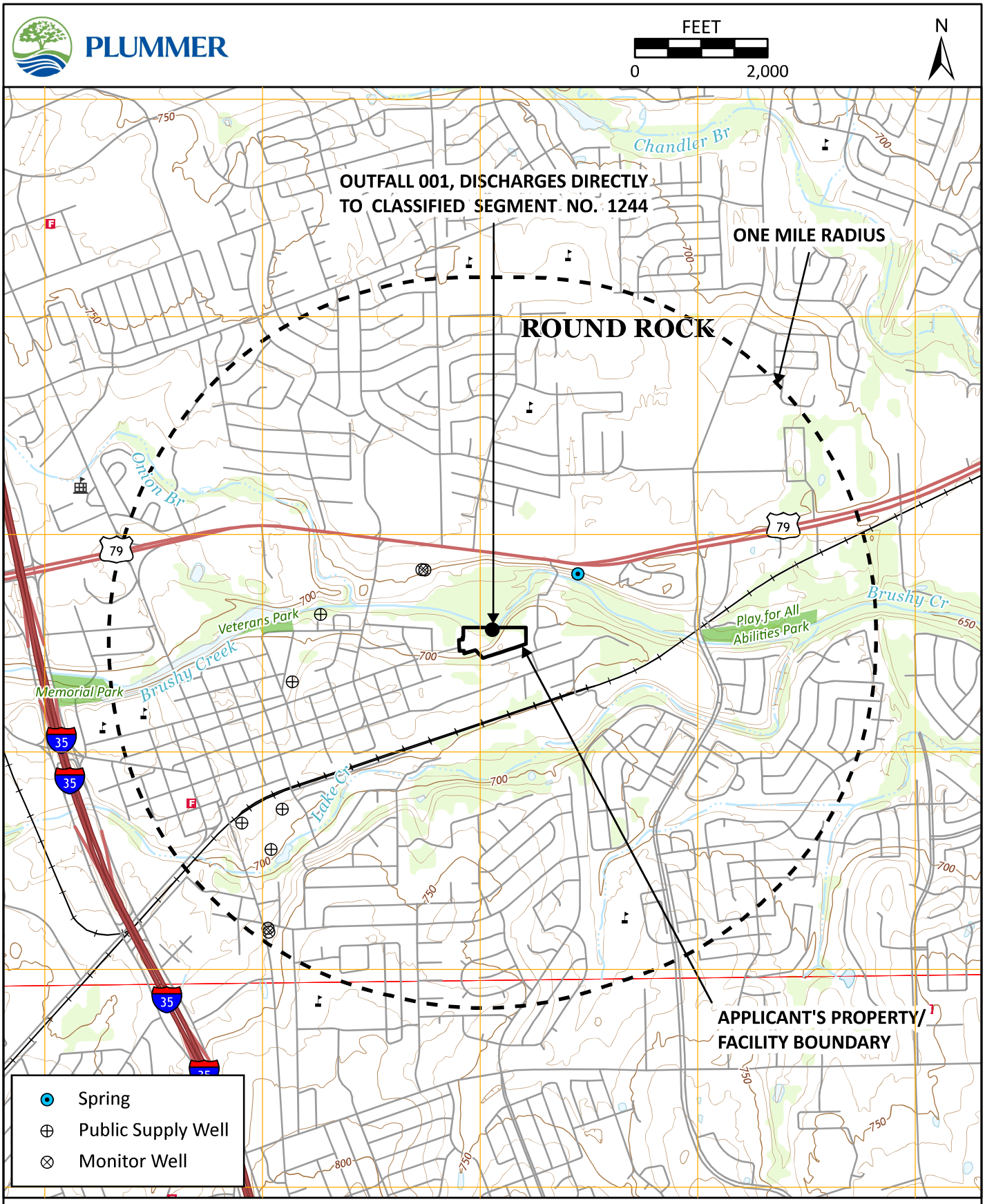
El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar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

La cuidad de Round Rock (CN600413181), la cuidad de Cedar Park (CN600407951), la cuidad de Austin (CN600135198) y la cuidad de Leander (CN600646012) operan la instalación de tratamiento de aguas residuales del Brushy Creek Regional West (RN100822592), una instalación de tratamiento de aguas residuales de lodos activados de flujo pistón. La instalación está ubicada en 1116 East Austin Avenue, en la cuidad de Round Rock, Condado de Williamson, Texas 78664. Esta solicitud es para una renovación para descargar un flujo promedio anual de 3,000,000 de galones por día de aguas residuales domésticas tratadas.

Se espera que las descargas de la instalación contengan demanda bioquímica carbonosa de oxígeno de 5 días, sólidos suspendidos totales, nitrógeno amoniacal, fósforo total, y *E. coli*. Aguas residuales domésticas son tratadas por dos cribas finas mecánicas, dos cuencas de aireación, dos clarificadores secundarios y un sistema de desinfección ultravioleta.

ATTACHMENT C

USGS Map
Admin Rpt 1.0, Section 13



TEXAS REGISTERED ENGINEERING FIRM F-13
C:\Users\jgriesel\Plummer\0982-021-01 - Internal - Internal\05 Project Work\03 GIS\BCW ATTACHMENTS.aprx

ATTACHMENT C
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
USGS MAP

ATTACHMENT D

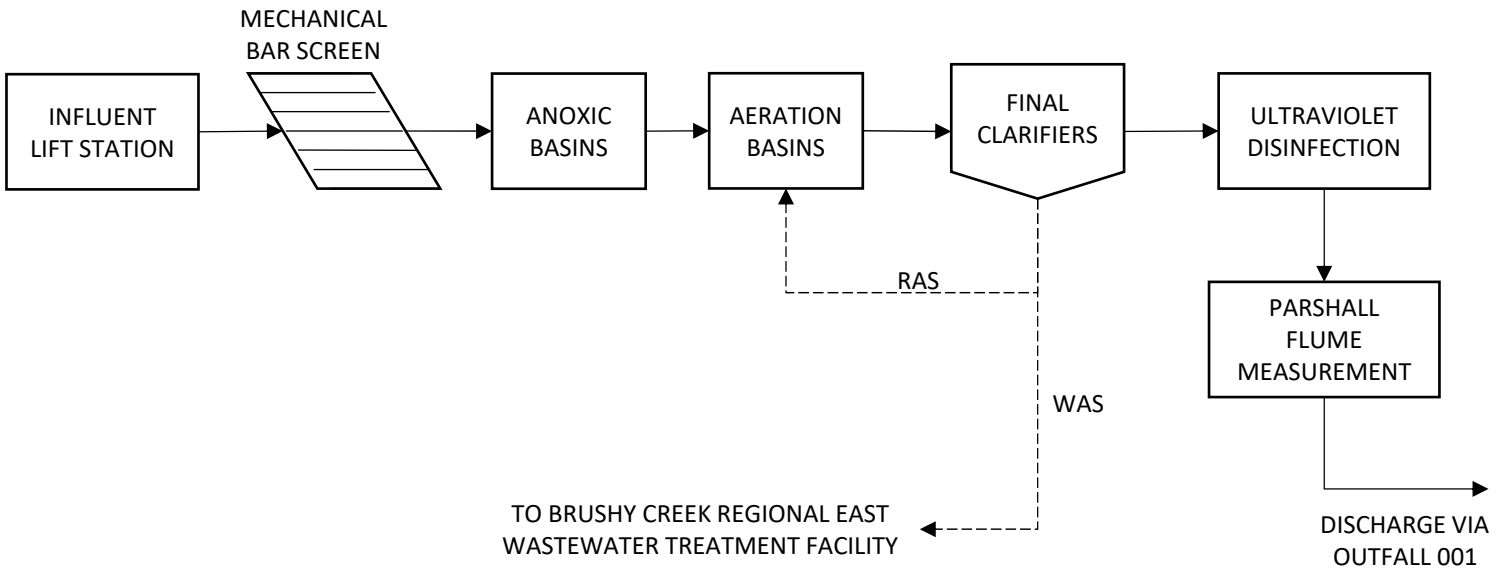
Process Flow Diagram
Tech Rpt 1.0, Section 2.C

PLUMMER

LEGEND

FLOW STREAM, LIQUIDS

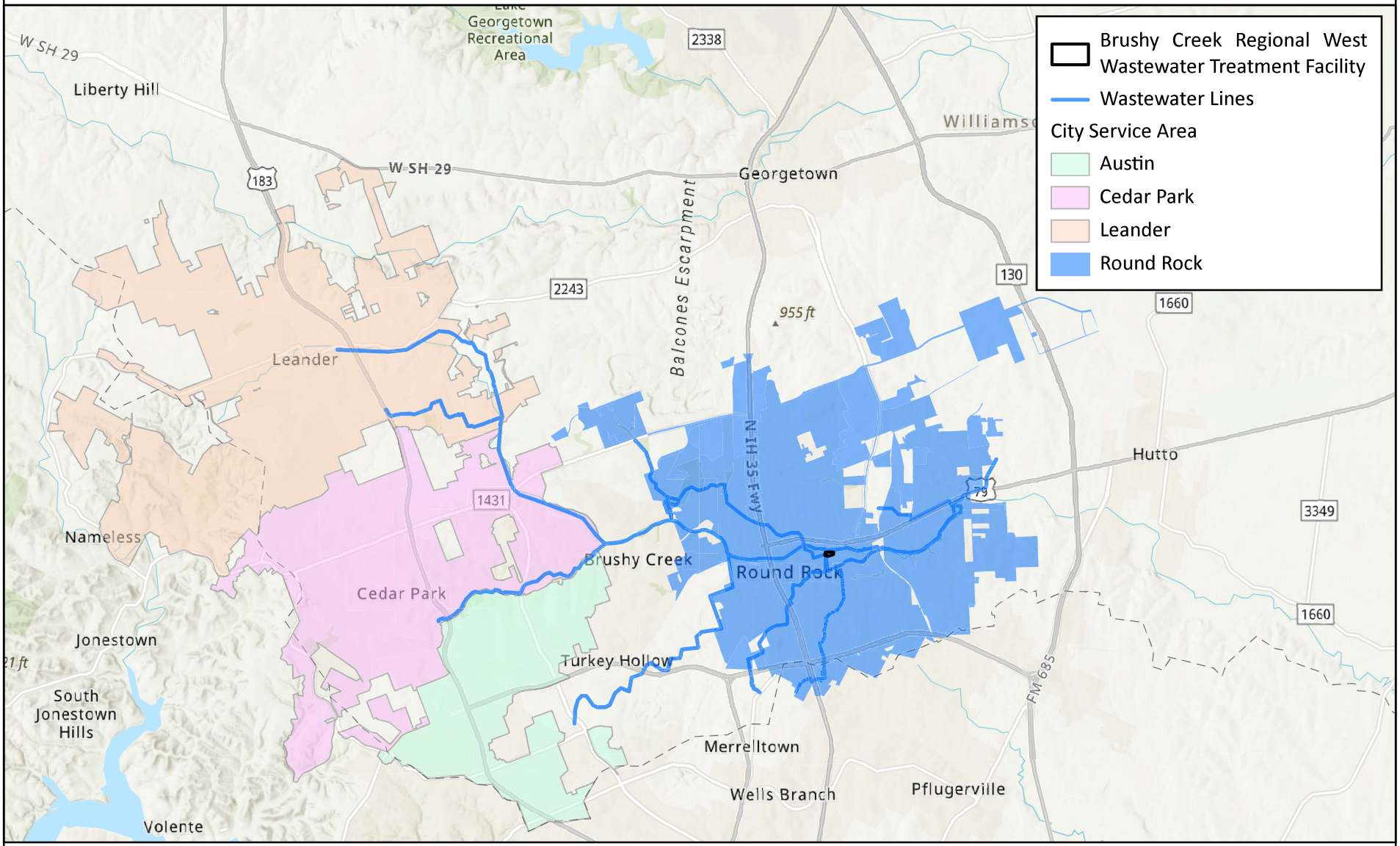
FLOW STREAM, SOLIDS



ATTACHMENT D
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
PROCESS FLOW DIAGRAM

ATTACHMENT E

Site Drawing
Tech Rpt 1.0, Section 3



TEXAS REGISTERED ENGINEERING FIRM F-13
C:\Users\jgriesel\Plummer\0982-021-01 - Internal - Internal\05 Project Work\03 GIS\BCW ATTACHMENTS.aprx

ATTACHMENT E
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SITE DRAWING

ATTACHMENT F

Pollutant Analysis of Treated Effluent
Tech Rpt 1.0, Section 7; Wks 4.0 Section 1 & 2

March 22, 2024

Ryan Bornn
CITY OF ROUND ROCK
2008 Enterprise
ROUND ROCK, Texas 78664
TEL: (512) 218-5561
FAX:

Order No.: 2402342

RE: IPP West Plant SHORT QTR

Dear Ryan Bornn:

DHL Analytical, Inc. received 6 sample(s) on 2/27/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-23-29

Table of Contents

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundRocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 02/27/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2402342 2/27/24

PROJECT LOCATION OR NAME: IPP West Plant SHORT QTR
CLIENT PROJECT #
COLLECTOR: Ian Villarreal

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only / DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ✓	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐	Zn Acetate ☐	ICE ✓	UNPRESERVE ✓	ANALYSES	FIELD NOTES
Influent Grab 1	01	02/27/24	12:00	W	G	1	✓						✓			LLg-HCL
Influent Grab 1	↓	02/27/24	12:00	W	P	1							✓			CR(VI) ICE

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 8260 ☐ VOC 624.1 ☐ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TX11 ☐ _____ | pH ☐ HEX CHROM ✓ | ALKALINITY ☐ COD ☐ ✓ | ANIONS 300 ☐ 9056 ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ IGN ☐ DOAS ☐ OIL&GREASE ☐ | TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐ | LL Hg ✓

Relinquished By: (Sign)	DATE/TIME	Received by:
	2.27.24	
Relinquished By: (Sign)	DATE/TIME	Received by:
02/27/2024	1:25	
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY
RECEIVING TEMP (°C): 4.1°C **THERMO #:** 78
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock	DATE: 02/28/2024	**LAB USE ONLY** DHL WORKORDER #: 2402342
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665	**PO#:**	
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov	PROJECT LOCATION OR NAME: IPP WEST Plant SHORT QTR	
DATA REPORTED TO: rbornn@roundRocktexas.gov		
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov	CLIENT PROJECT #	COLLECTOR: Tom Villarreal

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION HCL ✓	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐	Zn Acetate ☐	ICE ✓	UNPRESERVE ✓	ANALYSES																									FIELD NOTES
															BTEX ☐ MTBE ☐ (METHOD 8260)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☐ DRO 8015 ☐	VOC 8260 ☐ VOC 624.1 ☐	SVOC 8270 ☐ SVOC 625.1 ☐	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 ☐ T PHOS ☐ AMMONIA ☐	METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐	pH ☐ HEX CHROM ✓	ALKNITY ☐ COD ☐ ✓	ANIONS 300 ☐ 9056 ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐	LL Hg			
Effluent Grab 1	02	02/27/24	23:59	W	G	1	✓						✓																						✓				LLg-HCL
Effluent Grab 1	↓	02/27/24	23:59	W	P	1							✓																										CR(VI) ICE

Relinquished By: (Sign)	DATE/TIME 2.28.24	Received by:
Relinquished By: (Sign)	DATE/TIME 02/28/2024 08:10	Received by:
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 4.3°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 02/29/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2402342

PROJECT LOCATION OR NAME: IPP West Short Qtr.
CLIENT PROJECT #
COLLECTOR: Tom Villarreal

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ✓	Zn Acetate ☐	ICE ✓	UNPRESERVED ✓	ANALYSES	Total Phenol	FIELD NOTES
Influent Grab 1	03	02/27/24	12:00	W	Varies	3				✓	✓		✓			✓	O&G H2SO4
Influent Grab 2	↓	02/27/24	18:00	W	Varies	3				✓	✓		✓			✓	Cyanide NaOH
Influent Grab 3		02/27/24	23:59	W	Varies	3				✓	✓		✓			✓	VOC ICE
Influent Grab 4	↓	02/28/24	06:00	W	Varies	3				✓	✓		✓			✓	

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 8260 ☐ VOC 624.1 ☐ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TR11 ☐ _____ | pHD HEX CHROM ☐ ALKALINITY ☐ COD ☐ | ANIONS 300 ☐ 9056 ☐ _____ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ IGN ☐ DEAS ☐ OIL&GREASE ✓ | TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ✓

Relinquished By: (Sign) — DATE/TIME: 2-29-24 — Received by:
Relinquished By: (Sign) — DATE/TIME: 2/29/2024 09:05 — Received by:
Relinquished By: (Sign) — DATE/TIME — Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ✓ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.5°C, 0.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☐ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☐ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 02/29/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2402342

PROJECT LOCATION OR NAME: IPP West Short Qtr.
CLIENT PROJECT #
COLLECTOR: Tom Villarreal

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION HCl ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ✓	Zn Acetate ☐	ICE ✓	UNPRESERVED ✓	ANALYSES	FIELD NOTES
Effluent Grab 1	04	02/27/24	23:59	W	Varies	3				✓	✓		✓			O&G H2SO4
Effluent Grab 2	↓	02/28/24	06:00	W	Varies	3				✓	✓		✓			Cyanide NaOH
Effluent Grab 3		02/28/24	12:00	W	Varies	3				✓	✓		✓			VOC ICE
Effluent Grab 4	↓	02/28/24	18:00	W	Varies	3				✓	✓		✓			

ANALYSES: BTEX ☐ MTBE ☐ [METHOD 8260] | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 8260 ☐ VOC 624.1 ☐ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TX11 ☐ ____ | pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ | ANIONS 300 ☐ 9056 ☐ ____ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ✓ IGN ☐ OGAS ☐ OIL&GREASE ✓ | TDS ✓ TSS ☐ % MOIST ☐ CYANIDE ✓ | Total Phenol ✓

Relinquished By: (Sign)	DATE/TIME	Received by:
	2.29.24	
Relinquished By: (Sign)	DATE/TIME	Received by:
	02/29/2024 09:05	
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ✓ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.5°C, 0.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

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Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 02/29/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2402342

PROJECT LOCATION OR NAME: IPP WEST SHORT Qtr.
CLIENT PROJECT #
COLLECTOR: Tom Villanueva

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐ H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐ Zn Acetate ☐	ICE ✓ UNPRESERVE ✓	ANALYSES	FIELD NOTES
Influent Comp	05	02/28/24	12:00	W	P	1		✓			✓	Flouride Nitrate	24 Hr. Comp
Influent Comp	↓	02/28/24	12:00	W	P	1			✓		✓	HERB 8321 ☐ T PHOS ✓ AMMONIA ☐	24 Hr. Comp
Influent Comp	↓	02/28/24	12:00	W	P	1					✓	METALS 6020 ☐ 200.8 ☑ DISS. METALS ☐	24 Hr. Comp
													24 Hr. Comp

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Relinquished By: (Sign) DATE/TIME 02/29/2024 08:05 Received by:
Relinquished By: (Sign) DATE/TIME Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.5°C 0.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 02/29/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2402342

PROJECT LOCATION OR NAME: IPP WEST SHORT Qtr.
CLIENT PROJECT #
COLLECTOR: Ian Villanueva

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Lab Use Only: W=WATER L=LIQUID S=SOIL SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl ☐ H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐ Zn Acetate ☐	ICE ☑ UNPRESERVE ☑	ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☐ DRO 8015 ☐	VOC 8260 ☐ VOC 624.1 ☐	SVOC 8270 ☐ SVOC 625.1 ☐	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 ☐ T PHOS ☑ AMMONIA ☐	METALS 6020 ☐ 200.8 ☑ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐	pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	ANIONS 300 ☐ 9056 ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ D&AS ☐ OIL&GREASE ☐	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐	Organics E. 632	Fluoride Nitrate		FIELD NOTES
Effluent Comp	06	02/28/24	23:59	W	P	1		✓			✓											✓												24 Hr. Comp
Effluent Comp	↓	02/28/24	23:59	W	P	1			✓		✓										✓														24 Hr. Comp
Effluent Comp	↓	02/28/24	23:59	W	P	1					✓																					✓		24 Hr. Comp

Relinquished By: (Sign)	DATE/TIME	Received by:
	2.29.24 13:47	
Relinquished By: (Sign)	DATE/TIME	Received by:
	02/29/2024 09:05	
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐ RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 0.5°C, 0.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

Brushy Creek West WWTP
Short Quarter IPP Monitoring Influent/

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 1	1200	Influent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.56 MGD		
				Phenols	1-250ml Amber			
				Cyanide	1-250ml Plastic w/NaOH			
				LL Hg	1-500 ml glass w/HCl			
				Chromium VI	1-250ml plastic			

Brushy Creek East WWTP
Short Quarter IPP Monitoring Influent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 1	1800	Influent	Grab	Oil and Grease Phenols Cyanide	1-250ml Amber w/H2SO4 1-250ml Amber 1-250ml Plastic w/NaOH	2.05		

Brushy Creek West WWTP
Short Quarter IPP Monitoring Effluent

Date	nme	location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 1	2359	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.75		
				Phenols	1-250ml Amber			
				Cyanide	1-250ml Plastic w/NaOH			
				LL Hg	1-SOO ml glass w/HCl			
				Chromium VI	1-2S0ml plastic			

Brushy Creek East WWTP
Short Quarter IPP Monitoring Influent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 1	2359	Influent	Grab	Oil and Grease Phenols Cyanide	1-250ml Amber w/H25O4 1-250ml Amber 1-250ml Plastic w/NaOH	1.37		

Brushy Creek East WWTP
Short Quarter IPP Monitoring Influent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 2	0600	Influent	Grab	Oil and Grease Phenols Cyanide	1-250ml Amber w/H2SO4 1-250ml Amber 1-250ml Plastic w/NaOH	.092		

Brushy Creek East WWTP
Short Quarter IPP Monitoring Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 2	0600	Effluent	Grab	Oil and Grease Phenols Cyanide	1-250ml Amber w/H2SO4 1-250ml Amber 1-250ml Plastic w/NaOH	.892	A	

Brushy Creek East WWTP
Short Quarter IPP Monitoring Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day2	1200	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.27		
				Phenols	1-250ml Amber			
				Cyanide	1-250ml Plastic w/NaOH			

Brushy Creek East WWTP
Short Quarter IPP Monitoring Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day2	1800	Effluent	Grab	Oil and Grease Phenols Cyanide	1-250ml Amber w/H2SO4 1-250ml Amber 1-250ml Plastic w/NaOH	1.92		

Brushy Creek East WWTP
Short Quarter IPP Monitoring Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow(MGD)	Tech (Initial)	Comments
Day 1 -	Start at MIDNIGHT	Effluent	Comp					
Day 2 -	Off at MIDNIGHT	Effluent	Comp	Metals (plus Mn & Mo) Phosphorous Fluoride/Nitrate	1-S00ml plastic w/HNO3 1-250ml plastic w/H2SO4 1-250ml plastic	1.73		

DHL Analytical, Inc.

Day 1

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK**

Date Received: **2/27/2024**

Work Order Number: **2402342**

Received by: **KAO**

Checklist completed by: _____ 2/27/2024
Signature | Date

Reviewed by: SH 2/27/2024
Initials | Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 4.1

Seal Intact NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc.

Day 2

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK** Date Received: **2/27/2024**

Work Order Number: **2402342** Received by: **KAO**

Checklist completed by: _____ 2/28/2024 Reviewed by: _____ 2/28/2024
Signature | Date | Initials | Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler # 1

Temp °C 4.3

Seal Intact NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc.

Day 3

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK** Date Received: **2/27/2024**

Work Order Number: **2402342** Received by: **KAO**

Checklist completed by: _____ 2/29/2024 Reviewed by: SW 2/29/2024

Signature | Date | Initials | Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑	NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 13171	
	Adjusted? no		Checked by EL	
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 12798	
	Adjusted? no		Checked by EL	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐		

Cooler #	1	2
Temp °C	0.5	0.6
Seal Intact	NP	NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc. **Date:** *22-Mar-24*

CLIENT: CITY OF ROUND ROCK
Project: IPP West Plant SHORT QTR
Lab Order: 2402342

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method E200.8 - Metals Analysis
Method E300 - Anions Analysis
Method E1664A - Oil & Grease Analysis
Method E625.1 - Semivolatile Organics Analysis
Method M4500-CN E - Cyanide Analysis
Method M3500-Cr B - Hexavalent Chromium Analysis
Method M3500-Cr B - Trivalent Chromium (calculation) (this calculation is not NELAP certified)
Method M4500-P E - Total Phosphorus Analysis
Sub-contract - Mercury analysis by method E245.7. Analyzed at Pollution Control Services.

LOG IN

The samples were received and log-in performed on 2/27/24 through 2/29/24. A total of 6 samples were received. The samples arrived in good condition and were properly packaged. A composite of the samples was performed in the laboratory at time of analysis for Oil and Grease, Cyanide and Semivolatile Organics.

OIL & GREASE ANALYSIS

For Oil & Grease analysis performed on 3/6/24 Oil & Grease was detected below the reporting limit in the method blank (MB-114341). Sample Influent Grabs 1-4 was detected greater than 10 times the amount in the blank and sample Effluent Grabs 1-4 was below detection limits. No further corrective actions were taken.

For Oil & Grease analysis an MS was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT: CITY OF ROUND ROCK
Project: IPP West Plant SHORT QTR
Lab Order: 2402342

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2402342-01	Influent Grab 1		02/27/24 12:00 PM	02/27/2024
2402342-02	Effluent Grab 1		02/27/24 11:59 PM	02/28/2024
2402342-03	Influent Grabs 1-4		02/28/24 06:00 AM	02/29/2024
2402342-04	Effluent Grabs 1-4		02/28/24 06:00 PM	02/29/2024
2402342-05	Influent Comp		02/28/24 12:00 PM	02/29/2024
2402342-06	Effluent Comp		02/28/24 11:59 PM	02/29/2024

Lab Order: 2402342
Client: CITY OF ROUND ROCK
Project: IPP West Plant SHORT QTR

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2402342-01A	Influent Grab 1	02/27/24 12:00 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	02/28/24 10:28 AM	114226
	Influent Grab 1	02/27/24 12:00 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	02/28/24 10:28 AM	114226
2402342-02A	Effluent Grab 1	02/27/24 11:59 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	02/28/24 10:28 AM	114226
	Effluent Grab 1	02/27/24 11:59 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	02/28/24 10:28 AM	114226
2402342-03A	Influent Grabs 1-4	02/28/24 06:00 AM	Aqueous	M4500-CN E	Cyanide Water Prep	03/01/24 09:10 AM	114271
2402342-03B	Influent Grabs 1-4	02/28/24 06:00 AM	Aqueous	E625_PR	Semivol Extraction for 625.1	03/05/24 09:37 AM	114319
2402342-03C	Influent Grabs 1-4	02/28/24 06:00 AM	Aqueous	E1664	1664 Prep	03/06/24 08:53 AM	114341
2402342-04A	Effluent Grabs 1-4	02/28/24 06:00 PM	Aqueous	M4500-CN E	Cyanide Water Prep	03/01/24 09:10 AM	114271
2402342-04B	Effluent Grabs 1-4	02/28/24 06:00 PM	Aqueous	E625_PR	Semivol Extraction for 625.1	03/05/24 09:37 AM	114319
2402342-04C	Effluent Grabs 1-4	02/28/24 06:00 PM	Aqueous	E1664	1664 Prep	03/06/24 08:53 AM	114341
2402342-05A	Influent Comp	02/28/24 12:00 PM	Aqueous	E200.8_PR	Aq Digestion for Metals: ICP-MS	03/05/24 07:31 AM	114311
2402342-05B	Influent Comp	02/28/24 12:00 PM	Aqueous	M4500-P E	T-Phosphorus Prep Water	03/05/24 09:11 AM	114317
2402342-05C	Influent Comp	02/28/24 12:00 PM	Aqueous	E300	Anion Preparation	02/29/24 04:17 PM	114265
2402342-06A	Effluent Comp	02/28/24 11:59 PM	Aqueous	E200.8_PR	Aq Digestion for Metals: ICP-MS	03/05/24 07:31 AM	114311
2402342-06B	Effluent Comp	02/28/24 11:59 PM	Aqueous	M4500-P E	T-Phosphorus Prep Water	03/05/24 09:11 AM	114317
2402342-06C	Effluent Comp	02/28/24 11:59 PM	Aqueous	E300	Anion Preparation	02/29/24 04:17 PM	114265

Lab Order: 2402342
Client: CITY OF ROUND ROCK
Project: IPP West Plant SHORT QTR

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2402342-01A	Influent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	114226	1	02/28/24 10:38 AM	UV/VIS_2_240228B
	Influent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	114226	1	02/28/24 10:36 AM	UV/VIS_2_240228B
2402342-01B	Influent Grab 1	Aqueous	E245.7	Mercury Low Level	R132039	1	03/15/24 08:54 AM	SUB_240315A
2402342-02A	Effluent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	114226	1	02/28/24 10:38 AM	UV/VIS_2_240228B
	Effluent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	114226	1	02/28/24 10:41 AM	UV/VIS_2_240228B
2402342-02B	Effluent Grab 1	Aqueous	E245.7	Mercury Low Level	R132039	1	03/15/24 08:54 AM	SUB_240315A
2402342-03A	Influent Grabs 1-4	Aqueous	M4500-CN E	Cyanide - Water Sample	114271	1	03/01/24 03:31 PM	UV/VIS_2_240301B
2402342-03B	Influent Grabs 1-4	Aqueous	E625.1	625.1 Semivolatile Water	114319	1	03/05/24 10:00 PM	GCMS9_240305E
2402342-03C	Influent Grabs 1-4	Aqueous	E1664A	Total Oil & Grease	114341	1	03/06/24 05:00 PM	WC_240306C
2402342-04A	Effluent Grabs 1-4	Aqueous	M4500-CN E	Cyanide - Water Sample	114271	1	03/01/24 03:31 PM	UV/VIS_2_240301B
2402342-04B	Effluent Grabs 1-4	Aqueous	E625.1	625.1 Semivolatile Water	114319	1	03/05/24 09:15 PM	GCMS9_240305E
2402342-04C	Effluent Grabs 1-4	Aqueous	E1664A	Total Oil & Grease	114341	1	03/06/24 05:00 PM	WC_240306C
2402342-05A	Influent Comp	Aqueous	E200.8	Total Recoverable Metals: ICP-MS	114311	1	03/06/24 12:00 PM	ICP-MS5_240306B
2402342-05B	Influent Comp	Aqueous	M4500-P E	Total Phosphorus	114317	10	03/05/24 01:11 PM	UV/VIS_2_240305B
2402342-05C	Influent Comp	Aqueous	E300	Anions by IC method - Water	114265	1	02/29/24 08:33 PM	IC2_240229A
2402342-06A	Effluent Comp	Aqueous	E200.8	Total Recoverable Metals: ICP-MS	114311	1	03/06/24 11:00 AM	ICP-MS5_240306B
2402342-06B	Effluent Comp	Aqueous	M4500-P E	Total Phosphorus	114317	1	03/05/24 01:03 PM	UV/VIS_2_240305B
2402342-06C	Effluent Comp	Aqueous	E300	Anions by IC method - Water	114265	1	02/29/24 08:51 PM	IC2_240229A

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Grab 1
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-01
Project No:		**Collection Date:**	02/27/24 12:00 PM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
MERCURY LOW LEVEL		**E245.7**					Analyst: **SUB**
Mercury	0.0130	0.00500	0.00500		µg/L	1	03/15/24 08:54 AM
HEXAVALENT CHROMIUM-WATER		**M3500-CR B**					Analyst: **JS**
Chromium (Hex)	<3.00	3.00	3.00		µg/L	1	02/28/24 10:36 AM
Chromium (Tri)	<3.00	3.00	3.00	N	µg/L	1	02/28/24 10:36 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Grab 1
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-02
Project No:		**Collection Date:**	02/27/24 11:59 PM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
MERCURY LOW LEVEL		**E245.7**					Analyst: **SUB**
Mercury	<0.00500	0.00500	0.00500		µg/L	1	03/15/24 08:54 AM
HEXAVALENT CHROMIUM-WATER		**M3500-CR B**					Analyst: **JS**
Chromium (Hex)	<3.00	3.00	3.00		µg/L	1	02/28/24 10:38 AM
Chromium (Tri)	<3.00	3.00	3.00	N	µg/L	1	02/28/24 10:38 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Grabs 1-4
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-03
Project No:		**Collection Date:**	02/28/24 06:00 AM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL OIL & GREASE		**E1664A**					Analyst: **CF**
Oil & Grease	23100	1410	5030		µg/L	1	03/06/24 05:00 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Total Phenol (Calculated)	13.0	7.12	89.0	J	µg/L	1	03/05/24 10:00 PM
Surr: 2,4,6-Tribromophenol	87.3	0	10-123		%REC	1	03/05/24 10:00 PM
Surr: 2-Fluorophenol	43.0	0	21-100		%REC	1	03/05/24 10:00 PM
Surr: Phenol-d5	30.0	0	10-94		%REC	1	03/05/24 10:00 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Available	<10.0	10.0	10.0		µg/L	1	03/01/24 03:31 PM
Cyanide, Total	<10.0	10.0	10.0		µg/L	1	03/01/24 03:31 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Grabs 1-4
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-04
Project No:		**Collection Date:**	02/28/24 06:00 PM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL OIL & GREASE		**E1664A**					Analyst: **CF**
Oil & Grease	<1450	1450	5170		µg/L	1	03/06/24 05:00 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Total Phenol (Calculated)	<0.792	0.792	9.90		µg/L	1	03/05/24 09:15 PM
Surr: 2,4,6-Tribromophenol	84.8	0	10-123		%REC	1	03/05/24 09:15 PM
Surr: 2-Fluorophenol	47.2	0	21-100		%REC	1	03/05/24 09:15 PM
Surr: Phenol-d5	31.0	0	10-94		%REC	1	03/05/24 09:15 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Available	<10.0	10.0	10.0		µg/L	1	03/01/24 03:31 PM
Cyanide, Total	<10.0	10.0	10.0		µg/L	1	03/01/24 03:31 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Comp
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-05
Project No:		**Collection Date:**	02/28/24 12:00 PM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL RECOVERABLE METALS: ICP-MS		**E200.8**					Analyst: **SP**
Aluminum, Total	83.7	2.50	30.0		µg/L	1	03/06/24 12:00 PM
Antimony, Total	3.36	2.50	2.50		µg/L	1	03/06/24 12:00 PM
Arsenic, Total	0.998	0.500	5.00	J	µg/L	1	03/06/24 12:00 PM
Barium, Total	51.7	3.00	10.0		µg/L	1	03/06/24 12:00 PM
Beryllium, Total	<0.500	0.500	1.00		µg/L	1	03/06/24 12:00 PM
Cadmium, Total	<1.00	1.00	1.00		µg/L	1	03/06/24 12:00 PM
Chromium, Total	<3.00	3.00	5.00		µg/L	1	03/06/24 12:00 PM
Copper, Total	29.6	2.00	10.0		µg/L	1	03/06/24 12:00 PM
Lead, Total	<0.500	0.500	1.00		µg/L	1	03/06/24 12:00 PM
Manganese	19.9	0.500	2.00		µg/L	1	03/06/24 12:00 PM
Molybdenum	2.31	1.00	5.00	J	µg/L	1	03/06/24 12:00 PM
Nickel, Total	2.25	2.00	10.0	J	µg/L	1	03/06/24 12:00 PM
Selenium, Total	<5.00	5.00	5.00		µg/L	1	03/06/24 12:00 PM
Silver, Total	<0.500	0.500	2.00		µg/L	1	03/06/24 12:00 PM
Thallium, Total	<0.500	0.500	1.50		µg/L	1	03/06/24 12:00 PM
Zinc, Total	58.4	5.00	5.00		µg/L	1	03/06/24 12:00 PM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **RA**
Fluoride	105	100	400	J	µg/L	1	02/29/24 08:33 PM
Nitrate-N	<100	100	500		µg/L	1	02/29/24 08:33 PM
TOTAL PHOSPHORUS		**M4500-P E**					Analyst: **KES**
Phosphorus	6850	400	1000		µg/L	10	03/05/24 01:11 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *22-Mar-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Comp
Project:	IPP West Plant SHORT QTR	**Lab ID:**	2402342-06
Project No:		**Collection Date:**	02/28/24 11:59 PM
Lab Order:	2402342	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL RECOVERABLE METALS: ICP-MS		**E200.8**					Analyst: **SP**
Aluminum, Total	31.8	2.50	30.0		µg/L	1	03/06/24 11:00 AM
Antimony, Total	<2.50	2.50	2.50		µg/L	1	03/06/24 11:00 AM
Arsenic, Total	1.01	0.500	5.00	J	µg/L	1	03/06/24 11:00 AM
Barium, Total	44.0	3.00	10.0		µg/L	1	03/06/24 11:00 AM
Beryllium, Total	<0.500	0.500	1.00		µg/L	1	03/06/24 11:00 AM
Cadmium, Total	<1.00	1.00	1.00		µg/L	1	03/06/24 11:00 AM
Chromium, Total	<3.00	3.00	5.00		µg/L	1	03/06/24 11:00 AM
Copper, Total	3.31	2.00	10.0	J	µg/L	1	03/06/24 11:00 AM
Lead, Total	<0.500	0.500	1.00		µg/L	1	03/06/24 11:00 AM
Manganese	10.3	0.500	2.00		µg/L	1	03/06/24 11:00 AM
Molybdenum	2.95	1.00	5.00	J	µg/L	1	03/06/24 11:00 AM
Nickel, Total	<2.00	2.00	10.0		µg/L	1	03/06/24 11:00 AM
Selenium, Total	<5.00	5.00	5.00		µg/L	1	03/06/24 11:00 AM
Silver, Total	<0.500	0.500	2.00		µg/L	1	03/06/24 11:00 AM
Thallium, Total	<0.500	0.500	1.50		µg/L	1	03/06/24 11:00 AM
Zinc, Total	41.7	5.00	5.00		µg/L	1	03/06/24 11:00 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **RA**
Fluoride	199	100	400	J	µg/L	1	02/29/24 08:51 PM
Nitrate-N	10300	100	500		µg/L	1	02/29/24 08:51 PM
TOTAL PHOSPHORUS		**M4500-P E**					Analyst: **KES**
Phosphorus	171	40.0	100		µg/L	1	03/05/24 01:03 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

The QC data in batch 114311 applies to the following samples: 2402342-05A, 2402342-06A

Sample ID: **MB-114311** Batch ID: **114311** TestNo: **E200.8** Units: **µg/L**
SampType: **MBLK** Run ID: **ICP-MS5_240306B** Analysis Date: **3/6/2024 10:50:00 AM** Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	<10.0	30.0								
Antimony, Total	<0.800	2.50								
Arsenic, Total	<2.00	5.00								
Barium, Total	<3.00	10.0								
Beryllium, Total	<0.300	1.00								
Cadmium, Total	<0.300	1.00								
Chromium, Total	<2.00	5.00								
Copper, Total	<2.00	10.0								
Lead, Total	<0.300	1.00								
Manganese	<2.00	2.00								
Molybdenum	<2.00	5.00								
Nickel, Total	<3.00	10.0								
Selenium, Total	<2.00	5.00								
Silver, Total	<1.00	2.00								
Thallium, Total	<0.500	1.50								
Zinc, Total	<2.00	5.00								

Sample ID: **LCS-114311** Batch ID: **114311** TestNo: **E200.8** Units: **µg/L**
SampType: **LCS** Run ID: **ICP-MS5_240306B** Analysis Date: **3/6/2024 10:53:00 AM** Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	4980	30.0	5000	0	99.6	85	115			
Antimony, Total	202	2.50	200.0	0	101	85	115			
Arsenic, Total	201	5.00	200.0	0	100	85	115			
Barium, Total	197	10.0	200.0	0	98.3	85	115			
Beryllium, Total	199	1.00	200.0	0	99.6	85	115			
Cadmium, Total	196	1.00	200.0	0	98.2	85	115			
Chromium, Total	196	5.00	200.0	0	98.2	85	115			
Copper, Total	202	10.0	200.0	0	101	85	115			
Lead, Total	197	1.00	200.0	0	98.3	85	115			
Manganese	199	2.00	200.0	0	99.4	85	115			
Molybdenum	198	5.00	200.0	0	98.9	85	115			
Nickel, Total	201	10.0	200.0	0	101	85	115			
Selenium, Total	206	5.00	200.0	0	103	85	115			
Silver, Total	199	2.00	200.0	0	99.5	85	115			
Thallium, Total	204	1.50	200.0	0	102	85	115			
Zinc, Total	201	5.00	200.0	0	100	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

Sample ID: **LCSD-114311**	Batch ID: **114311**	TestNo: **E200.8**	Units: **µg/L**
SampType: **LCSD**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 10:55:00 AM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	4990	30.0	5000	0	99.9	85	115	0.270	15	
Antimony, Total	203	2.50	200.0	0	101	85	115	0.443	15	
Arsenic, Total	201	5.00	200.0	0	100	85	115	0.019	15	
Barium, Total	198	10.0	200.0	0	99.2	85	115	0.989	15	
Beryllium, Total	201	1.00	200.0	0	101	85	115	1.02	15	
Cadmium, Total	197	1.00	200.0	0	98.7	85	115	0.517	15	
Chromium, Total	197	5.00	200.0	0	98.4	85	115	0.214	15	
Copper, Total	203	10.0	200.0	0	101	85	115	0.318	15	
Lead, Total	197	1.00	200.0	0	98.7	85	115	0.422	15	
Manganese	200	2.00	200.0	0	99.8	85	115	0.415	15	
Molybdenum	198	5.00	200.0	0	99.2	85	115	0.298	15	
Nickel, Total	203	10.0	200.0	0	101	85	115	0.607	15	
Selenium, Total	206	5.00	200.0	0	103	85	115	0.149	15	
Silver, Total	199	2.00	200.0	0	99.6	85	115	0.122	15	
Thallium, Total	203	1.50	200.0	0	101	85	115	0.506	15	
Zinc, Total	202	5.00	200.0	0	101	85	115	0.614	15	

Sample ID: **2402342-06A SD**	Batch ID: **114311**	TestNo: **E200.8**	Units: **µg/L**
SampType: **SD**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 11:03:00 AM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	<50.0	150	0	31.83				0	10	
Antimony	<4.00	12.5	0	0				0	10	
Arsenic	<10.0	25.0	0	1.005				0	10	
Barium	43.6	50.0	0	44.03				1.02	10	
Beryllium	<1.50	5.00	0	0				0	10	
Cadmium	<1.50	5.00	0	0				0	10	
Chromium	<10.0	25.0	0	0				0	10	
Copper	<10.0	50.0	0	3.312				0	10	
Lead	<1.50	5.00	0	0				0	10	
Manganese	10.7	10.0	0	10.31				4.09	10	
Molybdenum	<10.0	25.0	0	2.950				0	10	
Nickel	<15.0	50.0	0	0				0	10	
Selenium	<10.0	25.0	0	0				0	10	
Silver	<5.00	10.0	0	0				0	10	
Thallium	<2.50	7.50	0	0				0	10	
Zinc	42.7	25.0	0	41.66				2.49	10	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

Sample ID: **2402342-06A PDS**	Batch ID: **114311**	TestNo: **E200.8**	Units: **µg/L**
SampType: **PDS**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 11:28:00 AM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum	4810	30.0	5000	31.83	95.6	75	125			
Antimony	180	2.50	200.0	0	90.2	75	125			
Arsenic	200	5.00	200.0	1.005	99.7	75	125			
Barium	247	10.0	200.0	44.03	101	75	125			
Beryllium	209	1.00	200.0	0	105	75	125			
Cadmium	203	1.00	200.0	0	101	75	125			
Chromium	206	5.00	200.0	0	103	75	125			
Copper	208	10.0	200.0	3.312	102	75	125			
Lead	204	1.00	200.0	0	102	75	125			
Manganese	209	2.00	200.0	10.31	99.4	75	125			
Molybdenum	204	5.00	200.0	2.950	101	75	125			
Nickel	208	10.0	200.0	0	104	75	125			
Selenium	200	5.00	200.0	0	99.8	75	125			
Silver	207	2.00	200.0	0	103	75	125			
Thallium	212	1.50	200.0	0	106	75	125			
Zinc	240	5.00	200.0	41.66	99.2	75	125			

Sample ID: **2402342-06A MS**	Batch ID: **114311**	TestNo: **E200.8**	Units: **µg/L**
SampType: **MS**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 11:32:00 AM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5160	30.0	5000	31.83	103	70	130			
Antimony, Total	214	2.50	200.0	0	107	70	130			
Arsenic, Total	203	5.00	200.0	1.005	101	70	130			
Barium, Total	249	10.0	200.0	44.03	103	70	130			
Beryllium, Total	209	1.00	200.0	0	104	70	130			
Cadmium, Total	200	1.00	200.0	0	100	70	130			
Chromium, Total	204	5.00	200.0	0	102	70	130			
Copper, Total	208	10.0	200.0	3.312	102	70	130			
Lead, Total	203	1.00	200.0	0	102	70	130			
Manganese	213	2.00	200.0	10.31	101	70	130			
Molybdenum	210	5.00	200.0	2.950	104	70	130			
Nickel, Total	202	10.0	200.0	0	101	70	130			
Selenium, Total	203	5.00	200.0	0	102	70	130			
Silver, Total	207	2.00	200.0	0	104	70	130			
Thallium, Total	210	1.50	200.0	0	105	70	130			
Zinc, Total	242	5.00	200.0	41.66	100	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

Sample ID: **2402342-06A MSD** Batch ID: **114311** TestNo: **E200.8** Units: **µg/L**
SampType: **MSD** Run ID: **ICP-MS5_240306B** Analysis Date: **3/6/2024 11:35:00 AM** Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5160	30.0	5000	31.83	103	70	130	0.059	15	
Antimony, Total	212	2.50	200.0	0	106	70	130	0.770	15	
Arsenic, Total	205	5.00	200.0	1.005	102	70	130	1.05	15	
Barium, Total	253	10.0	200.0	44.03	104	70	130	1.33	15	
Beryllium, Total	209	1.00	200.0	0	104	70	130	0.077	15	
Cadmium, Total	204	1.00	200.0	0	102	70	130	1.58	15	
Chromium, Total	205	5.00	200.0	0	102	70	130	0.460	15	
Copper, Total	211	10.0	200.0	3.312	104	70	130	1.19	15	
Lead, Total	206	1.00	200.0	0	103	70	130	1.42	15	
Manganese	216	2.00	200.0	10.31	103	70	130	1.30	15	
Molybdenum	213	5.00	200.0	2.950	105	70	130	1.57	15	
Nickel, Total	205	10.0	200.0	0	102	70	130	1.42	15	
Selenium, Total	202	5.00	200.0	0	101	70	130	0.888	15	
Silver, Total	207	2.00	200.0	0	103	70	130	0.159	15	
Thallium, Total	214	1.50	200.0	0	107	70	130	2.03	15	
Zinc, Total	243	5.00	200.0	41.66	101	70	130	0.467	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

Sample ID: **ICV-240306**	Batch ID: **R131805**	TestNo: **E200.8**	Units: **µg/L**
SampType: **ICV**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 10:02:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	2420	30.0	2500	0	96.9	90	110			
Antimony, Total	103	2.50	100.0	0	103	90	110			
Arsenic, Total	101	5.00	100.0	0	101	90	110			
Barium, Total	101	10.0	100.0	0	101	90	110			
Beryllium, Total	103	1.00	100.0	0	103	90	110			
Cadmium, Total	102	1.00	100.0	0	102	90	110			
Chromium, Total	102	5.00	100.0	0	102	90	110			
Copper, Total	103	10.0	100.0	0	103	90	110			
Lead, Total	100	1.00	100.0	0	100	90	110			
Manganese	101	2.00	100.0	0	101	90	110			
Molybdenum	98.1	5.00	100.0	0	98.1	90	110			
Nickel, Total	105	10.0	100.0	0	105	90	110			
Selenium, Total	103	5.00	100.0	0	103	90	110			
Silver, Total	101	2.00	100.0	0	101	90	110			
Thallium, Total	99.2	1.50	100.0	0	99.2	90	110			
Zinc, Total	104	5.00	100.0	0	104	90	110			

Sample ID: **CCV1-240306**	Batch ID: **R131805**	TestNo: **E200.8**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 10:43:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	4950	30.0	5000	0	99.0	90	110			
Antimony, Total	203	2.50	200.0	0	102	90	110			
Arsenic, Total	200	5.00	200.0	0	99.9	90	110			
Barium, Total	199	10.0	200.0	0	99.3	90	110			
Beryllium, Total	197	1.00	200.0	0	98.3	90	110			
Cadmium, Total	196	1.00	200.0	0	98.1	90	110			
Chromium, Total	195	5.00	200.0	0	97.4	90	110			
Copper, Total	202	10.0	200.0	0	101	90	110			
Lead, Total	196	1.00	200.0	0	97.8	90	110			
Manganese	198	2.00	200.0	0	98.8	90	110			
Molybdenum	198	5.00	200.0	0	99.0	90	110			
Nickel, Total	200	10.0	200.0	0	100	90	110			
Selenium, Total	205	5.00	200.0	0	102	90	110			
Silver, Total	199	2.00	200.0	0	99.6	90	110			
Thallium, Total	201	1.50	200.0	0	100	90	110			
Zinc, Total	201	5.00	200.0	0	101	90	110			

Qualifiers:			
B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240306B

Sample ID: **CCV2-240306**	Batch ID: **R131805**	TestNo: **E200.8**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 11:37:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5010	30.0	5000	0	100	90	110			
Antimony, Total	205	2.50	200.0	0	102	90	110			
Arsenic, Total	200	5.00	200.0	0	99.8	90	110			
Barium, Total	199	10.0	200.0	0	99.5	90	110			
Beryllium, Total	202	1.00	200.0	0	101	90	110			
Cadmium, Total	198	1.00	200.0	0	99.2	90	110			
Chromium, Total	201	5.00	200.0	0	100	90	110			
Copper, Total	207	10.0	200.0	0	104	90	110			
Lead, Total	197	1.00	200.0	0	98.6	90	110			
Manganese	201	2.00	200.0	0	100	90	110			
Molybdenum	200	5.00	200.0	0	99.9	90	110			
Nickel, Total	206	10.0	200.0	0	103	90	110			
Selenium, Total	206	5.00	200.0	0	103	90	110			
Silver, Total	206	2.00	200.0	0	103	90	110			
Thallium, Total	204	1.50	200.0	0	102	90	110			
Zinc, Total	202	5.00	200.0	0	101	90	110			

Sample ID: **CCV3-240306**	Batch ID: **R131805**	TestNo: **E200.8**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS5_240306B**	Analysis Date: **3/6/2024 12:05:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5000	30.0	5000	0	100	90	110			
Antimony, Total	206	2.50	200.0	0	103	90	110			
Arsenic, Total	202	5.00	200.0	0	101	90	110			
Barium, Total	201	10.0	200.0	0	100	90	110			
Beryllium, Total	200	1.00	200.0	0	99.8	90	110			
Cadmium, Total	201	1.00	200.0	0	100	90	110			
Chromium, Total	201	5.00	200.0	0	101	90	110			
Copper, Total	210	10.0	200.0	0	105	90	110			
Lead, Total	196	1.00	200.0	0	98.0	90	110			
Manganese	200	2.00	200.0	0	100	90	110			
Molybdenum	203	5.00	200.0	0	101	90	110			
Nickel, Total	207	10.0	200.0	0	104	90	110			
Selenium, Total	207	5.00	200.0	0	104	90	110			
Silver, Total	207	2.00	200.0	0	104	90	110			
Thallium, Total	196	1.50	200.0	0	98.0	90	110			
Zinc, Total	205	5.00	200.0	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_240305E**

The QC data in batch 114319 applies to the following samples: 2402342-03B, 2402342-04B

Sample ID: **LCS-114319** Batch ID: **114319** TestNo: **E625.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS9_240305E** Analysis Date: **3/5/2024 5:08:00 PM** Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Phenol (Calculated)	21.0	10.0	40.00	0	52.4	5	120			
Surr: 2,4,6-Tribromophenol	70.8		80.00		88.5	10	123			
Surr: 2-Fluorophenol	50.0		80.00		62.5	21	100			
Surr: Phenol-d5	36.2		80.00		45.2	10	94			

Sample ID: **MB-114319** Batch ID: **114319** TestNo: **E625.1** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS9_240305E** Analysis Date: **3/5/2024 7:00:00 PM** Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Phenol (Calculated)	<2.00	10.0								
Surr: 2,4,6-Tribromophenol	68.4		80.00		85.5	10	123			
Surr: 2-Fluorophenol	41.4		80.00		51.8	21	100			
Surr: Phenol-d5	26.4		80.00		33.0	10	94			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240305E

Sample ID: **ICV-240305**	Batch ID: **R131801**	TestNo: **E625.1**	Units: **µg/L**
SampType: **ICV**	Run ID: **GCMS9_240305E**	Analysis Date: **3/5/2024 4:46:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Phenol (Calculated)	2500	10.0	2500	0	100	70	130			
Surr: 2,4,6-Tribromophenol	2560		2500		102	70	130			
Surr: 2-Fluorophenol	2620		2500		105	70	130			
Surr: Phenol-d5	2670		2500		107	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: WC_240306C

The QC data in batch 114341 applies to the following samples: 2402342-03C, 2402342-04C

Sample ID: **MB-114341**	Batch ID: **114341**	TestNo: **E1664A**	Units: **µg/L**
SampType: **MBLK**	Run ID: **WC_240306C**	Analysis Date: **3/6/2024 5:00:00 PM**	Prep Date: **3/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	1800	5000								

Sample ID: **LCS-114341**	Batch ID: **114341**	TestNo: **E1664A**	Units: **µg/L**
SampType: **LCS**	Run ID: **WC_240306C**	Analysis Date: **3/6/2024 5:00:00 PM**	Prep Date: **3/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	34400	5000	40000	0	86.0	78	114			

Sample ID: **LCSD-114341**	Batch ID: **114341**	TestNo: **E1664A**	Units: **µg/L**
SampType: **LCSD**	Run ID: **WC_240306C**	Analysis Date: **3/6/2024 5:00:00 PM**	Prep Date: **3/6/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	38900	5000	40000	0	97.3	78	114	12.3	18	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_240229A

The QC data in batch 114265 applies to the following samples: 2402342-05C, 2402342-06C

Sample ID: **MB-114265** Batch ID: **114265** TestNo: **E300** Units: **µg/L**
SampType: **MBLK** Run ID: **IC2_240229A** Analysis Date: **2/29/2024 7:03:26 PM** Prep Date: **2/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	<100	400								
Nitrate-N	<100	500								

Sample ID: **LCS-114265** Batch ID: **114265** TestNo: **E300** Units: **µg/L**
SampType: **LCS** Run ID: **IC2_240229A** Analysis Date: **2/29/2024 7:21:26 PM** Prep Date: **2/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4120	400	4000	0	103	90	110			
Nitrate-N	4730	500	5000	0	94.5	90	110			

Sample ID: **LCSD-114265** Batch ID: **114265** TestNo: **E300** Units: **µg/L**
SampType: **LCSD** Run ID: **IC2_240229A** Analysis Date: **2/29/2024 7:39:26 PM** Prep Date: **2/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4120	400	4000	0	103	90	110	0.046	20	
Nitrate-N	4770	500	5000	0	95.3	90	110	0.841	20	

Sample ID: **2402403-01DMS** Batch ID: **114265** TestNo: **E300** Units: **µg/L**
SampType: **MS** Run ID: **IC2_240229A** Analysis Date: **2/29/2024 10:57:26 PM** Prep Date: **2/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2040000	40000	2000000	0	102	90	110			
Nitrate-N	442000	50000	452000	0	97.9	90	110			

Sample ID: **2402403-01DMSD** Batch ID: **114265** TestNo: **E300** Units: **µg/L**
SampType: **MSD** Run ID: **IC2_240229A** Analysis Date: **2/29/2024 11:15:26 PM** Prep Date: **2/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2030000	40000	2000000	0	101	90	110	0.476	20	
Nitrate-N	446000	50000	452000	0	98.7	90	110	0.759	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_240229A

Sample ID: **ICV-240229**	Batch ID: **R131709**	TestNo: **E300**	Units: **µg/L**
SampType: **ICV**	Run ID: **IC2_240229A**	Analysis Date: **2/29/2024 6:27:26 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	10300	400	10000	0	103	90	110			
Nitrate-N	12300	500	12500	0	98.1	90	110			

Sample ID: **CCV1-240229**	Batch ID: **R131709**	TestNo: **E300**	Units: **µg/L**
SampType: **CCV**	Run ID: **IC2_240229A**	Analysis Date: **3/1/2024 12:09:26 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	4110	400	4000	0	103	90	110			
Nitrate-N	4830	500	5000	0	96.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK

Work Order: 2402342

Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240228B**

The QC data in batch 114226 applies to the following samples: 2402342-01A, 2402342-02A

Sample ID: **MB-114226** Batch ID: **114226** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MBLK** Run ID: **UV/VIS_2_240228B** Analysis Date: **2/28/2024 10:30:00 AM** Prep Date: **2/28/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	<3.00	3.00								
Chromium (Tri)	<2.00	3.00								N

Sample ID: **LCS-114226** Batch ID: **114226** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **LCS** Run ID: **UV/VIS_2_240228B** Analysis Date: **2/28/2024 10:30:00 AM** Prep Date: **2/28/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	99.6	3.00	100.0	0	99.6	85	115			

Sample ID: **LCSD-114226** Batch ID: **114226** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **LCSD** Run ID: **UV/VIS_2_240228B** Analysis Date: **2/28/2024 10:33:00 AM** Prep Date: **2/28/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	97.5	3.00	100.0	0	97.5	85	115	2.10	15	

Sample ID: **2402342-02A MS** Batch ID: **114226** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MS** Run ID: **UV/VIS_2_240228B** Analysis Date: **2/28/2024 10:41:00 AM** Prep Date: **2/28/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	99.3	3.00	100.0	0	99.3	85	115			

Sample ID: **2402342-02A MSD** Batch ID: **114226** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MSD** Run ID: **UV/VIS_2_240228B** Analysis Date: **2/28/2024 10:41:00 AM** Prep Date: **2/28/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	95.5	3.00	100.0	0	95.5	85	115	3.85	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240228B

Sample ID: **ICV-240228**	Batch ID: **R131658**	TestNo: **M3500-Cr B**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240228B**	Analysis Date: **2/28/2024 10:28:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	97.1	3.00	100.0	0	97.1	90	110			

Sample ID: **CCV-240228**	Batch ID: **R131658**	TestNo: **M3500-Cr B**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240228B**	Analysis Date: **2/28/2024 10:43:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	199	3.00	200.0	0	99.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240301B**

The QC data in batch 114271 applies to the following samples: 2402342-03A, 2402342-04A

Sample ID: **MB-114271**	Batch ID: **114271**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **MBLK**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:25:00 PM**	Prep Date: **3/1/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Available	<10.0	20.0								
Cyanide, Total	<10.0	20.0								

Sample ID: **LCS-114271**	Batch ID: **114271**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **LCS**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:25:00 PM**	Prep Date: **3/1/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	192	20.0	200	0	95.8	85	115			

Sample ID: **2402341-04AMS**	Batch ID: **114271**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **MS**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:26:00 PM**	Prep Date: **3/1/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	177	20.0	200	0	88.4	79	114			

Sample ID: **2402341-04AMSD**	Batch ID: **114271**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **MSD**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:26:00 PM**	Prep Date: **3/1/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	177	20.0	200	0	88.3	79	114	0.056	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240301B

Sample ID: **ICV-240301**	Batch ID: **R131715**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:23:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	88.4	20.0	100	0	88.4	85	115			

Sample ID: **CCV1-240301**	Batch ID: **R131715**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240301B**	Analysis Date: **3/1/2024 3:36:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	200	20.0	200	0	99.8	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240305B**

The QC data in batch 114317 applies to the following samples: 2402342-05B, 2402342-06B

Sample ID: **LCS-114317**	Batch ID: **114317**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **LCS**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:01:00 PM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	497	100	500	0	99.4	80	120			

Sample ID: **LCSD-114317**	Batch ID: **114317**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **LCSD**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:01:00 PM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	511	100	500	0	102	80	120	2.78	20	

Sample ID: **MB-114317**	Batch ID: **114317**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MBLK**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:02:00 PM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	<40.0	100								

Sample ID: **2402373-01DMS**	Batch ID: **114317**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MS**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:04:00 PM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	557	100	500	55.0	100	80	120			

Sample ID: **2402373-01DMSD**	Batch ID: **114317**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MSD**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:05:00 PM**	Prep Date: **3/5/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	556	100	500	55.0	100	80	120	0.180	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2402342
Project: IPP West Plant SHORT QTR

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240305B

Sample ID: **ICV-240228**	Batch ID: **R131768**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:00:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	209	100	200	0	104	85	115			

Sample ID: **CCV1-240305**	Batch ID: **R131768**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240305B**	Analysis Date: **3/5/2024 1:11:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	492	100	500	0	98.4	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
John DuPont **DHL Analytical, Inc.** **2300 Double Creek Dr.** **Round Rock, TX 78664**	**Project Name: 2402342** **Sample ID: Influent Grab 1** **Matrix: Non-Potable Water** **Date/Time Taken: 2/27/2024 1200**	**PCS Sample #: 752878 Page 1 of 1** **Date/Time Received: 3/1/2024 09:45** **Report Date: 3/15/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Mercury/CVAFS	0.000013	mg/L	0.000005	3/15/2024 08:54	EPA 245.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Mercury/CVAFS	<1	20	70	105	106	130	102	70 - 130	<1.8ng/L

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.

These analytical results relate only to the sample tested.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits

www.pcslab.net
chuck@pcslab.net

1532 Universal City Blvd
Universal City, TX 78148-3318

Main: 210-340-0343
Fax: 210-658-7903

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
John DuPont **DHL Analytical, Inc.** **2300 Double Creek Dr.** **Round Rock, TX 78664**	**Project Name: 2402342** **Sample ID: Effluent Grab 1** **Matrix: Non-Potable Water** **Date/Time Taken: 2/27/2024 2359**	**PCS Sample #: 752879 Page 1 of 1** **Date/Time Received: 3/1/2024 09:45** **Report Date: 3/15/2024** **Approved by:** Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Mercury/CVAFS	<0.000005	mg/L	0.000005	3/15/2024 08:54	EPA 245.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Mercury/CVAFS	<1	20	70	105	106	130	102	70 - 130	<1.8ng/L

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.

These analytical results relate only to the sample tested.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits

www.pcslab.net
chuck@pcslab.net
1532 Universal City Blvd
Universal City, TX 78148-3318
Main: 210-340-0343
Fax: 210-658-7903

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664
TEL: *(512) 388-8222* FAX:

CHAIN-OF-CUSTODY RECORD

Work Order: 2402342

Subcontractor:

Pollution Control Services
1532 Universal City Blvd #100
Universal City, Texas 78148

TEL: (210) 340-0949
FAX: (210) 658-7903
Acct #:

29-Feb-24

Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests					
					Hg-LoLevel E245.7					
Influent Grab 1	Aqueous	01B	02/27/24 12:00 PM	500GHCL	1	752878				
Effluent Grab 1	Aqueous	02B	02/27/24 11:59 PM	500GHCL	1	752879				

General Comments:

Please analyze these samples with a Standard Turnaround Time.
Quality Control Package Needed: Standard - SEND PDF & Excel EDD Please
EMAIL report to both cac@dhlanalytical.com & dupont@dhlanalytical.com
Call John DuPont if you have questions.

		Date/Time			Date/Time
Relinquished by:	E	2/29/24 1700	**Received by:**		
Relinquished by:			**Received by:**	Jason Aguilar	3-1-24 0945


LOGIN
5123888222
DHL ANALYTICAL
2300 DOUBLE CREEK DR
ROUND ROCK TX 78664
16 LBS
1 OF 1
SHIP TO:
SAMPLE RECEIVING
800 8804616
POLLUTION CONTROL SERVICES
1532 UNIVERSAL CITY BLVD #100
UNIVERSAL CITY TX 78148
TX 782 9-09
UPS GROUND
TRACKING #: 1Z 970 R40 03 3692 3302
BILLING: P/P
XQL 24.01.23
NV45.9.0A 02/2024*
TM
FOR UPS SHIPPING ONLY

Pollution Control Services

Sample Log-In Checklist

752878

PCS Sample No(s) 752878 752879 **COC No.** _____

Client/Company Name: DHL **Checklist Completed by:** JAA

Sample Delivery to Lab Via:
Client Drop Off ✓ Commercial Carrier: Bus ____ UPS ____ Lone Star ____ FedEx ____ USPS ____
PCS Field Services: Collection/Pick Up____ Other: _____

Sample Kit/Coolers
Sample Kit/Cooler? Yes ✓ No____ Sample Kit/Cooler: Intact? Yes ✓ No___
Custody Seals on Sample Kit/Cooler: Not Present ✓ If Present, Intact ___ Broken ___
Sample Containers Intact; Unbroken and Not Leaking? Yes ✓ No ___
Custody Seals on Sample Bottles: Not Present ✓ If Present, Intact ___ Broken ___
COC Present with Shipment or Delivery or Completed at Drop Off? Yes ✓ No ___
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes: ✓ No: ___
Has COC been properly Signed when Received/Relinquished? Yes ✓ No ___
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes ✓ No ___
All Samples Received before Hold Time Expiration? Yes ✓ No ___
Sufficient Sample Volumes for Analysis Requested? Yes ✓ No ___
Zero Headspace in VOA Vial? Yes ___ No ___

Sample Preservation:
* ***Cooling:*** **Not Required** ✓ or **Required** _____
If cooling required, record temperature of submitted samples Observed/Corrected 20 / 20 °C
Is Ice Present in Sample Kit/Cooler? ____ Yes ✓ No Samples received same day as collected? ____ Yes ✓ No
Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: _____

Acid Preserved Sample - If present, is pH <2? **Yes** ____ **No** ____** ____H_2SO_4 ____HNO_3 ____H_3PO_4
Base Preserved Sample - If present, is pH >12? Yes ____ No ____ ____NaOH
Other Preservation:_____ If Present, Meets Requirements? Yes____ No____
Sample Preservations Checked by:_____ Date _____ Time _____
pH paper used to check sample preservation (PCS log #): _____ (HEM pH checked at analysis).

Samples Preserved/Adjusted by Lab:	Lab #	Parameters Preserved	Preservative Used	Log #

Adjusted by Tech/Analyst:_____ Date :_____Time:_____

Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ RevisionComments
Person Notified: _____ Contacted by:_____
Notified Date: _____Time: _____
Method of Contact: At Drop Off:____ Phone ___ Left Voice Mail ____ E-Mail ____ Fax ____
Unable to Contact____ Authorized Laboratory to Proceed :_____(Lab Director)
Regarding / Comments:_____
_____
_____
Actions taken to correct problems/discrepancies:_____
_____
_____
Receiving qualifier needed (*requires client notification above*) Temp. ___ Holding Time ___ Initails: _____
Receiving qualifier entered into LIMS at login Initial/Date: _____
Revision Comments: _____
_____

May 29, 2024

Ryan Bornn
CITY OF ROUND ROCK
2008 Enterprise
ROUND ROCK, Texas 78664
TEL: (512) 218-5561
FAX:

Order No.: 2405086

RE: IPP WEST Plant Long QTR

Dear Ryan Bornn:

DHL Analytical, Inc. received 6 sample(s) on 5/7/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock	DATE: 05/07/2024	LAB USE ONLY
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665	PO#:	DHL WORKORDER #: 2405086
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov	PROJECT LOCATION OR NAME: IPP WEST Plant Long QTR	
DATA REPORTED TO: rbornn@roundRocktexas.gov		
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov	CLIENT PROJECT #	COLLECTOR: TonW.

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Lab Use Only: W=WATER, L=LIQUID, S=SOIL, SO=SOLID, SE=SEDIMENT, P=PAINT, SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ✓	HNO_3	H_2SO_4	NaOH ☐	H_3PO_4 ☐	Zn Acetate ☐	ICE ✓	UNPRESERVED ✓	ANALYSES	FIELD NOTES
Influent Grab 1	01	05/07/24	12:00	W	G	1	✓						✓		LL Hg	LLg-HCL
Influent Grab 1	↓	05/07/24	12:00	W	P	1							✓			CR(VI) ICE

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 8260 ☐ VOC 624.1 ☐ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TX11 ☐ _____ | pH☐ HEX CHROM ✓ ALINITY☐ COD☐ | ANIONS 300 ☐ 9056 ☐ _____ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RG ☐ IGN ☐ OGAS ☐ OIL&GREASE ☐ | TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐

Relinquished By: (Sign)	DATE/TIME 5-7-24	Received by:
Relinquished By: (Sign)	DATE/TIME 05/07/2024 1:25pm	Received by:
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 20
RECEIVING TEMP (°C): 14.7
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? (YES) / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock	DATE: 05/08/2024	LAB USE ONLY
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665	**PO#:**	DHL WORKORDER #: 2405086
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov	PROJECT LOCATION OR NAME:	
DATA REPORTED TO: rbornn@roundRocktexas.gov		IPP WEST Plant Long QTR
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov	CLIENT PROJECT #	COLLECTOR: [illegible]

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Lab Use Only: W=WATER, L=LIQUID, S=SOIL, SO=SOLID, SE=SEDIMENT, P=PAINT, SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐	Zn Acetate ☐	ICE	UNPRESERVE	ANALYSES: LL Hg	FIELD NOTES
Effluent Grab 1	02	05/07/24	23:59	W	G	1	✓						✓		✓	LLg-HCL
Effluent Grab 1	↓	05/07/24	23:59	W	P	1							✓			CR(VI) ICE

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 8260 ☐ VOC 624.1 ☐ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TX11 ☐ | pH☐ HEX CHROM ☐ ALINITY☐ COD☐ ✓ | ANIONS 300 ☐ 9056 ☐ ____ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RG ☐ IGN ☐ D&AS ☐ OIL&GREASE ☐ | TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐

Relinquished By: (Sign)	DATE/TIME 5-7-24	Received by:
Relinquished By: (Sign)	DATE/TIME 05/08/2024 0841	Received by:
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐ RUSH-3 DAY☐
NORMAL☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 4.6°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 05/09/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2405086

PROJECT LOCATION OR NAME: IPP WEST Long Qtr.
CLIENT PROJECT #
COLLECTOR: Tom Gilliam

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ✓	Zn Acetate ☐	ICE ✓	UNPRESERVED ✓	ANALYSES	BTEX ☐ MTBE ☐ (METHOD 8260)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☐ DRO 8015 ☐	VOC 8260 ☐ VOC 624.1 ✓	SVOC 8270 ☐ SVOC 625.1 ☐	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐	HERB 8321 ☐ T PHOS ☐ AMMONIA ☐	METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐	pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	ANIONS 300 ☐ 9056 ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ OGAS ☐ OIL&GREASE ✓	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ✓	FIELD NOTES
Influent Grab 1	03	05/07/24	12:00	W	Varies	4				✓	✓		✓						✓													✓	✓	O&G H2SO4
Influent Grab 2	↓	05/07/24	18:00	W	Varies	4				✓	✓		✓						✓													✓	✓	Cyanide NaOH
Influent Grab 3		05/07/24	23:59	W	Varies	4				✓	✓		✓						✓													✓	✓	VOC ICE
Influent Grab 4	↓	05/08/24	06:00	W	Varies	4				✓	✓		✓						✓													✓	✓	

Relinquished By: (Sign) DATE/TIME 5.8.24 Received By:
Relinquished By: (Sign) DATE/TIME 05/08/2024 Received by:
Relinquished By: (Sign) DATE/TIME Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ✓ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY **THERMO #:** 78
RECEIVING TEMP (°C): 3.3°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☐ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: 512-218-6636 EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 05/09/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2405086

PROJECT LOCATION OR NAME: IPP WEST Long Qtr.
CLIENT PROJECT #
COLLECTOR: [signature]

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION HCL ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☑	Zn Acetate ☐	ICE ☑	UNPRESERVED ☑	ANALYSES	FIELD NOTES
Effluent Grab 1	04	05/07/24	23:59	W	Varies	4				✓	✓		✓		VOC 8260 ☑	O&G H2SO4
Effluent Grab 2	↓	05/08/24	06:00	W	Varies	4				✓	✓		✓		VOC 8260 ☑	Cyanide NaOH
Effluent Grab 3		05/08/24	12:00	W	Varies	4				✓	✓		✓		VOC 8260 ☑	VOC ICE
Effluent Grab 4	↓	05/08/24	18:00	W	Varies	4				✓	✓		✓		VOC 8260 ☑	

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8260) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO 8015 ☐ DRO 8015 ☐ | VOC 624.1 ☑ | SVOC 8270 ☐ SVOC 625.1 ☐ | PAH 8270 ☐ HOLD PAH ☐ | PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ | PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ | HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ | METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ | RCRA 8 ☐ TX11 ☐ _____ | pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ | ANIONS 300 ☐ 9056 ☐ _____ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RG ☑ IGN ☐ O&GAS ☐ OIL&GREASE ☑ | TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☑

Relinquished By: (Sign)	DATE/TIME	Received by:
[signature]	5-8-24	[signature]
Relinquished By: (Sign)	DATE/TIME	Received by:
[signature] 05/09/2024	0830	[signature]
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 1.2°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE 1 OF 1

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 05/09/2024
PO#:

LAB USE ONLY
DHL WORKORDER #: 2405086

PROJECT LOCATION OR NAME: IPP WEST Long Qtr.
CLIENT PROJECT #
COLLECTOR: Tony

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Lab Use Only

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐	H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐	Zn Acetate ☐	ICE ✓	UNPRESERVE ✓	ANALYSES	FIELD NOTES
Influent Comp	05	05/08/24	12:00	W	P	1		✓					✓		Metals 6020 ☐ 200.8 ☑ DISS. METALS ☐	24 Hr. Comp
Influent Comp	↓	05/08/24	12:00	W	P	1			✓				✓		HERB 8321 ☑ PHOS ☑ AMMONIA ☐	24 Hr. Comp
Influent Comp		05/08/24	12:00	W	P	1				✓			✓		Flouride Nitrate	24 Hr. Comp
Influent Comp		05/08/24	12:00	W	P	8							✓		SVOC 8270 ☐ SVOC 625.1 ✓ PEST 8270 ☐ 625.1 ☑ O-P PEST 8270 ☐ PCB 8082 ☐ 608.3 ☑ PCB 8270 ☐ 625.1 ☐ Organics E. 632	24 Hr. Comp

Relinquished By: (Sign) DATE/TIME 5-8-24 Received by:
Relinquished By: (Sign) DATE/TIME 05/08/2024 08:30 Received by:
Relinquished By: (Sign) DATE/TIME Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 3.3°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: City of Round Rock
ADDRESS: 3400 Sunrise Rd., Round Rock, TX 78665
PHONE: EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: rbornn@roundrocktexas.gov
ADDITIONAL REPORT COPIES TO: kharris@roundrocktexas.gov

DATE: 05/09/2024
PO#:
PROJECT LOCATION OR NAME: IPP WEST Long Qtr.
CLIENT PROJECT #
COLLECTOR:

LAB USE ONLY
DHL WORKORDER #: 2405086

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐ H_3PO_4 ☐	HNO_3	H_2SO_4	NaOH ☐ Zn Acetate ☐	ICE ✓ UNPRESERVE ✓	ANALYSES	BTEX ☐ MTBE ☐ (METHOD 8260)	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO 8015 ☐ DRO 8015 ☐	VOC 8260 ☐ VOC 624.1 ☐	SVOC 8270 ☐ SVOC 625.1 ✓	PAH 8270 ☐ HOLD PAH ☐	PEST 8270 ☐ 625.1 ✓ O-P PEST 8270 ☐	PCB 8082 ☐ 608.3 ✓ PCB 8270 ☐ 625.1 ☐	HERB 8321 ✓ TP PHOS ✓ AMMONIA ☐	METALS 6020 ☐ 200.8 ✓ DISS. METALS ☐	RCRA 8 ☐ TX11 ☐	pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	ANIONS 300 ☐ 9056 ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐	TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐	Organics E. 632	Flouride Nitrate		FIELD NOTES
Effluent Comp	OC	05/08/24	23:59	W	P	1		✓			✓											✓												24 Hr. Comp
EFfluent Comp	↓	05/08/24	23:59	W	P	1			✓		✓											✓												24 Hr. Comp
Effluent Comp		05/08/24	23:59	W	P	1					✓																					✓		24 Hr. Comp
Effluent Comp		05/08/24	23:59	W	P	8					✓						✓		✓	✓	✓										✓			24 Hr. Comp

Relinquished By: (Sign) DATE/TIME 5.8.24 Received by:
Relinquished By: (Sign) DATE/TIME 05/08/2024 08:30 Received by:
Relinquished By: (Sign) DATE/TIME Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY THERMO #: 78
RECEIVING TEMP (°C): 1.2°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ DHL DISPOSAL @ $10.00 each

DHL COC REV 4 | MAR 2023

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	2359	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.94		
				Cyanide	1-250ml Plastic w/NaOH			
				Volatiles	2-VOA vials			
				LL Hg	1-500 ml glass w/HCl			
				Chromium VI	1-250ml plastic			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent Day 1-1200

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	1200	Influent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	2.03		
				Cyanide	1-250ml Plastic w/NaOH			
				Volatiles	2-VOA vials			
				LL Hg	1-500 ml glass w/HCl			
				Chromium VI	1-250ml plastic			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent Day 1-1800

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	1800	Influent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.99		
				Cyanide	1-250ml Plastic w/NaOH			
				Volatiles	2-VOA vials			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent Day 1-23:59

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	2359	Influent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1	1.95	
				Cyanide	1-250ml Amber w/NaOH			
				Volatiles	2 VOA Vials			

Brushy Creek East WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	Start at MIDNIGHT	Effluent	Comp			2.9mgd	BM	
Day 2	Off at MIDNIGHT	Effluent	Comp	Metals (plus Mn & Mo)	1-500ml plastic w/HNO3			
				Phosphorous	1-250ml plastic w/H2SO4			
				Fluoride/Nitrate	1-250ml plastic			
				Herbicides	2-500ml Amber			
				Pesticides	2-500ml Amber			
				Organics	2-500ml Amber			
				PCBs	2-500ml Amber			
				Semi Vol.	2-500ml Amber			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	Start at MIDNIGHT	Effluent	Comp					
Day 2	Off at MIDNIGHT	Effluent	Comp	Metals (plus Mn & Mo)	1-500ml plastic w/HNO3	1.98 MGD		
				Phosphorous	1-250ml plastic w/H2SO4			
				Fluoride/Nitrate	1-250ml plastic			
				Herbicides	2-500ml Amber		A	
				Pesticides	2-500ml Amber			
				Organics	2-500ml Amber			
				PCBs	2-500ml Amber			
				Semi Vol.	2-500ml Amber			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent Day 1-2 Comp 1200

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	Start at NOON	Influent	Comp					
Day 2	OFF at NOON	Influent	Comp	Metals (plus Mn & Mo)	1-500ml plastic w/HNO3	2.00 MGD		
				Phosphorous	1-250ml plastic w/H2SO4			
				Fluoride/Nitrate	1-250ml plastic			
				Herbicides	2-500ml Amber			
				Pesticides	2-500ml Amber			
				Organics	2-500ml Amber			
				PCBs	2-500ml Amber			
				Semi Vol.	2-500ml Amber			

Please start automatic sampler for Influent at noon on Day 1.

Brushy Creek East WWTP
Long Quarter IPP Monitoring Influent Day 1-2 Comp 1200

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 1	Start at NOON	Influent	Comp			26 MGD	I	
Day 2	OFF at NOON	Influent	Comp	Metals (plus Mn & Mo)	1-500ml plastic w/HNO3	2		
				Phosphorous	1-250ml plastic w/H2SO4			
				Fluoride/Nitrate	1-250ml plastic			
				Herbicides	2-500ml Amber			
				Pesticides	2-500ml Amber			
				Organics	2-500ml Amber			
				PCBs	2-500ml Amber			
				Semi Vol.	2-500ml Amber			

Please start automatic sampler for Influent at noon on Day 1.

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 2	0600	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4			
				Cyanide	1-250ml Plastic w/NaOH		1.757	
				Volatiles	2-VOA vials			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 2	1200	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	2.00 MGD		
				Cyanide	1-250ml Plastic w/NaOH			
				Volatiles	2-VOA vials			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 2	1800	Effluent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	1.95		
				Cyanide	1-250ml Plastic w/NaOH			
				Volatiles	2-VOA vials			

Brushy Creek West WWTP
Long Quarter IPP Monitoring Influent/Effluent Day 2-0600

Date	Time	Location	Type	Parameter	Bottle/Preservative	Flow (MGD)	Tech (Initial)	Comments
Day 2	0600	Influent	Grab	Oil and Grease	1-250ml Amber w/H2SO4	W		
				Cyanide	1-250ml Plastic w/NaOH		1757	
				Volatiles	2-VOA vials			

DHL Analytical, Inc.

Day 1

Sample Receipt Checklist

Client Name: CITY OF ROUND ROCK

Date Received: 5/7/2024

Work Order Number: 2405086

Received by: EL

Checklist completed by: _____ 5/7/2024 (Signature / Date)

Reviewed by: SH 5/7/2024 (Initials / Date)

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1
Temp °C	14.7
Seal Intact	NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc.

Day 2

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK** Date Received: **5/7/2024**

Work Order Number: **2405086** Received by: **KAO**

Checklist completed by: _____ 5/8/2024 Reviewed by: DL 5/8/2024
Signature Date Initials Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1
Temp °C	4.6
Seal Intact	NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc.

Day 3

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK**

Date Received: **5/7/2024**

Work Order Number: **2405086**

Received by: **KAO**

Checklist completed by: _____ 5/9/2024 (Signature / Date)

Reviewed by: SH 5/9/2024 (Initials / Date)

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 13171
	Adjusted? NO		Checked by EL
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☑	No ☐	NA ☐ LOT # 12798
	Adjusted? NO		Checked by EL
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1	2
Temp °C	3.3	1.2
Seal Intact	NP	NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc. **Date:** *29-May-24*

CLIENT: CITY OF ROUND ROCK
Project: IPP WEST Plant Long QTR
Lab Order: 2405086

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method E200.8 - Metals Analysis
Method E300 - Anions Analysis
Method E1664A - Oil & Grease Analysis
Method E624.1 - Volatile Organics Analysis
Method E625.1 - Semivolatile Organics Analysis
Method E625.1- PCB Analysis
Method E625.1 - Pesticide Analysis (Some compounds are not NELAP Certified)
Method E632 - Diuron-Hexachlorophene by LCMS Analysis (This parameter is not NELAP Certified)
Method D5812-96MOD - Dicofol in Water Analysis (this parameter is not NELAP certified)
Method D7065-17 - Nonylphenol in Water Analysis (this parameter is not NELAP certified)
Method M4500-CN E - Cyanide Analysis
Method M3500-Cr B - Hexavalent Chromium Analysis
Method M3500-Cr B - Trivalent Chromium (calculation) (this calculation is not NELAP certified)
Method M4500-P E - Total Phosphorus Analysis
Sub-contract - Herbicide and Mercury analyses by method E615 and E245.7. Analyzed at SPL.

LOG IN

The samples were received and log-in performed on 5/7/24 through 5/9/24. A total of 6 samples were received. The samples arrived in good condition and were properly packaged. A composite of the samples was performed in the laboratory at time of analysis for Oil and Grease, Cyanide, Volatile Organics.

VOLATILE ORGANICS ANALYSIS

For Volatiles analysis sample Influent Grabs 1-4 was diluted prior to analysis due to the nature of the sample (matrix).

For Volatiles analysis performed on 5/9/24 the recovery of Methyl bromide for the Initial Calibration Verification (ICV-240509) was below control limits. This is flagged accordingly in the QC summary report. The LCS was within control limits for this compound. No further corrective actions were taken.

SEMIVOLATILE ORGANICS ANALYSIS

For Semivolatiles analysis performed on 5/14/24 the matrix spike and matrix spike duplicate recoveries were above control limits for p-Chloro-m-Cresol. These are flagged accordingly in the QC summary

report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this compound. No further corrective actions were taken.

DIURON-HEXACHLOROPHENE ANALYSIS

For Diuron-Hexachlorophene analysis performed on 5/13/24 the LCS and LCSD recoveries were above control limits for Hexachlorophene. These are flagged accordingly in the QC summary report. Samples Influent Comp and Effluent Comp were below detection limits for this compound. No further corrective actions were taken.

For Diuron-Hexachlorophene analysis performed on 5/13/24 the recovery of Hexachlorophene for the Initial Calibration Verification (ICV-240513) was above control limits. This is flagged accordingly. Samples Influent Comp and Effluent Comp were below detection limits for this compound. No further corrective actions were taken.

OIL & GREASE ANALYSIS

For Oil & Grease analysis performed on 5/10/24 Oil & Grease was detected below the reporting limit in the method blank (MB-115351). Samples Influent Grabs 1-4 and Effluent Grabs 1-4 may be biased high. No further corrective actions were taken.

For Oil & Grease analysis an MS was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT: CITY OF ROUND ROCK
Project: IPP WEST Plant Long QTR
Lab Order: 2405086

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2405086-01	Influent Grab 1		05/07/24 12:00 PM	05/07/2024
2405086-02	Effluent Grab 1		05/07/24 11:59 PM	05/08/2024
2405086-03	Influent Grabs 1-4		05/08/24 06:00 AM	05/09/2024
2405086-04	Effluent Grabs 1-4		05/08/24 06:00 PM	05/09/2024
2405086-05	Influent Comp		05/08/24 12:00 PM	05/09/2024
2405086-06	Effluent Comp		05/08/24 11:59 PM	05/09/2024

Lab Order: 2405086
Client: CITY OF ROUND ROCK
Project: IPP WEST Plant Long QTR

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2405086-01A	Influent Grab 1	05/07/24 12:00 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	05/08/24 10:31 AM	115308
	Influent Grab 1	05/07/24 12:00 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	05/08/24 10:31 AM	115308
2405086-02A	Effluent Grab 1	05/07/24 11:59 PM	Aqueous	M3500-Cr B	Hexachrom Prep Water	05/08/24 10:31 AM	115308
2405086-03A	Influent Grabs 1-4	05/08/24 06:00 AM	Aqueous	E624_PR	Purge and Trap Water GC/MS	05/09/24 09:03 AM	115330
2405086-03B	Influent Grabs 1-4	05/08/24 06:00 AM	Aqueous	M4500-CN E	Cyanide Water Prep	05/15/24 08:03 AM	115390
2405086-03C	Influent Grabs 1-4	05/08/24 06:00 AM	Aqueous	E1664	1664 Prep	05/10/24 08:23 AM	115351
2405086-04A	Effluent Grabs 1-4	05/08/24 06:00 PM	Aqueous	E624_PR	Purge and Trap Water GC/MS	05/09/24 09:03 AM	115330
2405086-04B	Effluent Grabs 1-4	05/08/24 06:00 PM	Aqueous	M4500-CN E	Cyanide Water Prep	05/15/24 08:03 AM	115390
2405086-04C	Effluent Grabs 1-4	05/08/24 06:00 PM	Aqueous	E1664	1664 Prep	05/10/24 08:23 AM	115351
2405086-05A	Influent Comp	05/08/24 12:00 PM	Aqueous	E200.8_PR	Aq Digestion for Metals: ICP-MS	05/15/24 07:08 AM	115398
2405086-05B	Influent Comp	05/08/24 12:00 PM	Aqueous	M4500-P E	T-Phosphorus Prep Water	05/14/24 09:39 AM	115386
2405086-05C	Influent Comp	05/08/24 12:00 PM	Aqueous	E300	Anion Preparation	05/09/24 09:31 AM	115339
2405086-05D	Influent Comp	05/08/24 12:00 PM	Aqueous	E625_PR	Semivol Extraction for 625.1	05/13/24 09:22 AM	115369
	Influent Comp	05/08/24 12:00 PM	Aqueous	E625_PR	Semivol Extraction for 625.1	05/13/24 09:22 AM	115369
2405086-05E	Influent Comp	05/08/24 12:00 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
2405086-05F	Influent Comp	05/08/24 12:00 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
	Influent Comp	05/08/24 12:00 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
2405086-05G	Influent Comp	05/08/24 12:00 PM	Aqueous	E632	632 Prep	05/13/24 08:53 AM	115364
2405086-06A	Effluent Comp	05/08/24 11:59 PM	Aqueous	E200.8_PR	Aq Digestion for Metals: ICP-MS	05/15/24 07:08 AM	115398
2405086-06B	Effluent Comp	05/08/24 11:59 PM	Aqueous	M4500-P E	T-Phosphorus Prep Water	05/14/24 09:39 AM	115386
2405086-06C	Effluent Comp	05/08/24 11:59 PM	Aqueous	E300	Anion Preparation	05/09/24 09:31 AM	115339
2405086-06D	Effluent Comp	05/08/24 11:59 PM	Aqueous	E625_PR	Semivol Extraction for 625.1	05/13/24 09:22 AM	115369
	Effluent Comp	05/08/24 11:59 PM	Aqueous	E625_PR	Semivol Extraction for 625.1	05/13/24 09:22 AM	115369
2405086-06E	Effluent Comp	05/08/24 11:59 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
2405086-06F	Effluent Comp	05/08/24 11:59 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
	Effluent Comp	05/08/24 11:59 PM	Aqueous	E625_PR	Aq Prep Sep Funnel: Pest or PCB	05/10/24 08:47 AM	115352
2405086-06G	Effluent Comp	05/08/24 11:59 PM	Aqueous	E632	632 Prep	05/13/24 08:53 AM	115364

Lab Order: 2405086
Client: CITY OF ROUND ROCK
Project: IPP WEST Plant Long QTR

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2405086-01A	Influent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	115308	1	05/08/24 10:36 AM	UV/VIS_2_240508C
	Influent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	115308	1	05/08/24 10:35 AM	UV/VIS_2_240508C
2405086-01B	Influent Grab 1	Aqueous	E245.7	Mercury Low Level	R133254	1.06	05/15/24 01:41 PM	SUB_240515B
2405086-02A	Effluent Grab 1	Aqueous	M3500-Cr B	Hexavalent Chromium-Water	115308	1	05/08/24 10:38 AM	UV/VIS_2_240508C
2405086-02B	Effluent Grab 1	Aqueous	E245.7	Mercury Low Level	R133254	1.06	05/15/24 01:51 PM	SUB_240515B
2405086-03A	Influent Grabs 1-4	Aqueous	E624.1	624.1 Volatiles Water	115330	5	05/09/24 03:56 PM	GCMS5_240509A
2405086-03B	Influent Grabs 1-4	Aqueous	M4500-CN E	Cyanide - Water Sample	115390	1	05/15/24 03:14 PM	UV/VIS_2_240515D
2405086-03C	Influent Grabs 1-4	Aqueous	E1664A	Total Oil & Grease	115351	1	05/10/24 05:00 PM	WC_240510C
2405086-04A	Effluent Grabs 1-4	Aqueous	E624.1	624.1 Volatiles Water	115330	1	05/09/24 04:21 PM	GCMS5_240509A
2405086-04B	Effluent Grabs 1-4	Aqueous	M4500-CN E	Cyanide - Water Sample	115390	1	05/15/24 03:15 PM	UV/VIS_2_240515D
2405086-04C	Effluent Grabs 1-4	Aqueous	E1664A	Total Oil & Grease	115351	1	05/10/24 05:00 PM	WC_240510C
2405086-05A	Influent Comp	Aqueous	E200.8	Total Recoverable Metals: ICP-MS	115398	1	05/15/24 12:48 PM	ICP-MS5_240515B
2405086-05B	Influent Comp	Aqueous	M4500-P E	Total Phosphorus	115386	10	05/15/24 09:44 AM	UV/VIS_2_240515A
2405086-05C	Influent Comp	Aqueous	E300	Anions by IC method - Water	115339	1	05/09/24 03:15 PM	IC4_240509A
2405086-05D	Influent Comp	Aqueous	E625.1	625.1 Semivolatile Water	115369	1	05/14/24 03:13 PM	GCMS4_240514C
	Influent Comp	Aqueous	D7065-17	Nonylphenol in Water by ASTM Method	115369	1	05/14/24 12:27 PM	GCMS9_240514A
2405086-05E	Influent Comp	Aqueous	E625.1	625.1 PCB by GC/MS	115352	1	05/13/24 03:38 PM	GCMS8_240513A
2405086-05F	Influent Comp	Aqueous	E625.1	625.1 Pesticide by GC/MS	115352	1	05/13/24 02:55 PM	GCMS10_240513A
	Influent Comp	Aqueous	D5812-96mod	Dicofol in Water by ASTM Method	115352	1	05/13/24 02:55 PM	GCMS10_240513B
2405086-05G	Influent Comp	Aqueous	E632	Diuron-Hexachlorophene by LCMS	115364	1	05/13/24 06:55 PM	LCMS2_240513A
2405086-05H	Influent Comp	Aqueous	E615	Herbicide in Water	R133255	1.9	05/17/24 06:37 AM	SUB_240517A
2405086-06A	Effluent Comp	Aqueous	E200.8	Total Recoverable Metals: ICP-MS	115398	1	05/15/24 12:50 PM	ICP-MS5_240515B
2405086-06B	Effluent Comp	Aqueous	M4500-P E	Total Phosphorus	115386	1	05/15/24 09:29 AM	UV/VIS_2_240515A
2405086-06C	Effluent Comp	Aqueous	E300	Anions by IC method - Water	115339	1	05/09/24 03:34 PM	IC4_240509A
2405086-06D	Effluent Comp	Aqueous	E625.1	625.1 Semivolatile Water	115369	1	05/14/24 02:24 PM	GCMS4_240514C
	Effluent Comp	Aqueous	D7065-17	Nonylphenol in Water by ASTM Method	115369	1	05/14/24 11:43 AM	GCMS9_240514A
2405086-06E	Effluent Comp	Aqueous	E625.1	625.1 PCB by GC/MS	115352	1	05/13/24 02:37 PM	GCMS8_240513A
2405086-06F	Effluent Comp	Aqueous	E625.1	625.1 Pesticide by GC/MS	115352	1	05/13/24 02:00 PM	GCMS10_240513A

Lab Order: 2405086
Client: CITY OF ROUND ROCK
Project: IPP WEST Plant Long QTR

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2405086-06F	Effluent Comp	Aqueous	D5812-96mod	Dicofol in Water by ASTM Method	115352	1	05/13/24 02:00 PM	GCMS10_240513B
2405086-06G	Effluent Comp	Aqueous	E632	Diuron-Hexachlorophene by LCMS	115364	1	05/13/24 07:06 PM	LCMS2_240513A
2405086-06H	Effluent Comp	Aqueous	E615	Herbicide in Water	R133255	1.9	05/17/24 06:57 AM	SUB_240517A

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Grab 1
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-01
Project No:		**Collection Date:**	05/07/24 12:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
MERCURY LOW LEVEL		**E245.7**					Analyst: **SUB**
Mercury	0.00307	0.00128	0.00532	J	µg/L	1.06	05/15/24 01:41 PM
HEXAVALENT CHROMIUM-WATER		**M3500-CR B**					Analyst: **JS**
Chromium (Hex)	<3.00	3.00	3.00		µg/L	1	05/08/24 10:35 AM
Chromium (Tri)	<3.00	3.00	3.00	N	µg/L	1	05/08/24 10:35 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Grab 1
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-02
Project No:		**Collection Date:**	05/07/24 11:59 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
MERCURY LOW LEVEL		**E245.7**					Analyst: **SUB**
Mercury	<0.00128	0.00128	0.00532		µg/L	1.06	05/15/24 01:51 PM
HEXAVALENT CHROMIUM-WATER		**M3500-CR B**					Analyst: **JS**
Chromium (Hex)	<3.00	3.00	3.00		µg/L	1	05/08/24 10:38 AM
Chromium (Tri)	<3.00	3.00	3.00	N	µg/L	1	05/08/24 10:38 AM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Grabs 1-4
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-03
Project No:		**Collection Date:**	05/08/24 06:00 AM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL OIL & GREASE		**E1664A**					Analyst: **CF**
Oil & Grease	26200	2370	8460		µg/L	1	05/10/24 05:00 PM
624.1 VOLATILES WATER		**E624.1**					Analyst: **JVR**
Benzene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Carbon tetrachloride	<5.00	5.00	10.0		µg/L	5	05/09/24 03:56 PM
Chlorobenzene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Chloroform	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Chlorodibromomethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,2-Dibromoethane	<5.00	5.00	10.0		µg/L	5	05/09/24 03:56 PM
1,2-Dichloroethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,1-Dichloroethylene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Methyl ethyl ketone	<75.0	75.0	250		µg/L	5	05/09/24 03:56 PM
Tetrachloroethylene	<10.0	10.0	50.0		µg/L	5	05/09/24 03:56 PM
Trichloroethylene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,1,1-Trichloroethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
TTHM (Total Trihalomethanes)	<25.0	25.0	50.0		µg/L	5	05/09/24 03:56 PM
Vinyl chloride	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Acrolein	<75.0	75.0	250		µg/L	5	05/09/24 03:56 PM
Acrylonitrile	<15.0	15.0	250		µg/L	5	05/09/24 03:56 PM
Bromoform	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Chloroethane	<10.0	10.0	50.0		µg/L	5	05/09/24 03:56 PM
2-Chloroethylvinyl Ether	<30.0	30.0	50.0		µg/L	5	05/09/24 03:56 PM
Dichlorobromomethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,1-Dichloroethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,2-Dichloropropane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,3-Dichloropropylene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Ethyl benzene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Methyl bromide	<25.0	25.0	100		µg/L	5	05/09/24 03:56 PM
Methyl chloride	<5.00	5.00	100		µg/L	5	05/09/24 03:56 PM
Methylene chloride	<12.5	12.5	100		µg/L	5	05/09/24 03:56 PM
1,1,2,2-Tetra-chloroethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
Toluene	<10.0	10.0	50.0		µg/L	5	05/09/24 03:56 PM
1,2-Trans-Dichloroethylene	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,1,2-Trichloroethane	<5.00	5.00	50.0		µg/L	5	05/09/24 03:56 PM
1,2-Dichlorobenzene	<5.00	5.00	25.0		µg/L	5	05/09/24 03:56 PM
1,3-Dichlorobenzene	<5.00	5.00	25.0		µg/L	5	05/09/24 03:56 PM
1,4-Dichlorobenzene	<5.00	5.00	25.0		µg/L	5	05/09/24 03:56 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	5	05/09/24 03:56 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	5	05/09/24 03:56 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Grabs 1-4
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-03
Project No:		**Collection Date:**	05/08/24 06:00 AM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		**E624.1**					Analyst: **JVR**
Surr: Dibromofluoromethane	99.5	0	85-115		%REC	5	05/09/24 03:56 PM
Surr: Toluene-d8	107	0	81-120		%REC	5	05/09/24 03:56 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Available	<10.0	10.0	10.0		µg/L	1	05/15/24 03:14 PM
Cyanide, Total	<10.0	10.0	10.0		µg/L	1	05/15/24 03:14 PM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Grabs 1-4
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-04
Project No:		**Collection Date:**	05/08/24 06:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL OIL & GREASE		**E1664A**					Analyst: **CF**
Oil & Grease	2110	1410	5030	J	µg/L	1	05/10/24 05:00 PM
624.1 VOLATILES WATER		**E624.1**					Analyst: **JVR**
Benzene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Carbon tetrachloride	<1.00	1.00	2.00		µg/L	1	05/09/24 04:21 PM
Chlorobenzene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Chloroform	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Chlorodibromomethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,2-Dibromoethane	<1.00	1.00	2.00		µg/L	1	05/09/24 04:21 PM
1,2-Dichloroethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,1-Dichloroethylene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Methyl ethyl ketone	<15.0	15.0	50.0		µg/L	1	05/09/24 04:21 PM
Tetrachloroethylene	<2.00	2.00	10.0		µg/L	1	05/09/24 04:21 PM
Trichloroethylene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,1,1-Trichloroethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
TTHM (Total Trihalomethanes)	<5.00	5.00	10.0		µg/L	1	05/09/24 04:21 PM
Vinyl chloride	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Acrolein	<15.0	15.0	50.0		µg/L	1	05/09/24 04:21 PM
Acrylonitrile	<3.00	3.00	50.0		µg/L	1	05/09/24 04:21 PM
Bromoform	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Chloroethane	<2.00	2.00	10.0		µg/L	1	05/09/24 04:21 PM
2-Chloroethylvinyl Ether	<6.00	6.00	10.0		µg/L	1	05/09/24 04:21 PM
Dichlorobromomethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,1-Dichloroethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,2-Dichloropropane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,3-Dichloropropylene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Ethyl benzene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Methyl bromide	<5.00	5.00	20.0		µg/L	1	05/09/24 04:21 PM
Methyl chloride	<1.00	1.00	20.0		µg/L	1	05/09/24 04:21 PM
Methylene chloride	<2.50	2.50	20.0		µg/L	1	05/09/24 04:21 PM
1,1,2,2-Tetra-chloroethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
Toluene	<2.00	2.00	10.0		µg/L	1	05/09/24 04:21 PM
1,2-Trans-Dichloroethylene	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,1,2-Trichloroethane	<1.00	1.00	10.0		µg/L	1	05/09/24 04:21 PM
1,2-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	05/09/24 04:21 PM
1,3-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	05/09/24 04:21 PM
1,4-Dichlorobenzene	<1.00	1.00	5.00		µg/L	1	05/09/24 04:21 PM
Surr: 1,2-Dichloroethane-d4	104	0	72-119		%REC	1	05/09/24 04:21 PM
Surr: 4-Bromofluorobenzene	108	0	76-119		%REC	1	05/09/24 04:21 PM

Qualifiers:

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DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Grabs 1-4
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-04
Project No:		**Collection Date:**	05/08/24 06:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
624.1 VOLATILES WATER		**E624.1**					Analyst: **JVR**
Surr: Dibromofluoromethane	98.9	0	85-115		%REC	1	05/09/24 04:21 PM
Surr: Toluene-d8	107	0	81-120		%REC	1	05/09/24 04:21 PM
CYANIDE - WATER SAMPLE		**M4500-CN E**					Analyst: **SMA**
Cyanide, Available	<10.0	10.0	10.0		µg/L	1	05/15/24 03:15 PM
Cyanide, Total	<10.0	10.0	10.0		µg/L	1	05/15/24 03:15 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-05
Project No:		**Collection Date:**	05/08/24 12:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE BY LCMS		**E632**					Analyst: **RA**
Diuron	<0.278	0.278	0.741	N	µg/L	1	05/13/24 06:55 PM
Hexachlorophene	<9.26	9.26	46.3	N	µg/L	1	05/13/24 06:55 PM
Surr: Carbazole	73.2	0	35-145		%REC	1	05/13/24 06:55 PM
TOTAL RECOVERABLE METALS: ICP-MS		**E200.8**					Analyst: **SP**
Aluminum, Total	534	10.0	30.0		µg/L	1	05/15/24 12:48 PM
Antimony, Total	<0.800	0.800	2.50		µg/L	1	05/15/24 12:48 PM
Arsenic, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:48 PM
Barium, Total	55.6	3.00	10.0		µg/L	1	05/15/24 12:48 PM
Beryllium, Total	<0.300	0.300	1.00		µg/L	1	05/15/24 12:48 PM
Cadmium, Total	<0.300	0.300	1.00		µg/L	1	05/15/24 12:48 PM
Chromium, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:48 PM
Copper, Total	25.3	2.00	10.0		µg/L	1	05/15/24 12:48 PM
Lead, Total	1.06	0.300	1.00		µg/L	1	05/15/24 12:48 PM
Manganese	30.0	2.00	2.00		µg/L	1	05/15/24 12:48 PM
Molybdenum	2.04	2.00	5.00	J	µg/L	1	05/15/24 12:48 PM
Nickel, Total	<3.00	3.00	10.0		µg/L	1	05/15/24 12:48 PM
Selenium, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:48 PM
Silver, Total	<1.00	1.00	2.00		µg/L	1	05/15/24 12:48 PM
Thallium, Total	<0.500	0.500	1.50		µg/L	1	05/15/24 12:48 PM
Zinc, Total	63.2	2.00	5.00		µg/L	1	05/15/24 12:48 PM
625.1 PCB BY GC/MS		**E625.1**					Analyst: **DEW**
Aroclor 1016	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1221	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1232	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1242	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1248	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1254	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Aroclor 1260	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Total PCBs	<0.951	0.951	1.90		µg/L	1	05/13/24 03:38 PM
Surr: 2-Fluorobiphenyl	51.5	0	43-116		%REC	1	05/13/24 03:38 PM
Surr: 4-Terphenyl-d14	65.9	0	33-141		%REC	1	05/13/24 03:38 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Benzidine	<47.3	47.3	473		µg/L	1	05/14/24 03:13 PM
Benzo(a)anthracene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Benzo(a)pyrene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Chrysene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
2,4-Dimethylphenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM

Qualifiers:

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DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-05
Project No:		**Collection Date:**	05/08/24 12:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
4,6-Dinitro-o-cresol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
m,p-Cresols	64.4	18.9	94.7	J	µg/L	1	05/14/24 03:13 PM
o-Cresols	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
p-Chloro-m-Cresol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Hexachlorobenzene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Hexachlorobutadiene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Hexachloroethane	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Nitrobenzene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
N-Nitrosodiethylamine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
N-Nitro-di-n-Butylamine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Pentachlorobenzene	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Pentachlorophenol	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Phenanthrene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Pyridine	<37.9	37.9	189		µg/L	1	05/14/24 03:13 PM
1,2,4,5-Tetrachlorobenzene	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
2,4,5-Trichlorophenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
2-Chlorophenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
2,4-Dichlorophenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
2,4-Dinitrophenol	<18.9	18.9	473		µg/L	1	05/14/24 03:13 PM
2-Nitrophenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
4-Nitrophenol	<18.9	18.9	473		µg/L	1	05/14/24 03:13 PM
Phenol	30.3	18.9	94.7	J	µg/L	1	05/14/24 03:13 PM
2,4,6-Trichlorophenol	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
3,4-Benzofluoranthene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Acenaphthene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Acenaphthylene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Anthracene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Benzo(ghi)perylene	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Benzo(k)Fluoranthene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Bis(2-chloroethoxy)methane	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Bis(2-chloroethyl)ether	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Bis(2-chloroisopropyl)ether	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Bis(2-ethylhexyl)phthalate	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
4-Bromophenyl phenyl ether	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Butylbenzyl Phthalate	<37.9	37.9	94.7		µg/L	1	05/14/24 03:13 PM
2-Chloronaphthalene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
4-Chlorophenyl phenyl ether	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Dibenzo(a,h)Anthracene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM

Qualifiers:

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DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-05
Project No:		**Collection Date:**	05/08/24 12:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
3,3-Dichlorobenzidine	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Diethyl phthalate	<37.9	37.9	94.7		µg/L	1	05/14/24 03:13 PM
Dimethyl phthalate	<37.9	37.9	94.7		µg/L	1	05/14/24 03:13 PM
Di-n-butyl phthalate	<37.9	37.9	94.7		µg/L	1	05/14/24 03:13 PM
2,4-Dinitrotoluene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
2,6-Dinitrotoluene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Di-n-octyl phthalate	<37.9	37.9	94.7		µg/L	1	05/14/24 03:13 PM
1,2-Diphenyl Hydrazine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Fluoranthene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Fluorene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Hexachloro-cyclopentadiene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Indeno(1,2,3-cd)pyrene	<18.9	18.9	47.3		µg/L	1	05/14/24 03:13 PM
Isophorone	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Naphthalene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
N-Nitrosodimethylamine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
N-Nitrosodi-n-propylamine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
N-Nitrosodiphenylamine	<18.9	18.9	189		µg/L	1	05/14/24 03:13 PM
Pyrene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
1,2,4-Trichlorobenzene	<18.9	18.9	94.7		µg/L	1	05/14/24 03:13 PM
Cresols	64.4	18.9	94.7	J	µg/L	1	05/14/24 03:13 PM
Phenol, Total	30.3	18.9	94.7	J	µg/L	1	05/14/24 03:13 PM
Surr: 2,4,6-Tribromophenol	81.8	0	10-123		%REC	1	05/14/24 03:13 PM
Surr: 2-Fluorobiphenyl	66.0	0	43-116		%REC	1	05/14/24 03:13 PM
Surr: 2-Fluorophenol	32.5	0	21-100		%REC	1	05/14/24 03:13 PM
Surr: 4-Terphenyl-d14	94.0	0	33-141		%REC	1	05/14/24 03:13 PM
Surr: Nitrobenzene-d5	67.5	0	35-115		%REC	1	05/14/24 03:13 PM
Surr: Phenol-d5	20.8	0	10-94		%REC	1	05/14/24 03:13 PM
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
4,4-DDD	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
4,4-DDE	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
4,4-DDT	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Aldrin	<0.0896	0.0896	0.0896		µg/L	1	05/13/24 02:55 PM
alpha-BHC	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
alpha-Endosulfan	<0.0896	0.0896	0.0896		µg/L	1	05/13/24 02:55 PM
beta-BHC	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
beta-Endosulfan	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Carbaryl	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Chlordane	<0.538	0.538	1.79	N	µg/L	1	05/13/24 02:55 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
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DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Influent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-05
Project No:		**Collection Date:**	05/08/24 12:00 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
Chloropyrifos	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
delta-BHC	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Diazinon	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Dieldrin	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Endosulfan sulfate	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Endrin	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Endrin aldehyde	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
gamma-BHC	<0.0896	0.0896	0.179		µg/L	1	05/13/24 02:55 PM
Guthion	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Heptachlor	<0.0896	0.0896	0.0896		µg/L	1	05/13/24 02:55 PM
Heptachlor epoxide	<0.0896	0.0896	0.0896		µg/L	1	05/13/24 02:55 PM
Malathion	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Methoxychlor	<0.179	0.179	0.179	N	µg/L	1	05/13/24 02:55 PM
Mirex	<0.0896	0.0896	0.179	N	µg/L	1	05/13/24 02:55 PM
Parathion	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Toxaphene	<2.69	2.69	2.69		µg/L	1	05/13/24 02:55 PM
Demeton	<0.0896	0.0896	0.269	N	µg/L	1	05/13/24 02:55 PM
Surr: 2-Fluorobiphenyl	60.6	0	43-116		%REC	1	05/13/24 02:55 PM
Surr: 4-Terphenyl-d14	96.7	0	33-141		%REC	1	05/13/24 02:55 PM
DICOFOL IN WATER BY ASTM METHOD		**D5812-96MOD**					Analyst: **DEW**
Dicofol	<1.79	1.79	3.58	N	µg/L	1	05/13/24 02:55 PM
NONYLPHENOL IN WATER BY ASTM METHOD		**D7065-17**					Analyst: **DEW**
Nonylphenol	<663	663	947	N	µg/L	1	05/14/24 12:27 PM
HERBICIDE IN WATER		**E615**					Analyst: **SUB**
2,4-D	<0.303	0.303	0.952		µg/L	1.9	05/17/24 06:37 AM
2,4,5-TP (Silvex)	<0.170	0.170	0.571		µg/L	1.9	05/17/24 06:37 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **KES**
Fluoride	181	100	400	J	µg/L	1	05/09/24 03:15 PM
Nitrate-N	<100	100	500		µg/L	1	05/09/24 03:15 PM
TOTAL PHOSPHORUS		**M4500-P E**					Analyst: **KES**
Phosphorus	3850	400	1000		µg/L	10	05/15/24 09:44 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-06
Project No:		**Collection Date:**	05/08/24 11:59 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
DIURON-HEXACHLOROPHENE BY LCMS		**E632**					Analyst: **RA**
Diuron	<0.0293	0.0293	0.0783	N	µg/L	1	05/13/24 07:06 PM
Hexachlorophene	<0.978	0.978	4.89	N	µg/L	1	05/13/24 07:06 PM
Surr: Carbazole	60.8	0	35-145		%REC	1	05/13/24 07:06 PM
TOTAL RECOVERABLE METALS: ICP-MS		**E200.8**					Analyst: **SP**
Aluminum, Total	27.1	10.0	30.0	J	µg/L	1	05/15/24 12:50 PM
Antimony, Total	<0.800	0.800	2.50		µg/L	1	05/15/24 12:50 PM
Arsenic, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:50 PM
Barium, Total	39.7	3.00	10.0		µg/L	1	05/15/24 12:50 PM
Beryllium, Total	<0.300	0.300	1.00		µg/L	1	05/15/24 12:50 PM
Cadmium, Total	<0.300	0.300	1.00		µg/L	1	05/15/24 12:50 PM
Chromium, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:50 PM
Copper, Total	4.19	2.00	10.0	J	µg/L	1	05/15/24 12:50 PM
Lead, Total	<0.300	0.300	1.00		µg/L	1	05/15/24 12:50 PM
Manganese	4.13	2.00	2.00		µg/L	1	05/15/24 12:50 PM
Molybdenum	<2.00	2.00	5.00		µg/L	1	05/15/24 12:50 PM
Nickel, Total	<3.00	3.00	10.0		µg/L	1	05/15/24 12:50 PM
Selenium, Total	<2.00	2.00	5.00		µg/L	1	05/15/24 12:50 PM
Silver, Total	<1.00	1.00	2.00		µg/L	1	05/15/24 12:50 PM
Thallium, Total	<0.500	0.500	1.50		µg/L	1	05/15/24 12:50 PM
Zinc, Total	36.1	2.00	5.00		µg/L	1	05/15/24 12:50 PM
625.1 PCB BY GC/MS		**E625.1**					Analyst: **DEW**
Aroclor 1016	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1221	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1232	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1242	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1248	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1254	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Aroclor 1260	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Total PCBs	<0.0983	0.0983	0.197		µg/L	1	05/13/24 02:37 PM
Surr: 2-Fluorobiphenyl	52.4	0	43-116		%REC	1	05/13/24 02:37 PM
Surr: 4-Terphenyl-d14	64.1	0	33-141		%REC	1	05/13/24 02:37 PM
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
Benzidine	<4.76	4.76	47.6		µg/L	1	05/14/24 02:24 PM
Benzo(a)anthracene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Benzo(a)pyrene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Chrysene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
2,4-Dimethylphenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-06
Project No:		**Collection Date:**	05/08/24 11:59 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
4,6-Dinitro-o-cresol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
m,p-Cresols	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
o-Cresols	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
p-Chloro-m-Cresol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Hexachlorobenzene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Hexachlorobutadiene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Hexachloroethane	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Nitrobenzene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
N-Nitrosodiethylamine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
N-Nitro-di-n-Butylamine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Pentachlorobenzene	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Pentachlorophenol	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Phenanthrene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Pyridine	<3.81	3.81	19.0		µg/L	1	05/14/24 02:24 PM
1,2,4,5-Tetrachlorobenzene	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
2,4,5-Trichlorophenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
2-Chlorophenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
2,4-Dichlorophenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
2,4-Dinitrophenol	<1.90	1.90	47.6		µg/L	1	05/14/24 02:24 PM
2-Nitrophenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
4-Nitrophenol	<1.90	1.90	47.6		µg/L	1	05/14/24 02:24 PM
Phenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
2,4,6-Trichlorophenol	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
3,4-Benzofluoranthene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Acenaphthene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Acenaphthylene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Anthracene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Benzo(ghi)perylene	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Benzo(k)Fluoranthene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Bis(2-chloroethoxy)methane	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Bis(2-chloroethyl)ether	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Bis(2-chloroisopropyl)ether	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Bis(2-ethylhexyl)phthalate	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
4-Bromophenyl phenyl ether	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Butylbenzyl Phthalate	<3.81	3.81	9.52		µg/L	1	05/14/24 02:24 PM
2-Chloronaphthalene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
4-Chlorophenyl phenyl ether	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Dibenzo(a,h)Anthracene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM

Qualifiers:

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DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-06
Project No:		**Collection Date:**	05/08/24 11:59 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 SEMIVOLATILE WATER		**E625.1**					Analyst: **DEW**
3,3-Dichlorobenzidine	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Diethyl phthalate	<3.81	3.81	9.52		µg/L	1	05/14/24 02:24 PM
Dimethyl phthalate	<3.81	3.81	9.52		µg/L	1	05/14/24 02:24 PM
Di-n-butyl phthalate	<3.81	3.81	9.52		µg/L	1	05/14/24 02:24 PM
2,4-Dinitrotoluene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
2,6-Dinitrotoluene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Di-n-octyl phthalate	<3.81	3.81	9.52		µg/L	1	05/14/24 02:24 PM
1,2-Diphenyl Hydrazine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Fluoranthene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Fluorene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Hexachloro-cyclopentadiene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Indeno(1,2,3-cd)pyrene	<1.90	1.90	4.76		µg/L	1	05/14/24 02:24 PM
Isophorone	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Naphthalene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
N-Nitrosodimethylamine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
N-Nitrosodi-n-propylamine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
N-Nitrosodiphenylamine	<1.90	1.90	19.0		µg/L	1	05/14/24 02:24 PM
Pyrene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
1,2,4-Trichlorobenzene	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Cresols	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Phenol, Total	<1.90	1.90	9.52		µg/L	1	05/14/24 02:24 PM
Surr: 2,4,6-Tribromophenol	82.2	0	10-123		%REC	1	05/14/24 02:24 PM
Surr: 2-Fluorobiphenyl	83.5	0	43-116		%REC	1	05/14/24 02:24 PM
Surr: 2-Fluorophenol	45.0	0	21-100		%REC	1	05/14/24 02:24 PM
Surr: 4-Terphenyl-d14	103	0	33-141		%REC	1	05/14/24 02:24 PM
Surr: Nitrobenzene-d5	86.0	0	35-115		%REC	1	05/14/24 02:24 PM
Surr: Phenol-d5	28.5	0	10-94		%REC	1	05/14/24 02:24 PM
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
4,4-DDD	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
4,4-DDE	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
4,4-DDT	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Aldrin	<0.00974	0.00974	0.00974		µg/L	1	05/13/24 02:00 PM
alpha-BHC	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
alpha-Endosulfan	<0.00974	0.00974	0.00974		µg/L	1	05/13/24 02:00 PM
beta-BHC	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
beta-Endosulfan	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Carbaryl	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Chlordane	<0.0585	0.0585	0.195	N	µg/L	1	05/13/24 02:00 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *29-May-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	Effluent Comp
Project:	IPP WEST Plant Long QTR	**Lab ID:**	2405086-06
Project No:		**Collection Date:**	05/08/24 11:59 PM
Lab Order:	2405086	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
625.1 PESTICIDE BY GC/MS		**E625.1**					Analyst: **DEW**
Chloropyrifos	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
delta-BHC	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Diazinon	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Dieldrin	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Endosulfan sulfate	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Endrin	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Endrin aldehyde	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
gamma-BHC	<0.00974	0.00974	0.0195		µg/L	1	05/13/24 02:00 PM
Guthion	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Heptachlor	<0.00974	0.00974	0.00974		µg/L	1	05/13/24 02:00 PM
Heptachlor epoxide	<0.00974	0.00974	0.00974		µg/L	1	05/13/24 02:00 PM
Malathion	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Methoxychlor	<0.0195	0.0195	0.0195	N	µg/L	1	05/13/24 02:00 PM
Mirex	<0.00974	0.00974	0.0195	N	µg/L	1	05/13/24 02:00 PM
Parathion	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Toxaphene	<0.292	0.292	0.292		µg/L	1	05/13/24 02:00 PM
Demeton	<0.00974	0.00974	0.0292	N	µg/L	1	05/13/24 02:00 PM
Surr: 2-Fluorobiphenyl	74.7	0	43-116		%REC	1	05/13/24 02:00 PM
Surr: 4-Terphenyl-d14	101	0	33-141		%REC	1	05/13/24 02:00 PM
DICOFOL IN WATER BY ASTM METHOD		**D5812-96MOD**					Analyst: **DEW**
Dicofol	<0.195	0.195	0.390	N	µg/L	1	05/13/24 02:00 PM
NONYLPHENOL IN WATER BY ASTM METHOD		**D7065-17**					Analyst: **DEW**
Nonylphenol	<66.6	66.6	95.2	N	µg/L	1	05/14/24 11:43 AM
HERBICIDE IN WATER		**E615**					Analyst: **SUB**
2,4-D	0.776	0.302	0.949	J	µg/L	1.9	05/17/24 06:57 AM
2,4,5-TP (Silvex)	0.914	0.170	0.569		µg/L	1.9	05/17/24 06:57 AM
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **KES**
Fluoride	255	100	400	J	µg/L	1	05/09/24 03:34 PM
Nitrate-N	10400	100	500		µg/L	1	05/09/24 03:34 PM
TOTAL PHOSPHORUS		**M4500-P E**					Analyst: **KES**
Phosphorus	247	40.0	100		µg/L	1	05/15/24 09:29 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
S	Spike Recovery outside control limits	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_240513A

The QC data in batch 115364 applies to the following samples: 2405086-05G, 2405086-06G

Sample ID: **MB-115364** Batch ID: **115364** TestNo: **E632** Units: **µg/L**
SampType: **MBLK** Run ID: **LCMS2_240513A** Analysis Date: **5/13/2024 5:13:53 PM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	<0.0300	0.0800								N
Hexachlorophene	<1.00	5.00								N
Surr: Carbazole	6.09		10.00		60.9	35	145			

Sample ID: **LCS-115364** Batch ID: **115364** TestNo: **E632** Units: **µg/L**
SampType: **LCS** Run ID: **LCMS2_240513A** Analysis Date: **5/13/2024 5:25:10 PM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	1.77	0.0800	2.000	0	88.6	35	145			N
Hexachlorophene	3.03	5.00	2.000	0	152	35	145			SN
Surr: Carbazole	7.44		10.00		74.4	35	145			

Sample ID: **LCSD-115364** Batch ID: **115364** TestNo: **E632** Units: **µg/L**
SampType: **LCSD** Run ID: **LCMS2_240513A** Analysis Date: **5/13/2024 5:36:27 PM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	2.09	0.0800	2.000	0	104	35	145	16.4	30	N
Hexachlorophene	3.32	5.00	2.000	0	166	35	145	8.94	30	SN
Surr: Carbazole	7.88		10.00		78.8	35	145	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: LCMS2_240513A

Sample ID: **ICV-240513** Batch ID: **R133018** TestNo: **E632** Units: **µg/L**
SampType: **ICV** Run ID: **LCMS2_240513A** Analysis Date: **5/13/2024 11:12:54 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diuron	100	0.0800	100.0	0	100	90	110			N
Hexachlorophene	138	5.00	100.0	0	138	90	110			SN
Surr: Carbazole	1020		1000		102	35	145			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS5_240515B**

The QC data in batch 115398 applies to the following samples: 2405086-05A, 2405086-06A

Sample ID: **MB-115398** Batch ID: **115398** TestNo: **E200.8** Units: **µg/L**
SampType: **MBLK** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 12:29:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	<10.0	30.0								
Antimony, Total	<0.800	2.50								
Arsenic, Total	<2.00	5.00								
Barium, Total	<3.00	10.0								
Beryllium, Total	<0.300	1.00								
Cadmium, Total	<0.300	1.00								
Chromium, Total	<2.00	5.00								
Copper, Total	<2.00	10.0								
Lead, Total	<0.300	1.00								
Manganese	<2.00	2.00								
Molybdenum	<2.00	5.00								
Nickel, Total	<3.00	10.0								
Selenium, Total	<2.00	5.00								
Silver, Total	<1.00	2.00								
Thallium, Total	<0.500	1.50								
Zinc, Total	<2.00	5.00								

Sample ID: **LCS-115398** Batch ID: **115398** TestNo: **E200.8** Units: **µg/L**
SampType: **LCS** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 12:32:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5050	30.0	5000	0	101	85	115			
Antimony, Total	204	2.50	200.0	0	102	85	115			
Arsenic, Total	201	5.00	200.0	0	100	85	115			
Barium, Total	200	10.0	200.0	0	100	85	115			
Beryllium, Total	191	1.00	200.0	0	95.3	85	115			
Cadmium, Total	200	1.00	200.0	0	99.8	85	115			
Chromium, Total	199	5.00	200.0	0	99.7	85	115			
Copper, Total	202	10.0	200.0	0	101	85	115			
Lead, Total	196	1.00	200.0	0	98.1	85	115			
Manganese	202	2.00	200.0	0	101	85	115			
Molybdenum	198	5.00	200.0	0	99.0	85	115			
Nickel, Total	205	10.0	200.0	0	102	85	115			
Selenium, Total	207	5.00	200.0	0	103	85	115			
Silver, Total	206	2.00	200.0	0	103	85	115			
Thallium, Total	194	1.50	200.0	0	96.9	85	115			
Zinc, Total	203	5.00	200.0	0	101	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240515B

Sample ID: **LCSD-115398** Batch ID: **115398** TestNo: **E200.8** Units: **µg/L**
SampType: **LCSD** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 12:35:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	4980	30.0	5000	0	99.6	85	115	1.48	15	
Antimony, Total	206	2.50	200.0	0	103	85	115	0.736	15	
Arsenic, Total	199	5.00	200.0	0	99.3	85	115	1.11	15	
Barium, Total	202	10.0	200.0	0	101	85	115	0.559	15	
Beryllium, Total	190	1.00	200.0	0	95.2	85	115	0.082	15	
Cadmium, Total	199	1.00	200.0	0	99.7	85	115	0.121	15	
Chromium, Total	197	5.00	200.0	0	98.7	85	115	1.01	15	
Copper, Total	202	10.0	200.0	0	101	85	115	0.161	15	
Lead, Total	198	1.00	200.0	0	99.1	85	115	1.06	15	
Manganese	199	2.00	200.0	0	99.7	85	115	1.16	15	
Molybdenum	200	5.00	200.0	0	99.8	85	115	0.769	15	
Nickel, Total	204	10.0	200.0	0	102	85	115	0.359	15	
Selenium, Total	205	5.00	200.0	0	102	85	115	1.15	15	
Silver, Total	206	2.00	200.0	0	103	85	115	0.229	15	
Thallium, Total	196	1.50	200.0	0	98.1	85	115	1.26	15	
Zinc, Total	201	5.00	200.0	0	101	85	115	0.766	15	

Sample ID: **2405085-07A SD** Batch ID: **115398** TestNo: **E200.8** Units: **µg/L**
SampType: **SD** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 12:42:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	<50.0	150	0	47.37				0	10	
Antimony, Total	<4.00	12.5	0	0				0	10	
Arsenic, Total	<10.0	25.0	0	0.9830				0	10	
Barium, Total	22.1	50.0	0	22.98				3.95	10	
Beryllium, Total	<1.50	5.00	0	0				0	10	
Cadmium, Total	<1.50	5.00	0	0				0	10	
Chromium, Total	<10.0	25.0	0	0				0	10	
Copper, Total	<10.0	50.0	0	3.729				0	10	
Lead, Total	<1.50	5.00	0	0				0	10	
Manganese	14.3	10.0	0	14.53				1.74	10	
Molybdenum	<10.0	25.0	0	2.095				0	10	
Nickel, Total	<15.0	50.0	0	0				0	10	
Selenium, Total	<10.0	25.0	0	0				0	10	
Silver, Total	<5.00	10.0	0	0				0	10	
Thallium, Total	<2.50	7.50	0	0				0	10	
Zinc, Total	26.9	25.0	0	26.14				3.01	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240515B

Sample ID: **2405085-07A PDS**	Batch ID: **115398**	TestNo: **E200.8**	Units: **µg/L**
SampType: **PDS**	Run ID: **ICP-MS5_240515B**	Analysis Date: **5/15/2024 1:09:00 PM**	Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	4980	30.0	5000	47.37	98.6	75	125			
Antimony, Total	177	2.50	200.0	0	88.6	75	125			
Arsenic, Total	188	5.00	200.0	0.9830	93.4	75	125			
Barium, Total	216	10.0	200.0	22.98	96.6	75	125			
Beryllium, Total	187	1.00	200.0	0	93.4	75	125			
Cadmium, Total	193	1.00	200.0	0	96.5	75	125			
Chromium, Total	193	5.00	200.0	0	96.4	75	125			
Copper, Total	191	10.0	200.0	3.729	93.8	75	125			
Lead, Total	191	1.00	200.0	0	95.7	75	125			
Manganese	201	2.00	200.0	14.53	93.4	75	125			
Molybdenum	191	5.00	200.0	2.095	94.6	75	125			
Nickel, Total	195	10.0	200.0	0	97.4	75	125			
Selenium, Total	183	5.00	200.0	0	91.7	75	125			
Silver, Total	194	2.00	200.0	0	97.0	75	125			
Thallium, Total	192	1.50	200.0	0	96.1	75	125			
Zinc, Total	211	5.00	200.0	26.14	92.4	75	125			

Sample ID: **2405085-07A MS**	Batch ID: **115398**	TestNo: **E200.8**	Units: **µg/L**
SampType: **MS**	Run ID: **ICP-MS5_240515B**	Analysis Date: **5/15/2024 1:11:00 PM**	Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5060	30.0	5000	47.37	100	70	130			
Antimony, Total	208	2.50	200.0	0	104	70	130			
Arsenic, Total	202	5.00	200.0	0.9830	100	70	130			
Barium, Total	224	10.0	200.0	22.98	101	70	130			
Beryllium, Total	192	1.00	200.0	0	95.9	70	130			
Cadmium, Total	198	1.00	200.0	0	99.0	70	130			
Chromium, Total	198	5.00	200.0	0	99.0	70	130			
Copper, Total	201	10.0	200.0	3.729	98.8	70	130			
Lead, Total	200	1.00	200.0	0	100	70	130			
Manganese	213	2.00	200.0	14.53	99.0	70	130			
Molybdenum	205	5.00	200.0	2.095	101	70	130			
Nickel, Total	200	10.0	200.0	0	99.9	70	130			
Selenium, Total	195	5.00	200.0	0	97.4	70	130			
Silver, Total	202	2.00	200.0	0	101	70	130			
Thallium, Total	198	1.50	200.0	0	98.9	70	130			
Zinc, Total	222	5.00	200.0	26.14	98.0	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240515B

Sample ID: **2405085-07A MSD** Batch ID: **115398** TestNo: **E200.8** Units: **µg/L**
SampType: **MSD** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 1:14:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5110	30.0	5000	47.37	101	70	130	0.923	15	
Antimony, Total	208	2.50	200.0	0	104	70	130	0.289	15	
Arsenic, Total	201	5.00	200.0	0.9830	100	70	130	0.275	15	
Barium, Total	227	10.0	200.0	22.98	102	70	130	1.18	15	
Beryllium, Total	192	1.00	200.0	0	95.8	70	130	0.065	15	
Cadmium, Total	199	1.00	200.0	0	99.5	70	130	0.474	15	
Chromium, Total	202	5.00	200.0	0	101	70	130	1.88	15	
Copper, Total	204	10.0	200.0	3.729	99.9	70	130	1.07	15	
Lead, Total	203	1.00	200.0	0	102	70	130	1.48	15	
Manganese	217	2.00	200.0	14.53	101	70	130	2.23	15	
Molybdenum	208	5.00	200.0	2.095	103	70	130	1.66	15	
Nickel, Total	202	10.0	200.0	0	101	70	130	0.887	15	
Selenium, Total	197	5.00	200.0	0	98.5	70	130	1.17	15	
Silver, Total	204	2.00	200.0	0	102	70	130	0.991	15	
Thallium, Total	202	1.50	200.0	0	101	70	130	2.10	15	
Zinc, Total	223	5.00	200.0	26.14	98.3	70	130	0.313	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240515B

Sample ID: **ICV-240515**	Batch ID: **R133057**	TestNo: **E200.8**	Units: **µg/L**
SampType: **ICV**	Run ID: **ICP-MS5_240515B**	Analysis Date: **5/15/2024 9:53:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	2470	30.0	2500	0	99.0	90	110			
Antimony, Total	101	2.50	100.0	0	101	90	110			
Arsenic, Total	97.4	5.00	100.0	0	97.4	90	110			
Barium, Total	101	10.0	100.0	0	101	90	110			
Beryllium, Total	96.4	1.00	100.0	0	96.4	90	110			
Cadmium, Total	100	1.00	100.0	0	100	90	110			
Chromium, Total	100	5.00	100.0	0	100	90	110			
Copper, Total	101	10.0	100.0	0	101	90	110			
Lead, Total	98.3	1.00	100.0	0	98.3	90	110			
Manganese	98.9	2.00	100.0	0	98.9	90	110			
Molybdenum	97.5	5.00	100.0	0	97.5	90	110			
Nickel, Total	105	10.0	100.0	0	105	90	110			
Selenium, Total	103	5.00	100.0	0	103	90	110			
Silver, Total	103	2.00	100.0	0	103	90	110			
Thallium, Total	96.6	1.50	100.0	0	96.6	90	110			
Zinc, Total	101	5.00	100.0	0	101	90	110			

Sample ID: **CCV2-240515**	Batch ID: **R133057**	TestNo: **E200.8**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS5_240515B**	Analysis Date: **5/15/2024 11:27:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5010	30.0	5000	0	100	90	110			
Antimony, Total	202	2.50	200.0	0	101	90	110			
Arsenic, Total	196	5.00	200.0	0	97.8	90	110			
Barium, Total	197	10.0	200.0	0	98.5	90	110			
Beryllium, Total	188	1.00	200.0	0	94.0	90	110			
Cadmium, Total	198	1.00	200.0	0	98.8	90	110			
Chromium, Total	198	5.00	200.0	0	98.9	90	110			
Copper, Total	199	10.0	200.0	0	99.7	90	110			
Lead, Total	195	1.00	200.0	0	97.3	90	110			
Manganese	198	2.00	200.0	0	99.1	90	110			
Molybdenum	195	5.00	200.0	0	97.7	90	110			
Nickel, Total	201	10.0	200.0	0	101	90	110			
Selenium, Total	202	5.00	200.0	0	101	90	110			
Silver, Total	203	2.00	200.0	0	102	90	110			
Thallium, Total	192	1.50	200.0	0	96.2	90	110			
Zinc, Total	197	5.00	200.0	0	98.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS5_240515B

Sample ID: **CCV3-240515** Batch ID: **R133057** TestNo: **E200.8** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS5_240515B** Analysis Date: **5/15/2024 1:17:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aluminum, Total	5040	30.0	5000	0	101	90	110			
Antimony, Total	201	2.50	200.0	0	101	90	110			
Arsenic, Total	199	5.00	200.0	0	99.3	90	110			
Barium, Total	198	10.0	200.0	0	99.0	90	110			
Beryllium, Total	186	1.00	200.0	0	92.9	90	110			
Cadmium, Total	198	1.00	200.0	0	98.9	90	110			
Chromium, Total	197	5.00	200.0	0	98.5	90	110			
Copper, Total	200	10.0	200.0	0	100	90	110			
Lead, Total	196	1.00	200.0	0	98.1	90	110			
Manganese	199	2.00	200.0	0	99.7	90	110			
Molybdenum	199	5.00	200.0	0	99.6	90	110			
Nickel, Total	203	10.0	200.0	0	101	90	110			
Selenium, Total	205	5.00	200.0	0	103	90	110			
Silver, Total	204	2.00	200.0	0	102	90	110			
Thallium, Total	194	1.50	200.0	0	96.9	90	110			
Zinc, Total	201	5.00	200.0	0	101	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513A

The QC data in batch 115352 applies to the following samples: 2405086-05E, 2405086-05F, 2405086-06E, 2405086-06F

Sample ID: **LCS-115352** Batch ID: **115352** TestNo: **E625.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS10_240513A** Analysis Date: **5/13/2024 10:40:00 AM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4-DDD	0.409	0.0200	0.4000	0	102	0.1	135			
4,4-DDE	0.339	0.0200	0.4000	0	84.7	19	120			
4,4-DDT	0.384	0.0200	0.4000	0	95.9	0.1	171			
Aldrin	0.257	0.0100	0.4000	0	64.1	7	152			
alpha-BHC	0.348	0.0200	0.4000	0	86.9	42	108			
alpha-Endosulfan	0.392	0.0100	0.4000	0	97.9	47	128			
beta-BHC	0.367	0.0200	0.4000	0	91.6	42	131			
beta-Endosulfan	0.392	0.0200	0.4000	0	98.0	52	125			
Carbaryl	0.441	0.0300	0.4000	0	110	38	168			N
Chloropyrifos	0.460	0.0300	0.4000	0	115	42	131			N
delta-BHC	0.368	0.0200	0.4000	0	91.9	0.1	120			
Diazinon	0.471	0.0300	0.4000	0	118	52	120			N
Dieldrin	0.380	0.0200	0.4000	0	95.1	44	119			
Endosulfan sulfate	0.417	0.0200	0.4000	0	104	0.1	120			
Endrin	0.443	0.0200	0.4000	0	111	50	151			
Endrin aldehyde	0.336	0.0200	0.4000	0	84.0	0.1	189			
gamma-BHC	0.357	0.0200	0.4000	0	89.2	41	111			
Guthion	0.495	0.0300	0.4000	0	124	44	193			N
Heptachlor	0.288	0.0100	0.4000	0	72.1	0.1	172			
Heptachlor epoxide	0.413	0.0100	0.4000	0	103	71	120			
Malathion	0.530	0.0300	0.4000	0	133	56	161			N
Methoxychlor	0.431	0.0200	0.4000	0	108	38	156			N
Mirex	0.317	0.0200	0.4000	0	79.3	27	131			N
Parathion	0.459	0.0300	0.4000	0	115	13	184			N
Demeton	0.403	0.0300	0.4000	0	101	28	154			N
Surr: 2-Fluorobiphenyl	2.84		4.000		71.0	43	116			
Surr: 4-Terphenyl-d14	3.79		4.000		94.7	33	141			

Sample ID: **LCSD-115352** Batch ID: **115352** TestNo: **E625.1** Units: **µg/L**
SampType: **LCSD** Run ID: **GCMS10_240513A** Analysis Date: **5/13/2024 11:12:00 AM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4-DDD	0.406	0.0200	0.4000	0	102	0.1	135	0.706	50	
4,4-DDE	0.320	0.0200	0.4000	0	80.0	19	120	5.73	50	
4,4-DDT	0.406	0.0200	0.4000	0	102	0.1	171	5.70	50	
Aldrin	0.203	0.0100	0.4000	0	50.9	7	152	23.1	50	
alpha-BHC	0.330	0.0200	0.4000	0	82.5	42	108	5.24	50	
alpha-Endosulfan	0.363	0.0100	0.4000	0	90.8	47	128	7.59	50	
beta-BHC	0.355	0.0200	0.4000	0	88.8	42	131	3.10	50	
beta-Endosulfan	0.384	0.0200	0.4000	0	96.0	52	125	2.07	50	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513A

Sample ID: **LCSD-115352**	Batch ID: **115352**	TestNo: **E625.1**	Units: **µg/L**
SampType: **LCSD**	Run ID: **GCMS10_240513A**	Analysis Date: **5/13/2024 11:12:00 AM**	Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Carbaryl	0.445	0.0300	0.4000	0	111	38	168	1.02	50	N
Chloropyrifos	0.481	0.0300	0.4000	0	120	42	131	4.49	50	N
delta-BHC	0.354	0.0200	0.4000	0	88.6	0.1	120	3.67	50	
Diazinon	0.449	0.0300	0.4000	0	112	52	120	4.92	50	N
Dieldrin	0.372	0.0200	0.4000	0	93.0	44	119	2.21	50	
Endosulfan sulfate	0.428	0.0200	0.4000	0	107	0.1	120	2.69	50	
Endrin	0.431	0.0200	0.4000	0	108	50	151	2.78	50	
Endrin aldehyde	0.317	0.0200	0.4000	0	79.2	0.1	189	5.86	50	
gamma-BHC	0.344	0.0200	0.4000	0	85.9	41	111	3.78	50	
Guthion	0.509	0.0300	0.4000	0	127	44	193	2.78	50	N
Heptachlor	0.238	0.0100	0.4000	0	59.4	0.1	172	19.3	50	
Heptachlor epoxide	0.407	0.0100	0.4000	0	102	71	120	1.57	50	
Malathion	0.554	0.0300	0.4000	0	138	56	161	4.30	50	N
Methoxychlor	0.434	0.0200	0.4000	0	109	38	156	0.768	50	N
Mirex	0.317	0.0200	0.4000	0	79.3	27	131	0.012	50	N
Parathion	0.436	0.0300	0.4000	0	109	13	184	5.10	50	N
Demeton	0.417	0.0300	0.4000	0	104	28	154	3.46	50	N
Surr: 2-Fluorobiphenyl	2.66		4.000		66.4	43	116	0	0	
Surr: 4-Terphenyl-d14	3.67		4.000		91.8	33	141	0	0	

Sample ID: **MB-115352**	Batch ID: **115352**	TestNo: **E625.1**	Units: **µg/L**
SampType: **MBLK**	Run ID: **GCMS10_240513A**	Analysis Date: **5/13/2024 1:04:00 PM**	Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4-DDD	<0.0200	0.0200								
4,4-DDE	<0.0200	0.0200								
4,4-DDT	<0.0200	0.0200								
Aldrin	<0.0100	0.0100								
alpha-BHC	<0.0100	0.0200								
alpha-Endosulfan	<0.0100	0.0100								
beta-BHC	<0.0100	0.0200								
beta-Endosulfan	<0.0100	0.0200								
Carbaryl	<0.0100	0.0300								N
Chlordane	<0.0600	0.200								N
Chloropyrifos	<0.0100	0.0300								N
delta-BHC	<0.0100	0.0200								
Diazinon	<0.0100	0.0300								N
Dieldrin	<0.0100	0.0200								
Endosulfan sulfate	<0.0100	0.0200								
Endrin	<0.0100	0.0200								
Endrin aldehyde	<0.0100	0.0200								

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513A

Sample ID: **MB-115352** Batch ID: **115352** TestNo: **E625.1** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS10_240513A** Analysis Date: **5/13/2024 1:04:00 PM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
gamma-BHC	<0.0100	0.0200								
Guthion	<0.0100	0.0300								N
Heptachlor	<0.0100	0.0100								
Heptachlor epoxide	<0.0100	0.0100								
Malathion	<0.0100	0.0300								N
Methoxychlor	<0.0200	0.0200								N
Mirex	<0.0100	0.0200								N
Parathion	<0.0100	0.0300								N
Toxaphene	<0.300	0.300								
Demeton	<0.0100	0.0300								N
Surr: 2-Fluorobiphenyl	2.86		4.000		71.5	43	116			
Surr: 4-Terphenyl-d14	4.00		4.000		100	33	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513A

Sample ID: **ICV-240513**	Batch ID: **R133015**	TestNo: **E625.1**	Units: **µg/L**
SampType: **ICV**	Run ID: **GCMS10_240513A**	Analysis Date: **5/13/2024 10:13:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4,4-DDD	219	0.0200	200.0	0	109	0.1	135			
4,4-DDE	201	0.0200	200.0	0	100	19	130			
4,4-DDT	223	0.0200	200.0	0	112	60	171			
Aldrin	193	0.0100	200.0	0	96.7	7	152			
alpha-BHC	194	0.0200	200.0	0	96.9	60	140			
alpha-Endosulfan	194	0.0100	200.0	0	97.1	60	140			
beta-BHC	195	0.0200	200.0	0	97.4	42	131			
beta-Endosulfan	199	0.0200	200.0	0	99.6	60	140			
Carbaryl	202	0.0300	200.0	0	101	60	140			N
Chloropyrifos	240	0.0300	200.0	0	120	60	140			N
delta-BHC	185	0.0200	200.0	0	92.6	0.1	130			
Diazinon	231	0.0300	200.0	0	115	60	140			N
Dieldrin	196	0.0200	200.0	0	98.2	70	130			
Endosulfan sulfate	209	0.0200	200.0	0	105	0.1	130			
Endrin	220	0.0200	200.0	0	110	60	140			
Endrin aldehyde	182	0.0200	200.0	0	90.9	0.1	189			
gamma-BHC	190	0.0200	200.0	0	95.0	60	140			
Guthion	207	0.0300	200.0	0	104	60	140			N
Heptachlor	203	0.0100	200.0	0	101	0.1	172			
Heptachlor epoxide	212	0.0100	200.0	0	106	70	130			
Malathion	220	0.0300	200.0	0	110	60	140			N
Methoxychlor	217	0.0200	200.0	0	108	60	140			N
Mirex	186	0.0200	200.0	0	93.2	60	140			N
Parathion	219	0.0300	200.0	0	109	60	140			N
Demeton	212	0.0300	200.0	0	106	60	140			N
Surr: 2-Fluorobiphenyl	758		800.0		94.8	60	140			
Surr: 4-Terphenyl-d14	808		800.0		101	60	140			

Sample ID: **ICV-240513 CT**	Batch ID: **R133015**	TestNo: **E625.1**	Units: **µg/L**
SampType: **ICV**	Run ID: **GCMS10_240513A**	Analysis Date: **5/13/2024 11:40:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlordane	2610	0.200	2500	0	104	60	140			N
Toxaphene	2510	0.300	2500	0	100	60	140			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513B

The QC data in batch 115352 applies to the following samples: 2405086-05E, 2405086-05F, 2405086-06E, 2405086-06F

Sample ID: **LCS-115352-DICO** Batch ID: **115352** TestNo: **D5812-96mod** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS10_240513B** Analysis Date: **5/13/2024 12:36:00 PM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	1.16	0.400	1.000	0	116	22	180			N

Sample ID: **MB-115352** Batch ID: **115352** TestNo: **D5812-96mod** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS10_240513B** Analysis Date: **5/13/2024 1:04:00 PM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	<0.200	0.400								N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS10_240513B

Sample ID: **ICV-240513 DICO** Batch ID: **R133044** TestNo: **D5812-96mod** Units: **µg/L**
SampType: **ICV** Run ID: **GCMS10_240513B** Analysis Date: **5/13/2024 12:08:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dicofol	222	0.400	250.0	0	88.7	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

The QC data in batch 115369 applies to the following samples: 2405086-05D, 2405086-06D

Sample ID: **LCS-115369** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 10:38:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	45.0	50.0	40.00	0	112	5	125			
Benzo(a)anthracene	40.1	5.00	40.00	0	100	33	143			
Benzo(a)pyrene	45.8	5.00	40.00	0	115	17	163			
Chrysene	38.5	5.00	40.00	0	96.3	17	168			
2,4-Dimethylphenol	39.9	10.0	40.00	0	99.8	32	120			
4,6-Dinitro-o-cresol	43.3	10.0	40.00	0	108	10	181			
m,p-Cresols	29.8	10.0	40.00	0	74.6	10	125			
o-Cresols	31.1	10.0	40.00	0	77.6	25	125			
p-Chloro-m-Cresol	38.6	10.0	40.00	0	96.6	22	147			
Hexachlorobenzene	32.3	5.00	40.00	0	80.7	10	152			
Hexachlorobutadiene	30.7	10.0	40.00	0	76.8	24	120			
Hexachloroethane	31.2	20.0	40.00	0	77.9	40	120			
Nitrobenzene	38.5	10.0	40.00	0	96.3	35	180			
N-Nitrosodiethylamine	31.3	20.0	40.00	0	78.2	20	125			
N-Nitro-di-n-Butylamine	33.5	20.0	40.00	0	83.7	20	125			
Pentachlorobenzene	32.0	20.0	40.00	0	80.1	40	140			
Pentachlorophenol	37.4	5.00	40.00	0	93.5	14	176			
Phenanthrene	36.3	10.0	40.00	0	90.8	54	120			
Pyridine	18.4	20.0	40.00	0	46.1	10	75			
1,2,4,5-Tetrachlorobenzene	30.8	20.0	40.00	0	77.0	30	140			
2,4,5-Trichlorophenol	47.1	10.0	40.00	0	118	25	125			
2-Chlorophenol	35.2	10.0	40.00	0	88.0	23	134			
2,4-Dichlorophenol	39.8	10.0	40.00	0	99.5	39	135			
2,4-Dinitrophenol	43.3	50.0	40.00	0	108	10	191			
2-Nitrophenol	38.6	10.0	40.00	0	96.6	29	182			
4-Nitrophenol	40.5	50.0	40.00	0	101	10	132			
Phenol	21.0	10.0	40.00	0	52.6	5	120			
2,4,6-Trichlorophenol	46.0	10.0	40.00	0	115	37	144			
3,4-Benzofluoranthene	41.1	10.0	40.00	0	103	24	159			
Acenaphthene	35.1	10.0	40.00	0	87.7	47	145			
Acenaphthylene	36.7	10.0	40.00	0	91.8	33	145			
Anthracene	34.9	10.0	40.00	0	87.2	27	133			
Benzo(ghi)perylene	42.2	20.0	40.00	0	106	10	219			
Benzo(k)Fluoranthene	37.5	5.00	40.00	0	93.9	11	162			
Bis(2-chloroethoxy)methane	35.3	10.0	40.00	0	88.2	33	184			
Bis(2-chloroethyl)ether	35.6	10.0	40.00	0	89.0	12	158			
Bis(2-chloroisopropyl)ether	37.9	10.0	40.00	0	94.8	36	166			
Bis(2-ethylhexyl)phthalate	46.5	10.0	40.00	0	116	10	158			
4-Bromophenyl phenyl ether	34.2	10.0	40.00	0	85.5	53	127			
Butylbenzyl Phthalate	44.5	10.0	40.00	0	111	10	152			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **LCS-115369** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 10:38:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Chloronaphthalene	36.5	10.0	40.00	0	91.2	60	120			
4-Chlorophenyl phenyl ether	36.8	10.0	40.00	0	92.0	25	158			
Dibenzo(a,h)Anthracene	44.1	5.00	40.00	0	110	10	125			
3,3-Dichlorobenzidine	42.9	5.00	40.00	0	107	10	262			
Diethyl phthalate	40.4	10.0	40.00	0	101	10	120			
Dimethyl phthalate	38.0	10.0	40.00	0	95.0	10	120			
Di-n-butyl phthalate	38.1	10.0	40.00	0	95.4	10	120			
2,4-Dinitrotoluene	42.4	10.0	40.00	0	106	39	139			
2,6-Dinitrotoluene	44.1	10.0	40.00	0	110	50	158			
Di-n-octyl phthalate	45.7	10.0	40.00	0	114	10	146			
1,2-Diphenyl Hydrazine	35.2	20.0	40.00	0	88.0	40	140			
Fluoranthene	33.2	10.0	40.00	0	83.0	26	137			
Fluorene	37.5	10.0	40.00	0	93.8	59	121			
Hexachloro-cyclopentadiene	45.0	10.0	40.00	0	113	8	130			
Indeno(1,2,3-cd)pyrene	43.7	5.00	40.00	0	109	10	171			
Isophorone	37.3	10.0	40.00	0	93.2	21	196			
Naphthalene	33.1	10.0	40.00	0	82.7	21	133			
N-Nitrosodimethylamine	16.3	20.0	40.00	0	40.7	10	125			
N-Nitrosodi-n-propylamine	33.2	20.0	40.00	0	83.0	10	230			
N-Nitrosodiphenylamine	36.8	20.0	40.00	0	92.1	20	125			
Pyrene	43.7	10.0	40.00	0	109	52	120			
1,2,4-Trichlorobenzene	32.3	10.0	40.00	0	80.8	44	142			
Phenol, Total	21.0	10.0	40.00	0	52.6	5	120			
Cresols	60.9	10.0	80.00	0	76.1	10	125			
Surr: 2,4,6-Tribromophenol	76.6		80.00		95.8	10	123			
Surr: 2-Fluorobiphenyl	76.2		80.00		95.2	43	116			
Surr: 2-Fluorophenol	53.6		80.00		67.0	21	100			
Surr: 4-Terphenyl-d14	92.8		80.00		116	33	141			
Surr: Nitrobenzene-d5	80.0		80.00		100	35	115			
Surr: Phenol-d5	36.6		80.00		45.8	10	94			

Sample ID: **2405093-01CMS** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MS** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 11:03:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	296	487	389.9	0	76.1	5	125			
Benzo(a)anthracene	363	48.7	389.9	0	93.0	33	143			
Benzo(a)pyrene	415	48.7	389.9	0	107	17	163			
Chrysene	351	48.7	389.9	0	90.0	17	168			
2,4-Dimethylphenol	453	97.5	389.9	56.23	102	32	120			
4,6-Dinitro-o-cresol	323	97.5	389.9	0	82.8	10	181			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **2405093-01CMS** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MS** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 11:03:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
m,p-Cresols	326	97.5	389.9	0	83.7	10	125			
o-Cresols	335	97.5	389.9	0	86.0	25	125			
p-Chloro-m-Cresol	2530	97.5	389.9	0	650	22	147			S
Hexachlorobenzene	289	48.7	389.9	0	74.1	10	152			
Hexachlorobutadiene	284	97.5	389.9	0	72.9	24	120			
Hexachloroethane	277	195	389.9	0	71.0	40	120			
Nitrobenzene	353	97.5	389.9	0	90.6	35	180			
N-Nitrosodiethylamine	302	195	389.9	0	77.6	20	125			
N-Nitro-di-n-Butylamine	306	195	389.9	0	78.6	20	125			
Pentachlorobenzene	283	195	389.9	0	72.7	40	140			
Pentachlorophenol	333	48.7	389.9	0	85.4	14	176			
Phenanthrene	327	97.5	389.9	0	84.0	54	120			
Pyridine	262	195	389.9	0	67.2	10	75			
1,2,4,5-Tetrachlorobenzene	280	195	389.9	0	71.8	30	140			
2,4,5-Trichlorophenol	426	97.5	389.9	0	109	25	125			
2-Chlorophenol	348	97.5	389.9	0	89.2	23	134			
2,4-Dichlorophenol	374	97.5	389.9	0	96.0	39	135			
2,4-Dinitrophenol	354	487	389.9	0	90.8	10	191			
2-Nitrophenol	362	97.5	389.9	0	92.8	29	182			
4-Nitrophenol	438	487	389.9	0	112	10	132			
Phenol	371	97.5	389.9	23.54	89.1	5	120			
2,4,6-Trichlorophenol	403	97.5	389.9	0	103	37	144			
3,4-Benzofluoranthene	388	97.5	389.9	0	99.6	24	159			
Acenaphthene	322	97.5	389.9	0	82.6	47	145			
Acenaphthylene	329	97.5	389.9	0	84.5	33	145			
Anthracene	314	97.5	389.9	0	80.5	27	133			
Benzo(ghi)perylene	388	195	389.9	0	99.6	10	219			
Benzo(k)Fluoranthene	322	48.7	389.9	0	82.6	11	162			
Bis(2-chloroethoxy)methane	319	97.5	389.9	0	81.8	33	184			
Bis(2-chloroethyl)ether	321	97.5	389.9	0	82.5	12	158			
Bis(2-chloroisopropyl)ether	339	97.5	389.9	0	87.0	36	166			
Bis(2-ethylhexyl)phthalate	420	97.5	389.9	0	108	10	158			
4-Bromophenyl phenyl ether	297	97.5	389.9	0	76.3	53	127			
Butylbenzyl Phthalate	406	97.5	389.9	0	104	10	152			
2-Chloronaphthalene	326	97.5	389.9	0	83.6	60	120			
4-Chlorophenyl phenyl ether	337	97.5	389.9	0	86.4	25	158			
Dibenzo(a,h)Anthracene	404	48.7	389.9	0	104	10	125			
3,3-Dichlorobenzidine	343	48.7	389.9	0	88.1	10	262			
Diethyl phthalate	372	97.5	389.9	0	95.5	10	120			
Dimethyl phthalate	350	97.5	389.9	0	89.7	10	120			
Di-n-butyl phthalate	352	97.5	389.9	0	90.3	10	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **2405093-01CMS**	Batch ID: **115369**	TestNo: **E625.1**	Units: **µg/L**
SampType: **MS**	Run ID: **GCMS4_240514C**	Analysis Date: **5/14/2024 11:03:00 AM**	Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	395	97.5	389.9	0	101	39	139			
2,6-Dinitrotoluene	406	97.5	389.9	0	104	50	158			
Di-n-octyl phthalate	430	97.5	389.9	0	110	10	146			
1,2-Diphenyl Hydrazine	310	195	389.9	0	79.4	40	140			
Fluoranthene	304	97.5	389.9	0	78.0	26	137			
Fluorene	345	97.5	389.9	0	88.6	59	121			
Hexachloro-cyclopentadiene	402	97.5	389.9	0	103	8	130			
Indeno(1,2,3-cd)pyrene	399	48.7	389.9	0	102	10	171			
Isophorone	346	97.5	389.9	0	88.8	21	196			
Naphthalene	299	97.5	389.9	0	76.8	21	133			
N-Nitrosodimethylamine	287	195	389.9	0	73.7	10	125			
N-Nitrosodi-n-propylamine	299	195	389.9	0	76.6	10	230			
N-Nitrosodiphenylamine	331	195	389.9	0	85.0	20	125			
Pyrene	399	97.5	389.9	0	102	52	120			
1,2,4-Trichlorobenzene	296	97.5	389.9	0	75.9	44	142			
Phenol, Total	371	97.5	389.9	23.54	89.1	5	120			
Cresols	662	97.5	779.7	0	84.9	10	125			
Surr: 2,4,6-Tribromophenol	616		779.7		79.0	10	123			
Surr: 2-Fluorobiphenyl	616		779.7		79.0	43	116			
Surr: 2-Fluorophenol	657		779.7		84.3	21	100			
Surr: 4-Terphenyl-d14	758		779.7		97.3	33	141			
Surr: Nitrobenzene-d5	680		779.7		87.3	35	115			
Surr: Phenol-d5	600		779.7		77.0	10	94			

Sample ID: **2405093-01CMSD**	Batch ID: **115369**	TestNo: **E625.1**	Units: **µg/L**
SampType: **MSD**	Run ID: **GCMS4_240514C**	Analysis Date: **5/14/2024 11:28:00 AM**	Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	253	407	325.7	0	77.7	5	125	15.8	50	
Benzo(a)anthracene	309	40.7	325.7	0	94.9	33	143	15.9	50	
Benzo(a)pyrene	358	40.7	325.7	0	110	17	163	14.9	50	
Chrysene	300	40.7	325.7	0	92.1	17	168	15.6	50	
2,4-Dimethylphenol	402	81.4	325.7	56.23	106	32	120	11.9	50	
4,6-Dinitro-o-cresol	288	81.4	325.7	0	88.4	10	181	11.5	50	
m,p-Cresols	279	81.4	325.7	0	85.8	10	125	15.5	50	
o-Cresols	284	81.4	325.7	0	87.2	25	125	16.5	50	
p-Chloro-m-Cresol	2540	81.4	325.7	0	779	22	147	0.190	50	S
Hexachlorobenzene	247	40.7	325.7	0	76.0	10	152	15.5	50	
Hexachlorobutadiene	224	81.4	325.7	0	68.8	24	120	23.6	50	
Hexachloroethane	217	163	325.7	0	66.6	40	120	24.2	50	
Nitrobenzene	301	81.4	325.7	0	92.5	35	180	15.9	50	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **2405093-01CMSD** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MSD** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 11:28:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
N-Nitrosodiethylamine	250	163	325.7	0	76.9	20	125	18.8	50	
N-Nitro-di-n-Butylamine	265	163	325.7	0	81.5	20	125	14.3	50	
Pentachlorobenzene	249	163	325.7	0	76.5	40	140	12.8	50	
Pentachlorophenol	284	40.7	325.7	0	87.2	14	176	15.9	50	
Phenanthrene	282	81.4	325.7	0	86.6	54	120	15.0	39	
Pyridine	228	163	325.7	0	70.0	10	75	13.8	50	
1,2,4,5-Tetrachlorobenzene	240	163	325.7	0	73.6	30	140	15.3	50	
2,4,5-Trichlorophenol	358	81.4	325.7	0	110	25	125	17.3	50	
2-Chlorophenol	293	81.4	325.7	0	89.9	23	134	17.1	50	
2,4-Dichlorophenol	326	81.4	325.7	0	100	39	135	13.8	50	
2,4-Dinitrophenol	306	407	325.7	0	94.0	10	191	14.5	50	
2-Nitrophenol	310	81.4	325.7	0	95.2	29	182	15.4	50	
4-Nitrophenol	343	407	325.7	0	105	10	132	24.4	50	
Phenol	315	81.4	325.7	23.54	89.4	5	120	16.4	50	
2,4,6-Trichlorophenol	342	81.4	325.7	0	105	37	144	16.4	50	
3,4-Benzofluoranthene	335	81.4	325.7	0	103	24	159	14.8	50	
Acenaphthene	268	81.4	325.7	0	82.4	47	145	18.3	48	
Acenaphthylene	277	81.4	325.7	0	85.2	33	145	17.2	50	
Anthracene	268	81.4	325.7	0	82.4	27	133	15.6	50	
Benzo(ghi)perylene	332	163	325.7	0	102	10	219	15.6	50	
Benzo(k)Fluoranthene	277	40.7	325.7	0	85.1	11	162	15.0	50	
Bis(2-chloroethoxy)methane	277	81.4	325.7	0	85.2	33	184	13.9	50	
Bis(2-chloroethyl)ether	275	81.4	325.7	0	84.4	12	158	15.6	50	
Bis(2-chloroisopropyl)ether	291	81.4	325.7	0	89.4	36	166	15.2	50	
Bis(2-ethylhexyl)phthalate	357	81.4	325.7	0	110	10	158	16.1	50	
4-Bromophenyl phenyl ether	262	81.4	325.7	0	80.6	53	127	12.5	43	
Butylbenzyl Phthalate	342	81.4	325.7	0	105	10	152	17.1	50	
2-Chloronaphthalene	274	81.4	325.7	0	84.0	60	120	17.4	24	
4-Chlorophenyl phenyl ether	283	81.4	325.7	0	86.9	25	158	17.5	50	
Dibenzo(a,h)Anthracene	343	40.7	325.7	0	105	10	125	16.4	50	
3,3-Dichlorobenzidine	282	40.7	325.7	0	86.5	10	262	19.7	50	
Diethyl phthalate	310	81.4	325.7	0	95.2	10	120	18.2	50	
Dimethyl phthalate	293	81.4	325.7	0	89.9	10	120	17.8	50	
Di-n-butyl phthalate	296	81.4	325.7	0	90.9	10	120	17.3	47	
2,4-Dinitrotoluene	329	81.4	325.7	0	101	39	139	18.2	42	
2,6-Dinitrotoluene	338	81.4	325.7	0	104	50	158	18.3	48	
Di-n-octyl phthalate	362	81.4	325.7	0	111	10	146	17.3	50	
1,2-Diphenyl Hydrazine	269	163	325.7	0	82.6	40	140	14.1	50	
Fluoranthene	257	81.4	325.7	0	78.8	26	137	16.8	50	
Fluorene	282	81.4	325.7	0	86.6	59	121	20.2	38	
Hexachloro-cyclopentadiene	325	81.4	325.7	0	99.9	8	130	21.0	50	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **2405093-01CMSD** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MSD** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 11:28:00 AM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Indeno(1,2,3-cd)pyrene	340	40.7	325.7	0	104	10	171	15.9	50	
Isophorone	293	81.4	325.7	0	90.1	21	196	16.4	50	
Naphthalene	253	81.4	325.7	0	77.7	21	133	16.7	50	
N-Nitrosodimethylamine	240	163	325.7	0	73.8	10	125	17.8	50	
N-Nitrosodi-n-propylamine	252	163	325.7	0	77.5	10	230	16.8	50	
N-Nitrosodiphenylamine	290	163	325.7	0	89.0	20	125	13.4	50	
Pyrene	332	81.4	325.7	0	102	52	120	18.5	49	
1,2,4-Trichlorobenzene	241	81.4	325.7	0	74.0	44	142	20.4	50	
Phenol, Total	315	81.4	325.7	23.54	89.4	5	120	16.4	50	
Cresols	564	81.4	651.5	0	86.5	10	125	16.0	50	
Surr: 2,4,6-Tribromophenol	537		651.5		82.5	10	123	0	0	
Surr: 2-Fluorobiphenyl	521		651.5		80.0	43	116	0	0	
Surr: 2-Fluorophenol	573		651.5		88.0	21	100	0	0	
Surr: 4-Terphenyl-d14	645		651.5		99.0	33	141	0	0	
Surr: Nitrobenzene-d5	586		651.5		90.0	35	115	0	0	
Surr: Phenol-d5	513		651.5		78.8	10	94	0	0	

Sample ID: **MB-115369** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 12:19:00 PM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	<5.00	50.0								
Benzo(a)anthracene	<2.00	5.00								
Benzo(a)pyrene	<2.00	5.00								
Chrysene	<2.00	5.00								
2,4-Dimethylphenol	<2.00	10.0								
4,6-Dinitro-o-cresol	<2.00	10.0								
m,p-Cresols	<2.00	10.0								
o-Cresols	<2.00	10.0								
p-Chloro-m-Cresol	<2.00	10.0								
Hexachlorobenzene	<2.00	5.00								
Hexachlorobutadiene	<2.00	10.0								
Hexachloroethane	<2.00	20.0								
Nitrobenzene	<2.00	10.0								
N-Nitrosodiethylamine	<2.00	20.0								
N-Nitro-di-n-Butylamine	<2.00	20.0								
Pentachlorobenzene	<2.00	20.0								
Pentachlorophenol	<2.00	5.00								
Phenanthrene	<2.00	10.0								
Pyridine	<4.00	20.0								
1,2,4,5-Tetrachlorobenzene	<2.00	20.0								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **MB-115369** Batch ID: **115369** TestNo: **E625.1** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 12:19:00 PM** Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	<2.00	10.0								
2-Chlorophenol	<2.00	10.0								
2,4-Dichlorophenol	<2.00	10.0								
2,4-Dinitrophenol	<2.00	50.0								
2-Nitrophenol	<2.00	10.0								
4-Nitrophenol	<2.00	50.0								
Phenol	<2.00	10.0								
2,4,6-Trichlorophenol	<2.00	10.0								
3,4-Benzofluoranthene	<2.00	10.0								
Acenaphthene	<2.00	10.0								
Acenaphthylene	<2.00	10.0								
Anthracene	<2.00	10.0								
Benzo(ghi)perylene	<2.00	20.0								
Benzo(k)Fluoranthene	<2.00	5.00								
Bis(2-chloroethoxy)methane	<2.00	10.0								
Bis(2-chloroethyl)ether	<2.00	10.0								
Bis(2-chloroisopropyl)ether	<2.00	10.0								
Bis(2-ethylhexyl)phthalate	<2.00	10.0								
4-Bromophenyl phenyl ether	<2.00	10.0								
Butylbenzyl Phthalate	<4.00	10.0								
2-Chloronaphthalene	<2.00	10.0								
4-Chlorophenyl phenyl ether	<2.00	10.0								
Dibenzo(a,h)Anthracene	<2.00	5.00								
3,3-Dichlorobenzidine	<2.00	5.00								
Diethyl phthalate	<4.00	10.0								
Dimethyl phthalate	<4.00	10.0								
Di-n-butyl phthalate	<4.00	10.0								
2,4-Dinitrotoluene	<2.00	10.0								
2,6-Dinitrotoluene	<2.00	10.0								
Di-n-octyl phthalate	<4.00	10.0								
1,2-Diphenyl Hydrazine	<2.00	20.0								
Fluoranthene	<2.00	10.0								
Fluorene	<2.00	10.0								
Hexachloro-cyclopentadiene	<2.00	10.0								
Indeno(1,2,3-cd)pyrene	<2.00	5.00								
Isophorone	<2.00	10.0								
Naphthalene	<2.00	10.0								
N-Nitrosodimethylamine	<2.00	20.0								
N-Nitrosodi-n-propylamine	<2.00	20.0								
N-Nitrosodiphenylamine	<2.00	20.0								
Pyrene	<2.00	10.0								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **MB-115369**	Batch ID: **115369**	TestNo: **E625.1**		Units:	**µg/L**
SampType: **MBLK**	Run ID: **GCMS4_240514C**	Analysis Date: **5/14/2024 12:19:00 PM**		Prep Date:	**5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	<2.00	10.0								
Phenol, Total	<2.00	10.0								
Cresols	<2.00	10.0								
Surr: 2,4,6-Tribromophenol	72.4		80.00		90.5	10	123			
Surr: 2-Fluorobiphenyl	74.0		80.00		92.5	43	116			
Surr: 2-Fluorophenol	44.2		80.00		55.2	21	100			
Surr: 4-Terphenyl-d14	83.6		80.00		104	33	141			
Surr: Nitrobenzene-d5	77.4		80.00		96.8	35	115			
Surr: Phenol-d5	27.2		80.00		34.0	10	94			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **ICV-240514** Batch ID: **R133035** TestNo: **E625.1** Units: **µg/L**
SampType: **ICV** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 10:14:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzidine	2800	50.0	2500	0	112	60	130			
Benzo(a)anthracene	2380	5.00	2500	0	95.3	70	130			
Benzo(a)pyrene	2520	5.00	2500	0	101	70	130			
Chrysene	2280	5.00	2500	0	91.2	70	130			
2,4-Dimethylphenol	2100	10.0	2500	0	83.8	70	130			
4,6-Dinitro-o-cresol	2340	10.0	2500	0	93.8	70	130			
m,p-Cresols	2090	10.0	2500	0	83.7	70	130			
o-Cresols	2070	10.0	2500	0	82.9	70	130			
p-Chloro-m-Cresol	2130	10.0	2500	0	85.1	70	130			
Hexachlorobenzene	1980	5.00	2500	0	79.2	70	130			
Hexachlorobutadiene	2410	10.0	2500	0	96.4	70	130			
Hexachloroethane	2270	20.0	2500	0	90.8	70	130			
Nitrobenzene	2460	10.0	2500	0	98.4	70	130			
N-Nitrosodiethylamine	2210	20.0	2500	0	88.3	70	130			
N-Nitro-di-n-Butylamine	2040	20.0	2500	0	81.8	70	130			
Pentachlorobenzene	2120	20.0	2500	0	85.0	70	130			
Pentachlorophenol	2000	5.00	2500	0	79.8	70	130			
Phenanthrene	2130	10.0	2500	0	85.2	70	130			
Pyridine	2270	20.0	2500	0	90.9	70	130			
1,2,4,5-Tetrachlorobenzene	2080	20.0	2500	0	83.1	70	130			
2,4,5-Trichlorophenol	2490	10.0	2500	0	99.6	70	130			
2-Chlorophenol	2240	10.0	2500	0	89.6	70	130			
2,4-Dichlorophenol	2270	10.0	2500	0	90.7	70	130			
2,4-Dinitrophenol	2580	50.0	2500	0	103	70	130			
2-Nitrophenol	2380	10.0	2500	0	95.4	70	130			
4-Nitrophenol	2760	50.0	2500	0	110	70	130			
Phenol	2320	10.0	2500	0	93.0	70	130			
2,4,6-Trichlorophenol	2520	10.0	2500	0	101	70	130			
3,4-Benzofluoranthene	2550	10.0	2500	0	102	70	130			
Acenaphthene	2190	10.0	2500	0	87.4	70	130			
Acenaphthylene	2350	10.0	2500	0	94.0	70	130			
Anthracene	2000	10.0	2500	0	80.1	70	130			
Benzo(ghi)perylene	2440	20.0	2500	0	97.7	70	130			
Benzo(k)Fluoranthene	2130	5.00	2500	0	85.1	70	130			
Bis(2-chloroethoxy)methane	2200	10.0	2500	0	88.2	70	130			
Bis(2-chloroethyl)ether	2280	10.0	2500	0	91.4	70	130			
Bis(2-chloroisopropyl)ether	2480	10.0	2500	0	99.0	70	130			
Bis(2-ethylhexyl)phthalate	2640	10.0	2500	0	106	70	130			
4-Bromophenyl phenyl ether	2030	10.0	2500	0	81.1	70	130			
Butylbenzyl Phthalate	2600	10.0	2500	0	104	70	130			
2-Chloronaphthalene	2300	10.0	2500	0	92.0	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_240514C

Sample ID: **ICV-240514** Batch ID: **R133035** TestNo: **E625.1** Units: **µg/L**
SampType: **ICV** Run ID: **GCMS4_240514C** Analysis Date: **5/14/2024 10:14:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
4-Chlorophenyl phenyl ether	2210	10.0	2500	0	88.2	70	130			
Dibenzo(a,h)Anthracene	2590	5.00	2500	0	104	70	130			
3,3-Dichlorobenzidine	2760	5.00	2500	0	110	70	130			
Diethyl phthalate	2230	10.0	2500	0	89.0	70	130			
Dimethyl phthalate	2220	10.0	2500	0	88.6	70	130			
Di-n-butyl phthalate	2150	10.0	2500	0	86.1	70	130			
2,4-Dinitrotoluene	2380	10.0	2500	0	95.0	70	130			
2,6-Dinitrotoluene	2590	10.0	2500	0	104	70	130			
Di-n-octyl phthalate	2530	10.0	2500	0	101	70	130			
1,2-Diphenyl Hydrazine	2110	20.0	2500	0	84.5	70	130			
Fluoranthene	1920	10.0	2500	0	77.0	70	130			
Fluorene	2210	10.0	2500	0	88.2	70	130			
Hexachloro-cyclopentadiene	2580	10.0	2500	0	103	70	130			
Indeno(1,2,3-cd)pyrene	2600	5.00	2500	0	104	70	130			
Isophorone	2390	10.0	2500	0	95.8	70	130			
Naphthalene	2170	10.0	2500	0	87.0	70	130			
N-Nitrosodimethylamine	2260	20.0	2500	0	90.4	70	130			
N-Nitrosodi-n-propylamine	2150	20.0	2500	0	86.0	70	130			
N-Nitrosodiphenylamine	2110	20.0	2500	0	84.2	70	130			
Pyrene	2560	10.0	2500	0	102	70	130			
1,2,4-Trichlorobenzene	2280	10.0	2500	0	91.2	70	130			
Phenol, Total	2320	10.0	2500	0	93.0	70	130			
Cresols	4170	10.0	5000	0	83.3	70	130			
Surr: 2,4,6-Tribromophenol	2220		2500		88.8	70	130			
Surr: 2-Fluorobiphenyl	2450		2500		98.0	70	130			
Surr: 2-Fluorophenol	2310		2500		92.4	70	130			
Surr: 4-Terphenyl-d14	2600		2500		104	70	130			
Surr: Nitrobenzene-d5	2550		2500		102	70	130			
Surr: Phenol-d5	2220		2500		88.8	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_240513A

The QC data in batch 115352 applies to the following samples: 2405086-05E, 2405086-05F, 2405086-06E, 2405086-06F

Sample ID: **LCS-115352-PCB** Batch ID: **115352** TestNo: **E625.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS8_240513A** Analysis Date: **5/13/2024 1:06:00 PM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	2.41	0.200	4.000	0	60.3	37	130			
Aroclor 1260	2.48	0.200	4.000	0	62.0	19	130			
Total PCBs	4.89	0.200	8.000	0	61.1	19	130			
Surr: 2-Fluorobiphenyl	2.27		4.000		56.8	43	116			
Surr: 4-Terphenyl-d14	2.89		4.000		72.4	33	141			

Sample ID: **MB-115352** Batch ID: **115352** TestNo: **E625.1** Units: **µg/L**
SampType: **MBLK** Run ID: **GCMS8_240513A** Analysis Date: **5/13/2024 1:36:00 PM** Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	<0.100	0.200								
Aroclor 1221	<0.100	0.200								
Aroclor 1232	<0.100	0.200								
Aroclor 1242	<0.100	0.200								
Aroclor 1248	<0.100	0.200								
Aroclor 1254	<0.100	0.200								
Aroclor 1260	<0.100	0.200								
Total PCBs	<0.100	0.200								
Surr: 2-Fluorobiphenyl	2.47		4.000		61.9	43	116			
Surr: 4-Terphenyl-d14	3.04		4.000		75.9	33	141			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_240513A

Sample ID: **ICV-240513**	Batch ID: **R133017**	TestNo: **E625.1**	Units: **µg/L**
SampType: **ICV**	Run ID: **GCMS8_240513A**	Analysis Date: **5/13/2024 12:20:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Aroclor 1016	1890	0.200	2000	0	94.7	70	130			
Aroclor 1260	1790	0.200	2000	0	89.4	19	130			
Total PCBs	3680	0.200	4000	0	92.0	70	130			
Surr: 2-Fluorobiphenyl	1740		2000		87.1	70	130			
Surr: 4-Terphenyl-d14	1710		2000		85.7	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS9_240514A**

The QC data in batch 115369 applies to the following samples: 2405086-05D, 2405086-06D

Sample ID: **MB-115369**	Batch ID: **115369**	TestNo: **D7065-17**	Units: **µg/L**
SampType: **MBLK**	Run ID: **GCMS9_240514A**	Analysis Date: **5/14/2024 10:14:00 AM**	Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nonylphenol	<70.0	100								N

Sample ID: **LCS-115369-NP**	Batch ID: **115369**	TestNo: **D7065-17**	Units: **µg/L**
SampType: **LCS**	Run ID: **GCMS9_240514A**	Analysis Date: **5/14/2024 10:58:00 AM**	Prep Date: **5/13/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nonylphenol	916	100	1000	0	91.6	40	140			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS9_240514A

Sample ID: **ICV-240514 NP** Batch ID: **R133032** TestNo: **D7065-17** Units: **µg/L**
SampType: **ICV** Run ID: **GCMS9_240514A** Analysis Date: **5/14/2024 9:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nonylphenol	93200	100	100000	0	93.2	75	125			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: WC_240510C

The QC data in batch 115351 applies to the following samples: 2405086-03C, 2405086-04C

Sample ID: **MB-115351**	Batch ID: **115351**	TestNo: **E1664A**	Units: **µg/L**
SampType: **MBLK**	Run ID: **WC_240510C**	Analysis Date: **5/10/2024 5:00:00 PM**	Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	1700	5000								

Sample ID: **LCS-115351**	Batch ID: **115351**	TestNo: **E1664A**	Units: **µg/L**
SampType: **LCS**	Run ID: **WC_240510C**	Analysis Date: **5/10/2024 5:00:00 PM**	Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	32200	5000	40000	0	80.5	78	114			

Sample ID: **LCSD-115351**	Batch ID: **115351**	TestNo: **E1664A**	Units: **µg/L**
SampType: **LCSD**	Run ID: **WC_240510C**	Analysis Date: **5/10/2024 5:00:00 PM**	Prep Date: **5/10/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Oil & Grease	32800	5000	40000	0	82.0	78	114	1.85	18	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS5_240509A**

The QC data in batch 115330 applies to the following samples: 2405086-03A, 2405086-04A

Sample ID: **LCS-115330** Batch ID: **115330** TestNo: **E624.1** Units: **µg/L**
SampType: **LCS** Run ID: **GCMS5_240509A** Analysis Date: **5/9/2024 10:19:00 AM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	24.6	10.0	23.20	0	106	65	135			
Carbon tetrachloride	21.2	2.00	23.20	0	91.6	70	130			
Chlorobenzene	23.9	10.0	23.20	0	103	35	135			
Chloroform	22.7	2.00	23.20	0	98.1	70	135			
Chlorodibromomethane	21.6	5.00	23.20	0	93.0	70	135			
1,2-Dibromoethane	21.8	2.00	23.20	0	94.0	60	140			
1,2-Dichloroethane	21.5	5.00	23.20	0	92.6	70	130			
1,1-Dichloroethylene	22.7	5.00	23.20	0	98.0	50	150			
Methyl ethyl ketone	119	50.0	116.0	0	103	60	140			
Tetrachloroethylene	23.5	10.0	23.20	0	101	70	130			
Trichloroethylene	22.1	5.00	23.20	0	95.2	65	135			
1,1,1-Trichloroethane	21.5	10.0	23.20	0	92.9	70	130			
TTHM (Total Trihalomethanes)	86.3	10.0	92.80	0	93.0	60	140			
Vinyl chloride	25.4	10.0	23.20	0	110	5	195			
Acrylonitrile	45.1	50.0	46.40	0	97.3	60	140			
1,1,2,2-Tetra-chloroethane	26.0	10.0	23.20	0	112	60	140			
Bromoform	20.0	10.0	23.20	0	86.3	65	135			
Chloroethane	24.9	10.0	23.20	0	107	40	160			
2-Chloroethylvinyl Ether	23.4	10.0	23.20	0	101	5	225			
Dichlorobromomethane	21.9	5.00	23.20	0	94.5	65	135			
1,1-Dichloroethane	24.6	10.0	23.20	0	106	70	130			
1,2-Dichloropropane	24.5	10.0	23.20	0	106	35	165			
1,3-Dichloropropylene	22.9	10.0	23.20	0	98.7	25	175			
Ethyl benzene	23.3	10.0	23.20	0	100	60	140			
Methyl bromide	14.7	20.0	23.20	0	63.6	15	185			
Methyl chloride	25.4	20.0	23.20	0	109	5	205			
Methylene chloride	24.5	5.00	23.20	0	106	60	140			
Toluene	23.7	10.0	23.20	0	102	70	130			
1,2-Trans-Dichloroethylene	22.9	2.00	23.20	0	98.9	70	130			
1,1,2-Trichloroethane	22.5	10.0	23.20	0	97.0	70	130			
1,2-Dichlorobenzene	24.0	5.00	23.20	0	104	65	135			
1,3-Dichlorobenzene	24.5	5.00	23.20	0	106	70	130			
1,4-Dichlorobenzene	24.5	5.00	23.20	0	106	65	135			
Surr: 1,2-Dichloroethane-d4	198		200.0		99.1	72	119			
Surr: 4-Bromofluorobenzene	205		200.0		103	76	119			
Surr: Dibromofluoromethane	191		200.0		95.3	85	115			
Surr: Toluene-d8	208		200.0		104	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240509A

Sample ID: **LCS-115330**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **LCS**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 10:45:00 AM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acrolein	73.6	50.0	58.00	0	127	60	140			
Surr: 1,2-Dichloroethane-d4	201		200.0		100	72	119			
Surr: 4-Bromofluorobenzene	215		200.0		107	76	119			
Surr: Dibromofluoromethane	192		200.0		96.2	85	115			
Surr: Toluene-d8	212		200.0		106	81	120			

Sample ID: **MB-115330**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **MBLK**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 11:11:00 AM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<1.00	10.0								
Carbon tetrachloride	<1.00	2.00								
Chlorobenzene	<1.00	10.0								
Chloroform	<1.00	2.00								
Chlorodibromomethane	<1.00	5.00								
1,2-Dibromoethane	<1.00	2.00								
1,2-Dichloroethane	<1.00	5.00								
1,1-Dichloroethylene	<1.00	5.00								
Methyl ethyl ketone	<15.0	50.0								
Tetrachloroethylene	<2.00	10.0								
Trichloroethylene	<1.00	5.00								
1,1,1-Trichloroethane	<1.00	10.0								
TTHM (Total Trihalomethanes)	<5.00	10.0								
Vinyl chloride	<1.00	10.0								
Acrolein	<5.00	50.0								
Acrylonitrile	<3.00	50.0								
1,1,2,2-Tetra-chloroethane	<1.00	10.0								
Bromoform	<1.00	10.0								
Chloroethane	<2.00	10.0								
2-Chloroethylvinyl Ether	<6.00	10.0								
Dichlorobromomethane	<1.00	5.00								
1,1-Dichloroethane	<1.00	10.0								
1,2-Dichloropropane	<1.00	10.0								
1,3-Dichloropropylene	<1.00	10.0								
Ethyl benzene	<1.00	10.0								
Methyl bromide	<5.00	20.0								
Methyl chloride	<1.00	20.0								
Methylene chloride	<2.50	5.00								
Toluene	<2.00	10.0								
1,2-Trans-Dichloroethylene	<1.00	2.00								
1,1,2-Trichloroethane	<1.00	10.0								

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240509A

Sample ID: **MB-115330**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **MBLK**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 11:11:00 AM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Dichlorobenzene	<1.00	5.00								
1,3-Dichlorobenzene	<1.00	5.00								
1,4-Dichlorobenzene	<1.00	5.00								
Surr: 1,2-Dichloroethane-d4	203		200.0		102	72	119			
Surr: 4-Bromofluorobenzene	215		200.0		108	76	119			
Surr: Dibromofluoromethane	195		200.0		97.7	85	115			
Surr: Toluene-d8	214		200.0		107	81	120			

Sample ID: **2405128-02AMS**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **MS**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 8:14:00 PM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23.9	10.0	23.20	0	103	37	151			
Carbon tetrachloride	20.8	2.00	23.20	0	89.7	70	140			
Chlorobenzene	22.8	10.0	23.20	0	98.2	37	160			
Chloroform	22.7	2.00	23.20	0	97.8	51	138			
Chlorodibromomethane	20.6	5.00	23.20	0	88.7	53	149			
1,2-Dibromoethane	21.2	2.00	23.20	0	91.2	40	160			
1,2-Dichloroethane	21.9	5.00	23.20	0	94.3	49	155			
1,1-Dichloroethylene	21.2	5.00	23.20	0	91.4	10	234			
Methyl ethyl ketone	109	50.0	116.0	0	94.4	40	160			
Tetrachloroethylene	21.5	10.0	23.20	0	92.6	64	148			
Trichloroethylene	21.0	5.00	23.20	0	90.5	70	157			
1,1,1-Trichloroethane	20.9	10.0	23.20	0	90.1	52	162			
TTHM (Total Trihalomethanes)	84.3	10.0	92.80	0	90.8	40	160			
Vinyl chloride	21.0	10.0	23.20	0	90.4	10	251			
Acrolein	56.1	50.0	58.00	0	96.7	40	160			
Acrylonitrile	43.4	50.0	46.40	0	93.6	40	160			
1,1,2,2-Tetra-chloroethane	26.1	10.0	23.20	0	112	46	157			
Bromoform	19.1	10.0	23.20	0	82.2	45	169			
Chloroethane	22.0	10.0	23.20	0	94.7	14	230			
Dichlorobromomethane	22.0	5.00	23.20	0	94.6	35	155			
1,1-Dichloroethane	24.0	10.0	23.20	0	103	59	155			
1,2-Dichloropropane	23.9	10.0	23.20	0	103	10	210			
1,3-Dichloropropylene	20.6	10.0	23.20	0	88.6	10	227			
Ethyl benzene	22.1	10.0	23.20	0	95.1	37	162			
Methyl bromide	11.0	20.0	23.20	0	47.5	10	242			
Methyl chloride	21.2	20.0	23.20	0	91.4	5	273			
Methylene chloride	24.3	5.00	23.20	0	105	10	221			
Toluene	22.7	10.0	23.20	0	97.7	47	150			
1,2-Trans-Dichloroethylene	21.7	2.00	23.20	0	93.7	54	156			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240509A

Sample ID: **2405128-02AMS**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **MS**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 8:14:00 PM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	22.7	10.0	23.20	0	97.7	52	150			
1,2-Dichlorobenzene	22.5	5.00	23.20	0	97.1	18	190			
1,3-Dichlorobenzene	23.0	5.00	23.20	0	99.0	59	156			
1,4-Dichlorobenzene	22.9	5.00	23.20	0	98.9	18	190			
Surr: 1,2-Dichloroethane-d4	206		200.0		103	72	119			
Surr: 4-Bromofluorobenzene	200		200.0		100	76	119			
Surr: Dibromofluoromethane	197		200.0		98.7	85	115			
Surr: Toluene-d8	202		200.0		101	81	120			

Sample ID: **2405128-02AMSD**	Batch ID: **115330**	TestNo: **E624.1**	Units: **µg/L**
SampType: **MSD**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 8:40:00 PM**	Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23.1	10.0	23.20	0	99.7	37	151	3.36	40	
Carbon tetrachloride	19.7	2.00	23.20	0	84.8	70	140	5.58	40	
Chlorobenzene	22.3	10.0	23.20	0	96.0	37	160	2.22	40	
Chloroform	21.6	2.00	23.20	0	93.3	51	138	4.70	40	
Chlorodibromomethane	19.9	5.00	23.20	0	85.8	53	149	3.36	40	
1,2-Dibromoethane	20.0	2.00	23.20	0	86.3	40	160	5.50	40	
1,2-Dichloroethane	20.8	5.00	23.20	0	89.6	49	155	5.10	40	
1,1-Dichloroethylene	20.7	5.00	23.20	0	89.3	10	234	2.31	32	
Methyl ethyl ketone	100	50.0	116.0	0	86.6	40	160	8.62	40	
Tetrachloroethylene	21.0	10.0	23.20	0	90.6	64	148	2.20	39	
Trichloroethylene	20.3	5.00	23.20	0	87.6	70	157	3.19	40	
1,1,1-Trichloroethane	20.1	10.0	23.20	0	86.8	52	162	3.70	36	
TTHM (Total Trihalomethanes)	80.8	10.0	92.80	0	87.0	40	160	4.27	40	
Vinyl chloride	20.5	10.0	23.20	0	88.3	10	251	2.28	40	
Acrolein	51.5	50.0	58.00	0	88.7	40	160	8.61	40	
Acrylonitrile	39.5	50.0	46.40	0	85.2	40	160	9.46	40	
1,1,2,2-Tetra-chloroethane	23.7	10.0	23.20	0	102	46	157	9.55	40	
Bromoform	18.0	10.0	23.20	0	77.7	45	169	5.59	40	
Chloroethane	20.9	10.0	23.20	0	90.0	14	230	5.10	40	
Dichlorobromomethane	21.2	5.00	23.20	0	91.3	35	155	3.55	40	
1,1-Dichloroethane	23.1	10.0	23.20	0	99.5	59	155	3.77	40	
1,2-Dichloropropane	23.0	10.0	23.20	0	99.0	10	210	3.82	40	
1,3-Dichloropropylene	20.0	10.0	23.20	0	86.2	10	227	2.84	40	
Ethyl benzene	21.3	10.0	23.20	0	91.9	37	162	3.47	40	
Methyl bromide	12.0	20.0	23.20	0	51.8	10	242	8.73	40	
Methyl chloride	21.1	20.0	23.20	0	91.0	5	273	0.449	40	
Methylene chloride	23.7	5.00	23.20	0	102	10	221	2.72	28	
Toluene	21.9	10.0	23.20	0	94.5	47	150	3.38	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240509A

Sample ID: **2405128-02AMSD** Batch ID: **115330** TestNo: **E624.1** Units: **µg/L**
SampType: **MSD** Run ID: **GCMS5_240509A** Analysis Date: **5/9/2024 8:40:00 PM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2-Trans-Dichloroethylene	21.0	2.00	23.20	0	90.6	54	156	3.32	40	
1,1,2-Trichloroethane	21.4	10.0	23.20	0	92.2	52	150	5.83	40	
1,2-Dichlorobenzene	22.1	5.00	23.20	0	95.1	18	190	2.14	40	
1,3-Dichlorobenzene	22.4	5.00	23.20	0	96.4	59	156	2.70	40	
1,4-Dichlorobenzene	22.3	5.00	23.20	0	96.2	18	190	2.74	40	
Surr: 1,2-Dichloroethane-d4	203		200.0		101	72	119	0	0	
Surr: 4-Bromofluorobenzene	200		200.0		100	76	119	0	0	
Surr: Dibromofluoromethane	195		200.0		97.7	85	115	0	0	
Surr: Toluene-d8	201		200.0		100	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_240509A

Sample ID: **ICV-240509**	Batch ID: **R132961**	TestNo: **E624.1**	Units: **µg/L**
SampType: **ICV**	Run ID: **GCMS5_240509A**	Analysis Date: **5/9/2024 9:54:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	44.3	10.0	46.40	0	95.4	70	130			
Carbon tetrachloride	38.1	2.00	46.40	0	82.1	70	130			
Chlorobenzene	42.8	10.0	46.40	0	92.3	70	130			
Chloroform	41.1	2.00	46.40	0	88.6	70	130			
Chlorodibromomethane	39.2	5.00	46.40	0	84.5	70	130			
1,2-Dibromoethane	40.2	2.00	46.40	0	86.7	70	130			
1,2-Dichloroethane	39.2	5.00	46.40	0	84.5	70	130			
1,1-Dichloroethylene	40.2	5.00	46.40	0	86.6	70	130			
Methyl ethyl ketone	238	50.0	232.0	0	103	70	130			
Tetrachloroethylene	41.3	10.0	46.40	0	88.9	70	130			
Trichloroethylene	39.7	5.00	46.40	0	85.6	70	130			
1,1,1-Trichloroethane	38.7	10.0	46.40	0	83.3	70	130			
TTHM (Total Trihalomethanes)	157	10.0	185.6	0	84.6	70	130			
Vinyl chloride	41.9	10.0	46.40	0	90.4	70	130			
Acrolein	94.3	50.0	116.0	0	81.3	70	130			
Acrylonitrile	82.2	50.0	92.80	0	88.6	70	130			
1,1,2,2-Tetra-chloroethane	46.0	10.0	46.40	0	99.2	70	130			
Bromoform	36.3	10.0	46.40	0	78.3	70	130			
Chloroethane	41.3	10.0	46.40	0	88.9	70	130			
2-Chloroethylvinyl Ether	49.8	10.0	46.40	0	107	70	130			
Dichlorobromomethane	40.4	5.00	46.40	0	87.1	70	130			
1,1-Dichloroethane	43.8	10.0	46.40	0	94.4	70	130			
1,2-Dichloropropane	44.5	10.0	46.40	0	95.9	70	130			
1,3-Dichloropropylene	42.7	10.0	46.40	0	92.0	70	130			
Ethyl benzene	42.0	10.0	46.40	0	90.4	70	130			
Methyl bromide	23.7	20.0	46.40	0	51.0	70	130			S
Methyl chloride	40.8	20.0	46.40	0	87.9	70	130			
Methylene chloride	44.9	5.00	46.40	0	96.8	70	130			
Toluene	42.4	10.0	46.40	0	91.4	70	130			
1,2-Trans-Dichloroethylene	41.3	2.00	46.40	0	88.9	70	130			
1,1,2-Trichloroethane	41.7	10.0	46.40	0	89.9	70	130			
1,2-Dichlorobenzene	43.5	5.00	46.40	0	93.7	70	130			
1,3-Dichlorobenzene	44.0	5.00	46.40	0	94.9	70	130			
1,4-Dichlorobenzene	43.9	5.00	46.40	0	94.6	70	130			
Surr: 1,2-Dichloroethane-d4	200		200.0		100	72	119			
Surr: 4-Bromofluorobenzene	201		200.0		101	76	119			
Surr: Dibromofluoromethane	190		200.0		95.2	85	115			
Surr: Toluene-d8	206		200.0		103	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240509A

The QC data in batch 115339 applies to the following samples: 2405086-05C, 2405086-06C

Sample ID: **MB-115339** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **MBLK** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 10:59:53 AM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	<100	400								
Nitrate-N	<100	500								

Sample ID: **LCS-115339** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **LCS** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 11:18:53 AM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3910	400	4000	0	97.7	90	110			
Nitrate-N	4840	500	5000	0	96.9	90	110			

Sample ID: **LCSD-115339** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **LCSD** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 11:44:45 AM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3910	400	4000	0	97.8	90	110	0.168	20	
Nitrate-N	4850	500	5000	0	97.1	90	110	0.232	20	

Sample ID: **2405124-01CMS** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **MS** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 4:12:17 PM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1850000	40000	2000000	0	92.7	90	110			
Nitrate-N	434000	50000	452000	0	96.0	90	110			

Sample ID: **2405124-01CMSD** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **MSD** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 4:31:17 PM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1880000	40000	2000000	0	93.8	90	110	1.19	20	
Nitrate-N	442000	50000	452000	0	97.8	90	110	1.82	20	

Sample ID: **2405115-01AMS** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **MS** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 5:09:17 PM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	196000	4000	200000	1900	97.2	90	110			
Nitrate-N	45200	5000	45200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240509A

Sample ID: **2405115-01AMSD** Batch ID: **115339** TestNo: **E300** Units: **µg/L**
SampType: **MSD** Run ID: **IC4_240509A** Analysis Date: **5/9/2024 5:28:17 PM** Prep Date: **5/9/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	197000	4000	200000	1900	97.6	90	110	0.427	20	
Nitrate-N	45400	5000	45200	0	101	90	110	0.417	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_240509A

Sample ID: **ICV-240509**	Batch ID: **R132973**	TestNo: **E300**	Units: **µg/L**
SampType: **ICV**	Run ID: **IC4_240509A**	Analysis Date: **5/9/2024 10:40:53 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	10100	400	10000	0	101	90	110			
Nitrate-N	12700	500	12500	0	102	90	110			

Sample ID: **CCV1-240509**	Batch ID: **R132973**	TestNo: **E300**	Units: **µg/L**
SampType: **CCV**	Run ID: **IC4_240509A**	Analysis Date: **5/10/2024 9:37:32 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	3890	400	4000	0	97.2	90	110			
Nitrate-N	4810	500	5000	0	96.1	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240508C**

The QC data in batch 115308 applies to the following samples: 2405086-01A, 2405086-02A

Sample ID: **MB-115308** Batch ID: **115308** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MBLK** Run ID: **UV/VIS_2_240508C** Analysis Date: **5/8/2024 10:33:00 AM** Prep Date: **5/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	<3.00	3.00								
Chromium (Tri)	<2.00	3.00								N

Sample ID: **LCS-115308** Batch ID: **115308** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **LCS** Run ID: **UV/VIS_2_240508C** Analysis Date: **5/8/2024 10:33:00 AM** Prep Date: **5/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	99.9	3.00	100.0	0	99.9	85	115			

Sample ID: **LCSD-115308** Batch ID: **115308** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **LCSD** Run ID: **UV/VIS_2_240508C** Analysis Date: **5/8/2024 10:34:00 AM** Prep Date: **5/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	104	3.00	100.0	0	104	85	115	3.56	15	

Sample ID: **2405086-02A MS** Batch ID: **115308** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MS** Run ID: **UV/VIS_2_240508C** Analysis Date: **5/8/2024 10:38:00 AM** Prep Date: **5/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	87.0	3.00	100.0	0	87.0	85	115			

Sample ID: **2405086-02A MSD** Batch ID: **115308** TestNo: **M3500-Cr B** Units: **µg/L**
SampType: **MSD** Run ID: **UV/VIS_2_240508C** Analysis Date: **5/8/2024 10:38:00 AM** Prep Date: **5/8/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	87.0	3.00	100.0	0	87.0	85	115	0.023	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240508C**

Sample ID: **ICV-240508**	Batch ID: **R132957**	TestNo: **M3500-Cr B**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240508C**	Analysis Date: **5/8/2024 10:31:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	94.4	3.00	100.0	0	94.4	90	110			

Sample ID: **CCV-240508**	Batch ID: **R132957**	TestNo: **M3500-Cr B**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240508C**	Analysis Date: **5/8/2024 10:45:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium (Hex)	191	3.00	200.0	0	95.6	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240515A**

The QC data in batch 115386 applies to the following samples: 2405086-05B, 2405086-06B

Sample ID: **MB-115386**	Batch ID: **115386**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MBLK**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:27:00 AM**	Prep Date: **5/14/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	<40.0	100								

Sample ID: **LCS-115386**	Batch ID: **115386**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **LCS**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:27:00 AM**	Prep Date: **5/14/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	521	100	500	0	104	80	120			

Sample ID: **LCSD-115386**	Batch ID: **115386**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **LCSD**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:28:00 AM**	Prep Date: **5/14/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	520	100	500	0	104	80	120	0.192	20	

Sample ID: **2405086-06BMS**	Batch ID: **115386**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MS**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:30:00 AM**	Prep Date: **5/14/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	732	100	500	247	97.0	80	120			

Sample ID: **2405086-06BMSD**	Batch ID: **115386**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **MSD**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:30:00 AM**	Prep Date: **5/14/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	729	100	500	247	96.4	80	120	0.411	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240515A

Sample ID: **ICV-240515**	Batch ID: **R133045**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:26:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	216	100	200	0	108	85	115			

Sample ID: **CCV1-240515**	Batch ID: **R133045**	TestNo: **M4500-P E**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240515A**	Analysis Date: **5/15/2024 9:53:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Phosphorus	512	100	500	0	102	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: **UV/VIS_2_240515D**

The QC data in batch 115390 applies to the following samples: 2405086-03B, 2405086-04B

Sample ID: **MB-115390** Batch ID: **115390** TestNo: **M4500-CN E** Units: **µg/L**
SampType: **MBLK** Run ID: **UV/VIS_2_240515D** Analysis Date: **5/15/2024 3:10:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Available	<10.0	20.0								
Cyanide, Total	<10.0	20.0								

Sample ID: **LCS-115390** Batch ID: **115390** TestNo: **M4500-CN E** Units: **µg/L**
SampType: **LCS** Run ID: **UV/VIS_2_240515D** Analysis Date: **5/15/2024 3:11:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	183	20.0	200	0	91.5	85	115			

Sample ID: **2405085-04BMS** Batch ID: **115390** TestNo: **M4500-CN E** Units: **µg/L**
SampType: **MS** Run ID: **UV/VIS_2_240515D** Analysis Date: **5/15/2024 3:11:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	189	20.0	200	0	94.3	79	114			

Sample ID: **2405085-04BMSD** Batch ID: **115390** TestNo: **M4500-CN E** Units: **µg/L**
SampType: **MSD** Run ID: **UV/VIS_2_240515D** Analysis Date: **5/15/2024 3:12:00 PM** Prep Date: **5/15/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	178	20.0	200	0	88.9	79	114	5.89	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2405086
Project: IPP WEST Plant Long QTR

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_240515D

Sample ID: **ICV-240515**	Batch ID: **R133079**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **ICV**	Run ID: **UV/VIS_2_240515D**	Analysis Date: **5/15/2024 3:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	98.6	20.0	100	0	98.6	85	115			

Sample ID: **CCV1-240515**	Batch ID: **R133079**	TestNo: **M4500-CN E**	Units: **µg/L**
SampType: **CCV**	Run ID: **UV/VIS_2_240515D**	Analysis Date: **5/15/2024 3:20:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cyanide, Total	175	20.0	200	0	87.7	85	115			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

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TABLE OF CONTENTS

2405086

This report consists of this Table of Contents and the following pages:

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Total Pages: 26

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LABORATORY DATA PACKAGE COVER PAGE

Project 1102832

2405086

This data package consists of:

☑ This signature page, the laboratory review checklist, and the following reportable data:

☑ R1 Field chain-of-custody documentation;

☑ R2 Sample identification cross-reference;

☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

☑ R4 Surrogate recovery data including: (R4 - R8: See QC Report)
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

☑ R5 Test reports/summary forms for blank samples;

☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

☑ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary

☑ R10 Other problems or anomalies.

☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Name	Signature	Official Title	Date
Bill Peery (WJP)	Bill Peery	VP Technical Services	5/28/2024

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SAMPLE CROSS REFERENCE

Project
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2405086

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Sample	Sample ID	Taken	Time	Received
2297988	*INFLUENT GRAB 1*	05/07/2024	12:00:00	05/10/2024

Bottle 01 Client supplied HCl Clean Metals Bottle
Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1119325) Volume: 50.00000 mL <== Derived from 01 (47 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 245.7 2	02	1119325	05/15/2024	1119481	05/15/2024

Sample	Sample ID	Taken	Time	Received
2297991	*EFFLUENT GRAB 1*	05/07/2024	23:59:00	05/10/2024

Bottle 01 Client supplied HCl Clean Metals Bottle
Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1119325) Volume: 50.00000 mL <== Derived from 01 (47 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 245.7 2	02	1119325	05/15/2024	1119481	05/15/2024

Sample	Sample ID	Taken	Time	Received
2297993	*INFLUENT COMP*	05/08/2024	12:00:00	05/10/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Prepared Bottle: 2 mL Autosampler Vial (Batch 1119425) Volume: 10.00000 mL <== Derived from 01 (525 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	02	1119425	05/15/2024	1119920	05/17/2024

Sample	Sample ID	Taken	Time	Received
2297994	*EFFLUENT COMP*	05/08/2024	23:59:00	05/10/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Prepared Bottle: 2 mL Autosampler Vial (Batch 1119425) Volume: 10.00000 mL <== Derived from 01 (527 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	02	1119425	05/15/2024	1119920	05/17/2024

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SAMPLE PREPARATION

05/28/2024

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Prep Set # 1119325 05/15/2024

Analytical Set # 1119481 **EPA 245.7 2** 05/15/2024

Sample	Sample ID	Bottle
2297988	INFLUENT GRAB 1	02
2297991	EFFLUENT GRAB 1	02

Prep Set # 1119425 05/15/2024

Analytical Set # 1119920 **EPA 615** 05/17/2024

Sample	Sample ID	Bottle
2297993	INFLUENT COMP	02
2297994	EFFLUENT COMP	02

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HOLDING TIME COMPLIANCE

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Name	Method	Taken:	Received	Analyzed	Hold	Elapsed
	2297988	5/7/24 12:00	05/10/2024			
Mercury, Total (low level)	EPA 245.7 2			5/15/24 13:41	90.00	8.00
Low Level Mercury Liquid Metals	EPA 245.7 2			5/15/24 9:30	90.00	7.00
	2297991	5/7/24 23:59	05/10/2024			
Mercury, Total (low level)	EPA 245.7 2			5/15/24 13:51	90.00	7.00
Low Level Mercury Liquid Metals	EPA 245.7 2			5/15/24 9:30	90.00	7.00
	2297993	5/8/24 12:00	05/10/2024			
Herbicides by GC	EPA 615			5/17/24 6:37	45.00	8.00
Esterification of Sample	EPA 615			5/15/24 14:00	7.00	7.00
	2297994	5/8/24 23:59	05/10/2024			
Herbicides by GC	EPA 615			5/17/24 6:57	45.00	8.00
Esterification of Sample	EPA 615			5/15/24 14:00	7.00	6.00

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RESULTS

Sample Results

2297988 INFLUENT GRAB 1 Received: 05/10/2024

Non-Potable Water | Collected by: Client | DHL Analytical | PO: 20830
Taken: 05/07/2024 12:00:00

EPA 245.7 2 | Prepared: 1119325 05/15/2024 09:30:00 | Analyzed 1119481 05/15/2024 13:41:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	3.07	ng/L	5.00	J	7439-97-6	02

2297991 EFFLUENT GRAB 1 Received: 05/10/2024

Non-Potable Water | Collected by: Client | DHL Analytical | PO: 20830
Taken: 05/07/2024 23:59:00

EPA 245.7 2 | Prepared: 1119325 05/15/2024 09:30:00 | Analyzed 1119481 05/15/2024 13:51:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	<1.28	ng/L	1.28		7439-97-6	02

2297993 INFLUENT COMP Received: 05/10/2024

Non-Potable Water | Collected by: Client | DHL Analytical | PO: 20830
Taken: 05/08/2024 12:00:00

EPA 615 | Prepared: 1119425 05/15/2024 14:00:00 | Analyzed 1119920 05/17/2024 06:37:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.700	ug/L	0.700	SD	94-75-7	02
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300	S	93-72-1	02

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2297994 EFFLUENT COMP — Received: 05/10/2024

Non-Potable Water — Collected by: Client — DHL Analytical — PO: 20830
Taken: 05/08/2024 23:59:00

EPA 615 — Prepared: 1119425 05/15/2024 14:00:00 — Analyzed 1119920 05/17/2024 06:57:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	0.776	ug/L	0.700	JSD	94-75-7	02
NELAC	2,4,5-TP (Silvex)	0.914	ug/L	0.300	S	93-72-1	02

Sample Preparation

2297988 INFLUENT GRAB 1 — Received: 05/10/2024

20830

05/07/2024

Prepared: 05/28/2024 14:34:00 — Analyzed 05/28/2024 14:34:00 WJP

z	Level IV Data Review	Completed

EPA 245.7 2 — Prepared: 1119325 05/15/2024 09:30:00 — Analyzed 1119325 05/15/2024 09:30:00 MP1

NELAC	Low Level Mercury Liquid Metals	50/47	ml	01

2297991 EFFLUENT GRAB 1 — Received: 05/10/2024

20830

05/07/2024

Prepared: 05/28/2024 14:34:00 — Analyzed 05/28/2024 14:34:00 WJP

z	Level IV Data Review	Completed

EPA 245.7 2 — Prepared: 1119325 05/15/2024 09:30:00 — Analyzed 1119325 05/15/2024 09:30:00 MP1

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2297991 EFFLUENT GRAB 1 — Received: 05/10/2024

20830

05/07/2024

EPA 245.7 2	Prepared:	1119325	05/15/2024	09:30:00	Analyzed	1119325	05/15/2024	09:30:00	MP1
NELAC Low Level Mercury Liquid Metals	50/47	ml							01

2297993 INFLUENT COMP — Received: 05/10/2024

20830

05/08/2024

	Prepared:	05/10/2024	15:14:30	Calculated		05/10/2024	15:14:30	CAL	
z Environmental Fee (per Project)	Verified								
	Prepared:	05/28/2024	14:34:00	Analyzed		05/28/2024	14:34:00	WJP	
z Level IV Data Review	Completed								
EPA 615	Prepared:	1119425	05/15/2024	14:00:00	Analyzed	1119425	05/15/2024	14:00:00	MCC
NELAC Esterification of Sample	10/525	ml							01
EPA 615	Prepared:	1119425	05/15/2024	14:00:00	Analyzed	1119920	05/17/2024	06:37:00	KAP
NELAC Herbicides by GC	Entered								02

2297994 EFFLUENT COMP — Received: 05/10/2024

20830

05/08/2024

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2297994 **EFFLUENT COMP** Received: 05/10/2024

20830

05/08/2024

		Prepared:		*05/28/2024*	*14:34:00*	*Analyzed*		*05/28/2024*	*14:34:00*	*WJP*
z	**Level IV Data Review**	**Completed**								
	EPA 615	*Prepared:*	*1119425*	*05/15/2024*	*14:00:00*	*Analyzed*	*1119425*	*05/15/2024*	*14:00:00*	*MCC*
NELAC	**Esterification of Sample**	**10/527**	**ml**							01
	EPA 615	*Prepared:*	*1119425*	*05/15/2024*	*14:00:00*	*Analyzed*	*1119920*	*05/17/2024*	*06:57:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								02

Qualifiers:

J - Analyte detected below quantitation limit
S - Standard reads lower than desired
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.

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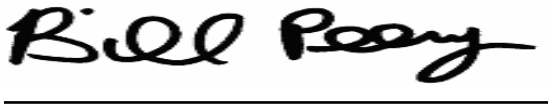

Bill Peery, MS, VP Technical Services

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Metals**									**EPA 245.7 2**	
2297988	**INFLUENT GRAB 1**										
		Collection:	05/07/2024	12:00:00	Client				*Received:*	05/10/2024	
	Prepared: ***1119325***										
				Analyzed:	***1119481***			5/15/24	13:41:00		
7439-97-6	**Mercury, Total (low level)**	**3.07**	1.20	1.28	5.00	5.32	J	**ng/L**	5.00	02	1.06
2297991	**EFFLUENT GRAB 1**										
		Collection:	05/07/2024	23:59:00	Client				*Received:*	05/10/2024	
	Prepared: ***1119325***										
				Analyzed:	***1119481***			5/15/24	13:51:00		
7439-97-6	**Mercury, Total (low level)**	**ND**	1.20	1.28	5.00	5.32		**ng/L**	5.00	02	1.06

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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RESULTS

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Qualifiers:

J - Analyte detected below quantitation limit
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S - Standard reads lower than desired

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z -- Not covered by our NELAC scope of accreditation

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CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Organics**									**EPA 615**	
2297993	**INFLUENT COMP**										
		Collection:	05/08/2024	12:00:00	Client				*Received:*	05/10/2024	
	Prepared: ***1119425***										
				Analyzed:	***1119920***		5/17/24	06:37:00			
94-75-7	**2,4 Dichlorophenoxyacetic acid**	**ND**	0.159	0.303	0.500	0.952	SD	**ug/L**	0.700	02	1.90
93-72-1	**2,4,5-TP (Silvex)**	**ND**	0.0893	0.170	0.300	0.571	S	**ug/L**	0.300	02	1.90
2297994	**EFFLUENT COMP**										
		Collection:	05/08/2024	23:59:00	Client				*Received:*	05/10/2024	
	Prepared: ***1119425***										
				Analyzed:	***1119920***		5/17/24	06:57:00			
94-75-7	**2,4 Dichlorophenoxyacetic acid**	**0.776**	0.159	0.302	0.500	0.949	JSD	**ug/L**	0.700	02	1.90
93-72-1	**2,4,5-TP (Silvex)**	**0.914**	0.0893	0.170	0.300	0.569	S	**ug/L**	0.300	02	1.90

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
1102832

Printed 05/28/2024

2405086

DHL1

DHL Analytical
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
S - Standard reads lower than desired

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

Bill Peery, MS, VP Technical Services

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*

SPL The Science of Sure

QC GROUPS

Project
1102832

DHL Analytical
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

	Test	*QCgroup*	*Analyzed*	
	ESRL	1,119,425	05/15/2024	
	245l	1,119,325	05/15/2024	
1545	HP 5890A - ECD5890 w/autosampler	HP		3336A57718
	!HER	1,119,920	05/17/2024	
7472	Mercury analyzer (Low Level)	Teledyne Leeman labs		US23192001
	*Hgl	1,119,481	05/15/2024	

Email: Kilgore.ProjectManagement@spllabs.com

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

QUALITY CONTROL

DHL1-C

DHL Analytical
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Project
1102832

Printed 05/28/2024

Analytical Set 1119481 — EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	5.67	5.00	ng/L	113	70.0 - 130	126340012

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1119325	ND	1.20	5.00	ng/L	126340009

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1119325	1.73	1.20	5.00	ng/L	126340014
Mercury, Total (low level)	1119325	2.45	1.20	5.00	ng/L	126340026
Mercury, Total (low level)	1119325	2.01	1.20	5.00	ng/L	126340038
Mercury, Total (low level)	1119481	1.68	1.20	5.00	ng/L	126340066

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.0	25.0	ng/L	104	87.0 - 113	126340013
Mercury, Total (low level)	26.5	25.0	ng/L	106	87.0 - 113	126340025
Mercury, Total (low level)	26.8	25.0	ng/L	107	87.0 - 113	126340037
Mercury, Total (low level)	26.9	25.0	ng/L	108	87.0 - 113	126340043
Mercury, Total (low level)	26.9	25.0	ng/L	108	87.0 - 113	126340054
Mercury, Total (low level)	27.6	25.0	ng/L	110	87.0 - 113	126340065

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	50.0	50.0	ng/L	100	90.0 - 110	126340007

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	27.2	25.0	ng/L	109	90.0 - 110	126340008

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1119325	27.0	27.4	25.0	76.0 - 115	108	110	ng/L	1.47	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2296946	24.7	24.8	1.86	26.6	63.0 - 111	85.9	86.2	ng/L	0.437	18.0
Mercury, Total (low level)	2297194	27.1	27.7	1.42	26.6	63.0 - 111	96.5	98.8	ng/L	2.31	18.0

Analytical Set 1119920 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1119425	ND	0.159	0.500	ug/L	126347776
2,4,5-TP (Silvex)	1119425	ND	0.0893	0.300	ug/L	126347776

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

DHL1-C

DHL Analytical
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Project
1102832

Printed 05/28/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	157	150	ug/L	105	80.0 - 115		126347763
2,4 Dichlorophenoxyacetic acid	96.2	150	ug/L	64.2	80.0 - 115	*	126347767
2,4 Dichlorophenoxyacetic acid	134	150	ug/L	89.7	80.0 - 115		126347775
2,4 Dichlorophenoxyacetic acid	127	150	ug/L	84.8	80.0 - 115		126347779
2,4,5-TP (Silvex)	167	150	ug/L	111	80.0 - 115		126347763
2,4,5-TP (Silvex)	85.4	150	ug/L	56.9	80.0 - 115	*	126347767
2,4,5-TP (Silvex)	122	150	ug/L	81.3	80.0 - 115		126347775
2,4,5-TP (Silvex)	104	150	ug/L	69.1	80.0 - 115	*	126347779

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1119425	0.839	0.481	1.00	0.100 - 319	83.9	48.1	ug/L	54.2 *	30.0
2,4,5-TP (Silvex)	1119425	0.592	0.568	1.00	0.100 - 244	59.2	56.8	ug/L	4.14	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	158	200	ug/L	79.0	0.100 - 313	126347763
2,4-Dichlorophenylacetic Acid		CCV	111	200	ug/L	55.5	0.100 - 313	126347767
2,4-Dichlorophenylacetic Acid		CCV	145	200	ug/L	72.5	0.100 - 313	126347775
2,4-Dichlorophenylacetic Acid		CCV	149	200	ug/L	74.5	0.100 - 313	126347779
2,4-Dichlorophenylacetic Acid	1119425	Blank	48.1	200	ug/L	24.0	0.100 - 313	126347776
2,4-Dichlorophenylacetic Acid	1119425	LCS	82.9	200	ug/L	41.4	0.100 - 313	126347777
2,4-Dichlorophenylacetic Acid	1119425	LCS Dup	108	200	ug/L	54.0	0.100 - 313	126347778
2,4-Dichlorophenylacetic Acid	2297993	Unknown	0.698	3.81	ug/L	18.3	0.100 - 313	126347854
2,4-Dichlorophenylacetic Acid	2297994	Unknown	2.31	3.80	ug/L	60.8	0.100 - 313	126347855

* 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); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; 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.)

Email: Kilgore.ProjectManagement@spllabs.com

1102832 CoC Print Group 001 of 001

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664
TEL: *(512) 388-8222* FAX:

Work Order: 2405086

CHAIN-OF-CUSTODY RECORD

Subcontractor:
AquaTech (Austin Office)
3512 Montopolis Drive
Austin, Texas 78744

TEL: (512) 301-9559
FAX:
Acct #:

09-May-24

Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests: Hg-LoLevel E245.7	Requested Tests: Herb_W E615
Influent Grab 1	Aqueous	01B	05/07/24 12:00 PM	500GHCL	1	
Effluent Grab 1	Aqueous	02B	05/07/24 11:59 PM	500GHCL	1	
Influent Comp	Aqueous	05H	05/08/24 12:00 PM	500AMGU		2
Effluent Comp	Aqueous	06H	05/08/24 11:59 PM	500AMGU		2

See attached target list for E615

General Comments:

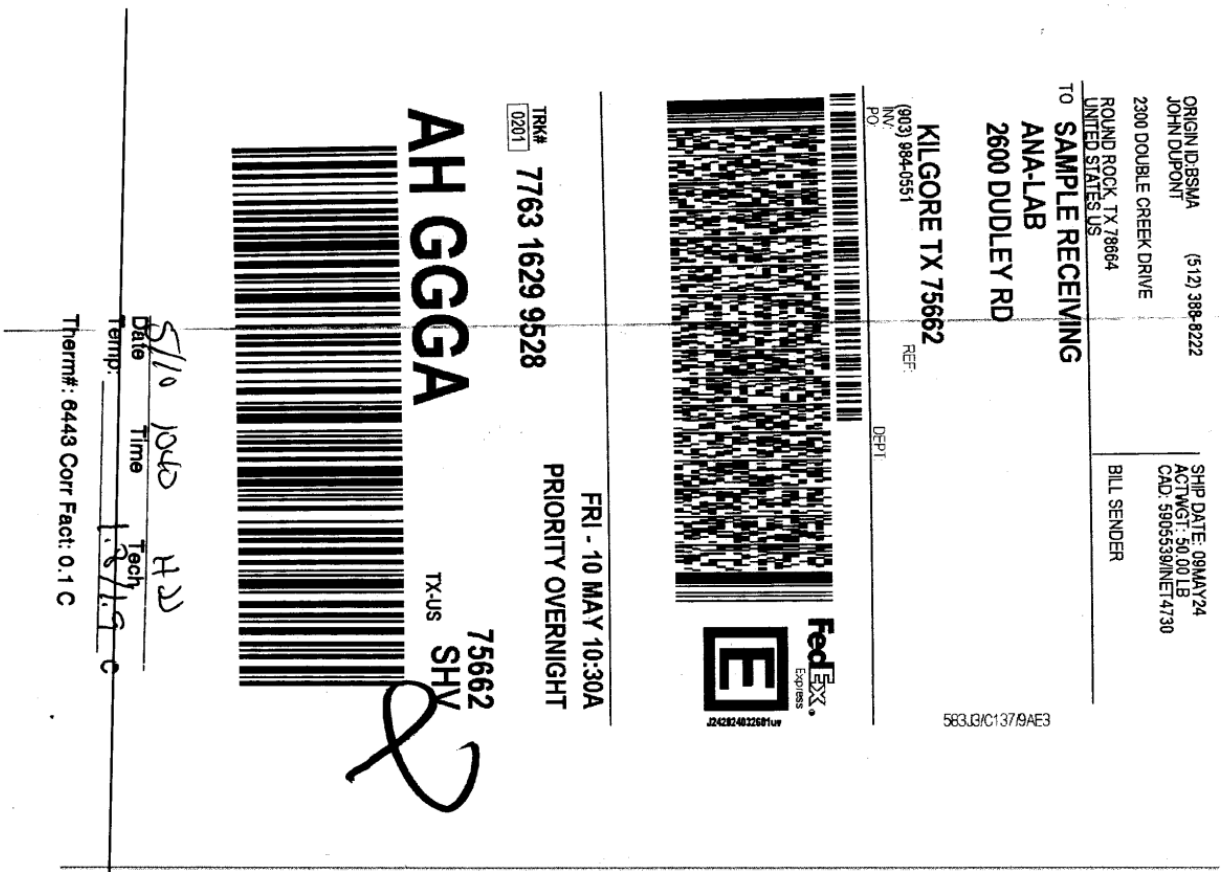
Please analyze these samples with a Standard Turnaround Time.
Quality Control Package Needed: Standard - SEND PDF & Excel EDD Please
EMAIL report to both cac@dhlanalytical.com & dupont@dhlanalytical.com
Call John DuPont if you have questions.

		Date/Time			Date/Time
Relinquished by:		5/9/24 1700	Received by:	FEDEX	
Relinquished by:	FEDEX		Received by:		

SEL List for E615

Rpt	T	Analyte	Synonym	MDL	PQL
☑	A	2,4-D		0.01	0.3
☑	A	2,4,5-TP (Silvex)		0.01	0.3

1102832 CoC Print Group 001 of 001



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 05/28/2024					
Project Name: 2405086			Laboratory Job (Project) Number: 1102832					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1119325 QCgroup: 1119481					
#	A	Description	Yes	No	NA	NR	ER#	
R01	OI	**Chain-of-Custody (C-O-C)**						
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?				X	1	
		Were all departures from standard conditions described in the exception report?	X					
R02	OI	**Sample and Quality Control (QC) Identification**						
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X					
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X					
R03	OI	**Test Reports**						
		Were all samples prepared and analyzed within holding times?	X					
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X					
		Were calculations checked by a peer or supervisor?	X					
		Were all analyte identifications checked by a peer or supervisor?	X					
		Were sample quantitation limits reported for all analytes not detected?	X					
		Were all results for soil and sediment samples reported on a dry weight basis?			X			
		Were % moisture (or solids) reported for all soil and sediment samples?			X			
		If required for the project, tentatively identified compounds reported?			X			
R04	O	**Surrogate Recovery Data**						
		Were surrogates added prior to extraction?			X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X			
R05	OI	**Test Reports/Summary Forms for Blank Samples**						
		Were appropriate type(s) of blanks analyzed?	X					
		Were blanks analyzed at the appropriate frequency?	X					
		Were blank concentrations < MQL?	X					
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X					
R06	OI	**Laboratory Control Samples (LCS)**						
		Were all chemicals of concern included in the LCS?			X			
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?			X			
		Were LCSs analyzed at the required frequency?			X			
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X					
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X					
		Was the LCS duplicate relative percent difference within QC limits?	X					
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**						
		Were the project/method specified analytes included in the MS and MSD?			X			
		Were MS/MSD analyzed at the appropriate frequency?			X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X					
		Were MS/MSD RPDs within laboratory QC limits?	X					
R08	OI	**Analytical Duplicate Data**						
		Were appropriate analytical duplicates analyzed for each matrix?			X			
		Were analytical duplicates analyzed at the appropriate frequency?			X			
		Were RPDs or relative standard deviations within the laboratory QC limits?			X			
R09	OI	**Method Quantitation Limits (MQLs)**						
		Are the MQLs for each method analyte included in the laboratory data package?	X					
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X					
		Are unadjusted MQLs included in the laboratory data package?	X					
R10	OI	**Other Problems/Anomalies**						
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X					
		Were all necessary corrective actions preformed for the reported data?	X					
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X					

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 05/28/2024					
Project Name: 2405086			Laboratory Job (Project) Number: 1102832					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1119325 QCgroup: 1119481					
#	A	Description	Yes	No	NA	NR	ER#	
S01	OI	**Initial Calibration (ICAL)**						
		Were response factors and/or relative response factors for each analyte within QC limits?	X					
		Were percent RSDs or correlation coefficient criteria met?	X					
		Was the number of standards recommended in the method used for all analytes?	X					
		Were all points generated between the lowest and highest standard used to calculate the curve?	X					
		Are ICAL data available for all instruments used?	X					
		Has the initial calibration curve been verified using an appropriate second source standard?	X					
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**						
		Was the CCV analyzed at the method-required frequency?	X					
		Were percent differences for each analyte within the method-required QC limits?	X					
		Was the ICAL curve verified for each analyte?	X					
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?	X					
S03	O	**Mass Spectral Tuning**						
		Was the appropriate compound for the method used for tuning?			X			
		Were ion abundance data within the method-required QC limits?			X			
S04	O	**Internal Standards (IS)**						
		Were IS area counts and retention times within the method-required QC limits?			X			
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**						
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X					
		Were data associated with manual integrations flagged on the raw data?	X					
S06	O	**Dual Column Confirmation**						
		Did dual column confirmation results meet the method-required QC?			X			
S07	O	**Tentatively Identified Compounds (TICs)**						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X			
S08	I	**Interference Check Sample (ICS) Results**						
		Were precent recoveries within method QC limits?	X					
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**						
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X			
S10	OI	**Method Detection Limit (MDL) Studies**						
		Was a MDL study performed for each reported analyte?	X					
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X					
S11	OI	**Proficiency Test Reports**						
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X					
S12	OI	**Standards Documentation**						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X					
S13	IO	**Compound/Analyte Identification Procedures**						
		Are the procedures for compound/analyte identification documented?	X					
S14	OI	**Demonstration of Analyst Compentency (DOC)**						
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X					
		Is documentation of the analyst's competency up-to-date and on file?	X					
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**						
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X					
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**						
		Are laboratory SOPs current and on file for each method performed?	X					

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 05/28/2024					
Project Name: 2405086			Laboratory Job (Project) Number: 1102832					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1119425 QCgroup: 1119920					
#	A	Description	Yes	No	NA	NR	ER#	
R01	OI	**Chain-of-Custody (C-O-C)**						
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?				X	1	
		Were all departures from standard conditions described in the exception report?	X					
R02	OI	**Sample and Quality Control (QC) Identification**						
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X					
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X					
R03	OI	**Test Reports**						
		Were all samples prepared and analyzed within holding times?	X					
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X					
		Were calculations checked by a peer or supervisor?	X					
		Were all analyte identifications checked by a peer or supervisor?	X					
		Were sample quantitation limits reported for all analytes not detected?	X					
		Were all results for soil and sediment samples reported on a dry weight basis?			X			
		Were % moisture (or solids) reported for all soil and sediment samples?			X			
		If required for the project, tentatively identified compounds reported?			X			
R04	O	**Surrogate Recovery Data**						
		Were surrogates added prior to extraction?	X					
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X					
R05	OI	**Test Reports/Summary Forms for Blank Samples**						
		Were appropriate type(s) of blanks analyzed?	X					
		Were blanks analyzed at the appropriate frequency?	X					
		Were blank concentrations < MQL?	X					
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X					
R06	OI	**Laboratory Control Samples (LCS)**						
		Were all chemicals of concern included in the LCS?			X			
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?			X			
		Were LCSs analyzed at the required frequency?			X			
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X					
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X					
		Was the LCS duplicate relative percent difference within QC limits?		X			2	
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**						
		Were the project/method specified analytes included in the MS and MSD?			X			
		Were MS/MSD analyzed at the appropriate frequency?			X			
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X			
		Were MS/MSD RPDs within laboratory QC limits?			X			
R08	OI	**Analytical Duplicate Data**						
		Were appropriate analytical duplicates analyzed for each matrix?			X			
		Were analytical duplicates analyzed at the appropriate frequency?			X			
		Were RPDs or relative standard deviations within the laboratory QC limits?			X			
R09	OI	**Method Quantitation Limits (MQLs)**						
		Are the MQLs for each method analyte included in the laboratory data package?	X					
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X					
		Are unadjusted MQLs included in the laboratory data package?	X					
R10	OI	**Other Problems/Anomalies**						
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X					
		Were all necessary corrective actions preformed for the reported data?	X					
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X					

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 05/28/2024					
Project Name: 2405086			Laboratory Job (Project) Number: 1102832					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1119425 QCgroup: 1119920					
#	A	Description	Yes	No	NA	NR	ER#	
S01	OI	**Initial Calibration (ICAL)**						
		Were response factors and/or relative response factors for each analyte within QC limits?	X					
		Were percent RSDs or correlation coefficient criteria met?	X					
		Was the number of standards recommended in the method used for all analytes?	X					
		Were all points generated between the lowest and highest standard used to calculate the curve?	X					
		Are ICAL data available for all instruments used?	X					
		Has the initial calibration curve been verified using an appropriate second source standard?	X					
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**						
		Was the CCV analyzed at the method-required frequency?	X					
		Were percent differences for each analyte within the method-required QC limits?		X			3	
		Was the ICAL curve verified for each analyte?	X					
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?			X			
S03	O	**Mass Spectral Tuning**						
		Was the appropriate compound for the method used for tuning?			X			
		Were ion abundance data within the method-required QC limits?			X			
S04	O	**Internal Standards (IS)**						
		Were IS area counts and retention times within the method-required QC limits?			X			
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**						
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X					
		Were data associated with manual integrations flagged on the raw data?	X					
S06	O	**Dual Column Confirmation**						
		Did dual column confirmation results meet the method-required QC?	X					
S07	O	**Tentatively Identified Compounds (TICs)**						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X			
S08	I	**Interference Check Sample (ICS) Results**						
		Were precent recoveries within method QC limits?			X			
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**						
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X			
S10	OI	**Method Detection Limit (MDL) Studies**						
		Was a MDL study performed for each reported analyte?	X					
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X					
S11	OI	**Proficiency Test Reports**						
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X					
S12	OI	**Standards Documentation**						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X					
S13	IO	**Compound/Analyte Identification Procedures**						
		Are the procedures for compound/analyte identification documented?	X					
S14	OI	**Demonstration of Analyst Compentency (DOC)**						
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X					
		Is documentation of the analyst's competency up-to-date and on file?	X					
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**						
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X					
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**						
		Are laboratory SOPs current and on file for each method performed?	X					

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A: (cont'd):	Laboratory Review Checklist: Exception Reports		
Laboratory Name:	SPL Kilgore	LRC Date:	05/28/2024
Project Name:	2405086	Laboratory Job (Project) Number:	1102832
Reviewer Name:	Bill Peery (WJP)	PrepSet: 1119325 QCgroup:	1119481

ER#	Description
1	Bottles were reviewed at login. Please see the chain of custody record for sample receipt details.

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Appendix A: (cont'd):	Laboratory Review Checklist: Exception Reports		
Laboratory Name:	SPL Kilgore	LRC Date:	05/28/2024
Project Name:	2405086	Laboratory Job (Project) Number:	1102832
Reviewer Name:	Bill Peery (WJP)	PrepSet: 1119425	QCgroup: 1119920

ER#	Description
1	Bottles were reviewed at login. Please see the chain of custody record for sample receipt details.
2	The following LCSD constituents have RPDs outside of laboratory QC limits: 2,4 Dichlorophenoxyacetic acid
3	The following CCV constituents have recoveries outside of laboratory QC limits: 2,4 Dichlorophenoxyacetic acid, 2,4,5-TP (Silvex), 2,4,5-TP (Silvex)

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

Brushy West #10264-001, TX0075167
Month Of April-24

Date	Total Effluent Creek Flow MGD	TwoHR_Peak Flow GPM	Annual Average	DO mg/l	pH S. U.	Cl mg/l	Dechlor	EFFLUENT																Effluent	
								TSS				NH3				Cbod				Total Phosphorus				Nitrate Nitrogen				Ecoli	
								mg/l	< or >	LBS	7d avg	mg/l	< or >	LBS	7d avg	mg/l	< or >	LBS	7d avg	mg/l	< or >	LBS	mg/l	< or >	LBS	7d avg	CFU/100ml	< or >
4/1/2024	1.00	2491.20		7.77	6.99	UV	UV	2.5	<	20.933		0.672		5.627		1.71		47.12		0.5	<	4.187	4		33.493		3.1	
4/2/2024	1.23	2563.20		7.61	6.99	UV	UV																				4.1	
4/3/2024	1.83	2692.80		7.68	6.87	UV	UV	2.5		38.135		0.079		1.205		2.94		18.38		0.5	<	7.627	10.9		166.267		12.2	
4/4/2024	1.79	1771.20		7.62	7.05	UV	UV																				9.7	
4/5/2024	2.11	1670.40		7.83	7.14	UV	UV																				1.0	
4/6/2024	1.66	2318.40		7.86	6.90	UV	UV																				4.1	
4/7/2024	1.17	2289.60		8.07	7.29	UV	UV																				5.2	
4/8/2024	2.10	3009.60		8.56	7.07	UV	UV	2.5	<	43.827		0.659		11.553		1.16		202.53		0.5	<	8.765	10.8		189.331		10.8	
4/9/2024	2.06	2923.20		8.18	6.94	UV	UV																				5.2	
4/10/2024	1.87	2908.80		8.26	7.14	UV	UV	2.5	<	39.052		0.072		1.125		1.20		17.57		0.5	<	7.810	10.9		170.267		8.5	
4/11/2024	1.52	2908.80		8.07	7.26	UV	UV																				6.3	
4/12/2024	1.93	2635.20		7.93	6.97	UV	UV																				5.0	
4/13/2024	2.20	2620.80		7.36	7.05	UV	UV																				8.5	
4/14/2024	1.99	2577.60		7.29	7.02	UV	UV																				2.0	
4/15/2024	1.21	2620.80		7.21	7.01	UV	UV	2.5	<	25.229		0.173		1.746		1.25		17.62		0.5	<	5.046	11.2		113.024		1.0	
4/16/2024	1.85	2016.00		8.30	7.59	UV	UV																				4.1	
4/17/2024	1.85	2476.80		8.14	7.60	UV	UV	2.5	<	38.489		0.218		3.356		1.62		51.67		0.5	<	7.698	12.1		186.287		4.1	
4/18/2024	1.95	1785.60		8.13	7.47	UV	UV																				10.8	
4/19/2024	1.08	2332.80		7.90	7.17	UV	UV																				3.1	
4/20/2024	1.83	2433.60		8.05	7.08	UV	UV																				3.0	
4/21/2024	1.83	2563.20		7.51	7.18	UV	UV																				10.9	
4/22/2024	1.83	2577.60		7.93	7.10	UV	UV	2.5	<	38.197		0.17		2.597		1.60		39.69		0.50	<	7.639	1.75		26.738		7.3	
4/23/2024	1.75	2347.20		8.00	6.95	UV	UV																				10.7	
4/24/2024	1.87	2505.60		7.77	6.87	UV	UV	2.5	<	39.073		0.169		2.641		1.25		41.28		0.5	<	7.815	14.2		221.934		9.7	
4/25/2024	1.92	2563.20		7.82	7.09	UV	UV																				5.2	
4/26/2024	1.92	2376.00		7.93	7.16	UV	UV																				4.1	
4/27/2024	1.78	2635.20		7.76	6.87	UV	UV																				8.4	
4/28/2024	2.22	2649.60		7.86	7.28	UV	UV																				4.1	
4/29/2024	1.91	2736.00		7.89	7.10	UV	UV	2.5	<	39.803		0.179		2.850		1.49		45.37		0.5	<	7.961	10.9		173.540		1.0	
4/30/2024	1.99	2448.00	1.60	7.92	7.11	UV	UV																				3.1	<
Total	53.257			236.21	213.31	0.00	0	22.5		322.737		2.391		32.7		14.22		481.223		4.5		64.5474	86.75		1280.88		8.5	
AVG	1.77523	2481.60	1.6	7.87367	7.11033	0	0	2.5	#DIV/0!	35.8597		0.26567		3.63334		1.58		53.4692		0.5		7.17194	9.63889		142.32		4.79	
MAX	2.217	3009.60		8.56	7.6	0.00	0	2.5		43.8267		0.672		11.5527		2.94		202.527		0.5		8.76534	14.2		221.934		12.2	
MIN	1.004			7.21	6.87	0.00	0	2.5		20.9334		0.072		1.1247		1.16		17.5687		0.5		4.18668	1.75		26.738		1	

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY.

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

NT:	CORR WWTP West Plant			SUBMISSION DATE:	4-29-24 PG. ___ OF ___
RESS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	David Bennett
NE:	(512) 534-8916	FAX:		Phone Number:	
A REPORTED TO:				MATRIX:	Non-potable Water

CORRESL LAB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
4-09142	West Plant Outfall 001	C G	4-25-24	11:55 p.m.	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4-25-24	11:55 p.m.	P G	1	X				X	X	
-09143	West Plant Influent 001	C G	4-25-24	11:55 p.m.	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4-25-24	11:55 p.m.	P G	1	X				X	X	

ction - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date
)							

ents:

C=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ervation type column. 4: Indicate request for test by marking "X" in correct parameter column.

ED BY: (Signature) David Bennett	Date/Time 4-26-24	RECEIVED BY: (Signature)
QUISHED BY: (Signature)	Date/Time 4-30-24/10:00 1018	RECEIVED BY: (Signature)
QUISHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 6.8 Derived (°C): 6.8
Thermometer ID: B Correction: 0
Custody Seals: ☑ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY.

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

::	CORR WWTP West Plant			SUBMISSION DATE:	4.25.24 PG. ___ OF 1
SS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	Dan V.
E:	(512) 534-8916	FAX:		Phone Number:	
REPORTED TO:				MATRIX:	Non-potable Water

RRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09131	West Plant Outfall 001	C G	4.24.24	0123:55	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4.24.24	0123:55	P G	1	X				X	X	
09132	West Plant Influent 001	C G	4.24.24	0123:55	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4.24.24	0123:55	P G	1	X				X	X	

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Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

ts:

=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ration type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time 4.25.24/8:49	RECEIVED BY: (Signature)
SHED BY: (Signature)	Date/Time 4.25.24/9:14 0930	RECEIVED BY: (Signature)
SHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 5.7 Derived (°C): 5.7
Thermometer ID: B Correction: 0
Custody Seals: ☐ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

:	CORR WWTP West Plant			SUBMISSION DATE:	4.25.24 PG. ___ OF 1
SS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	Dan V.
:	(512) 534-8916	FAX:		Phone Number:	
EPORTED TO:				MATRIX:	Non-potable Water

RRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09131	West Plant Outfall 001	C G	4.24.24	0123:55	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4.24.24	0123:55	P G	1	X				X	X	
09132	West Plant Influent 001	C G	4.24.24	0123:55	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4.24.24	0123:55	P G	1	X				X	X	

n - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

S:

=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ration type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time 4.25.24/8:49	RECEIVED BY: (Signature)
SHED BY: (Signature)	Date/Time 4.25.24/9:14 0930	RECEIVED BY: (Signature) Danielle Ackis
SHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 5.7 Derived (°C): 5.7
Thermometer ID: B Correction: 0
Custody Seals: ☐ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY

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ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

:	CORR WWTP West Plant			SUBMISSION DATE:	4.25.24 PG. 1 OF 1
SS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	Ian V.
:	(512) 534-8916	FAX:		Phone Number:	
EPORTED TO:				MATRIX:	Non-potable Water

IRRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09116	West Plant Outfall 001	C G	4.22.24	0123:57	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4.22.24	0123:57	P G	1	X				X	X	
09117	West Plant Influent 001	C G	4.22.24	0123:57	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4.22.24	0123:57	P G	1	X				X	X	

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Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

ts:

=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" vation type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time 4.23.24 / 9:20	RECEIVED BY: (Signature)
SHED BY: (Signature)	Date/Time 4.23.24 / 10:20	RECEIVED BY: (Signature) 1011
ISHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:

Observed Temp. (°C): 9.2 Derived (°C): 9.2

Thermometer ID: B Correction: 0

Custody Seals: ☐ Broken ☐ Intact ☑ Not Used

Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY.

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

:	CORR WWTP West Plant			SUBMISSION DATE:	4.18.24 PG. 1 OF 1
SS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	[illegible] V.
:	(512) 534-8916	FAX:		Phone Number:	
EPORTED TO:				MATRIX:	Non-potable Water

RRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09106	West Plant Outfall 001	(C) G	4-17-24	0123:57	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4-17-24	0123:59	P G	1	X				X	X	
09107	West Plant Influent 001	C G	4-17-24	0123:59	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4-17-24	0123:58	P G	1	X				X	X	

n - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ation type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time	RECEIVED BY: (Signature)
	4-18-24 8:34	
SHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)
	4-18-24/9:00 0914	
SHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 5.3 Derived (°C): 5.3
Thermometer ID: B Correction: 0
Custody Seals: ☐ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

NT:	CORR WWTP West Plant			SUBMISSION DATE:	4-16-24 PG. 1 OF 1
RESS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
:	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	Tom U.
NE:	(512) 534-8916	FAX:		Phone Number:	
A REPORTED TO:				MATRIX:	Non-potable Water

CORRESL LAB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
-09091	West Plant Outfall 001	O G	4-15-24	0123:59	A G	1	X		X	X			
↓	West Plant Outfall 001	O G	4-15-24	0123:59	B G	1	X				X	X	
-09092	West Plant Influent 001	O G	4-15-24	0123:59	C G	1	X		X	X			
↓	West Plant Influent 001	O G	4-15-24	0123:59	D G	1	X				X	X	

ction - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

D

ients:

: C=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" servation type column. 4: Indicate request for test by marking "X" in correct parameter column.

LED BY: (Signature)	Date/Time 4/16/24	RECEIVED BY: (Signature)
QUISHED BY: (Signature)	Date/Time 4-16-24/10:18 1028	RECEIVED BY: (Signature)
QUISHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:

Observed Temp. (°C): 5.3 Derived (°C): 5.3

Thermometer ID: B Correction: 0

Custody Seals: ☐ Broken ☐ Intact ☑ Not Used

Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY.

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

::	CORR WWTP West Plant			SUBMISSION DATE:	4-11-24 PG. 1 OF 1
:SS:	1114 East Austin Ave			LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE: TX	ZIP: 78664	COLLECTOR NAME:	Tom V.
::	(512) 534-8916	FAX:		Phone Number:	
REPORTED TO:				MATRIX:	Non-potable Water

RRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09080	West Plant Outfall 001	C G	4-10-24	0123:59	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4-10-24	0123:59	P G	1	X				X	X	
09081	West Plant Influent 001	C G	4-10-24	0123:56	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4-10-24	0123:55	P G	1	X				X	X	

on - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

:S

:composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ration type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time 4-11-24/8:20	RECEIVED BY: (Signature)	
SHED BY: (Signature)	Date/Time 4.11.24/9:03 0915	RECEIVED BY: (Signature)	
SHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)	

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 5.1 Derived (°C): 5.1
Thermometer ID: B Correction: 0
Custody Seals: ☐ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

:	CORR WWTP West Plant					SUBMISSION DATE:	4.9.24 PG. 1 OF 1
SS:	1114 East Austin Ave					LOCATION NAME:	West Plant Outfall 001
	Round Rock	STATE:	TX	ZIP:	78664	COLLECTOR NAME:	Tom V.
:	(512) 534-8916	FAX:				Phone Number:	
EPORTED TO:						MATRIX:	Non-potable Water

IRRESL AB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
09063	West Plant Outfall 001	C G	4.8.24	0123:59	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4.8.24	0123:59	P G	1	X				X	X	
09064	West Plant Influent 001	C G	4.8.24	0123:59	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4.8.24	0123:5	P G	1	X				X	X	

on - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

S:

=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" ration type column. 4: Indicate request for test by marking "X" in correct parameter column.

BY: (Signature)	Date/Time 4.9.24/9:04	RECEIVED BY: (Signature)
ISHED BY: (Signature)	Date/Time 4.9.24/9:3/0936	RECEIVED BY: (Signature)
ISHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:

Observed Temp. (°C): 6.0 Derived (°C): 6.0

Thermometer ID: B Correction: 0

Custody Seals: ☐ Broken ☐ Intact ☑ Not Used

Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

ROUND ROCK, TEXAS
PURPOSE. PASSION. PROSPERITY

CITY OF ROUND ROCK
ENVIRONMENTAL SERVICES LABORATORY
GENERAL CHEMISTRY CHAIN OF CUSTODY RECORD

5200 N. IH-35 Round Rock, Texas 78664, Phone:(512)218-5559, Fax:(512)341-3316

IT:	CORR WWTP West Plant				
IESS:	1114 East Austin Ave				
	Round Rock	STATE: TX	ZIP: 78664		
IE:	(512) 534-8916	FAX:			
REPORTED TO:					

SUBMISSION DATE:	4.4.24 PG. 1 OF 1
LOCATION NAME:	West Plant Outfall 001
COLLECTOR NAME:	Tom V.
Phone Number:	
MATRIX:	Non-potable Water

ORRESL LAB ID	FIELD SAMPLE ID/ SAMPLE LOCATION	SAMPLE TYPE[1]	COLLECTION DATE	COLLECTION TIME	CONTAINER TYPE[2]	Number of bottles	PRESERVATION:[3] ICE	PRESERVATION:[3] None	REQUESTED ANALYSES:[4] cBOD	TSS	NH_3	TP	TDS
-09053	West Plant Outfall 001	C G	4.3.24	0123:59	P G	1	X		X	X			
↓	West Plant Outfall 001	C G	4.3.24	0123:59	P G	1	X				X	X	
-09054	West Plant Influent 001	C G	4.3.24	0123:59	P G	1	X		X	X			
↓	West Plant Influent 001	C G	4.3.24	0123:59	P G	1	X				X	X	

tion - To be filled out by City of Round Rock Environmental Services ONLY

Date/Time of Analysis	Analyst	Blank	LCS	Precision	Qualifiers	Result in mg/L	Reviewer/Date

nts:

:=composite, G=grab. 2: P=polyethylene or PTFE plastic, G= Glass. 3: Indicate preservation type by marking "X" rvation type column. 4: Indicate request for test by marking "X" in correct parameter column.

D BY: (Signature)	Date/Time 4.4.24	RECEIVED BY: (Signature)
UISHED BY: (Signature)	Date/Time 4/4/24 9:52	RECEIVED BY: (Signature) 0959
UISHED BY: (Signature)	Date/Time	RECEIVED BY: (Signature)

LABORATORY USE ONLY:

Preservation Check:
Observed Temp. (°C): 8.9 Derived (°C): 8.9
Thermometer ID: D Correction: 0
Custody Seals: ☐ Broken ☐ Intact ☑ Not Used
Delivery: ☑ Hand Delivered ☐ Courier ☐ Shipped

July 31, 2024

Ryan Bornn
CITY OF ROUND ROCK
3400 Sunrise Rd.
ROUND ROCK, Texas 78665
TEL: (512) 218-5561
FAX:

Order No.: 2407240

RE: West Plant Outfall

Dear Ryan Bornn:

DHL Analytical, Inc. received 1 sample(s) on 7/24/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

CLIENT: CURE Environmental Services Lab
ADDRESS: 3400 Sunrise Rd Round Rock TX 78665
PHONE: EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: Ryan Bornn
ADDITIONAL REPORT COPIES TO:

DATE: 7-24-24
PO#:

LAB USE ONLY
DHL WORKORDER #: 2407240

PROJECT LOCATION OR NAME:
CLIENT PROJECT # West Plant Outfall COLLECTOR: MS

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Lab Use Only: W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL ☐ H_3PO_4 ☐ HNO_3 H_2SO_4 NaOH ☐ Zn Acetate ☐ ICE ☑ UNPRESERVED ☑	ANALYSES	FIELD NOTES
West Plant Outfall	01	7-23-24	2359	W	Plastic 250	1		pH ☐ HEX CHROM ☐ ALKALINITY ☑ COD ☐; TDS ☑ TSS ☐ % MOIST ☐ CYANIDE ☐; Nitrate - Nitrogen; Sulfate; Chloride	

BTEX ☐ MTBE ☐ [METHOD 8260] · TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ · GRO 8015 ☐ DRO 8015 ☐ · VOC 8260 ☐ VOC 624.1 ☐ · SVOC 8270 ☐ SVOC 625.1 ☐ · PAH 8270 ☐ HOLD PAH ☐ · PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ · PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ · HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ · METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ · RCRA 8 ☐ TX11 ☐ _____ · ANIONS 300 ☐ 9056 ☐ _____ · TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ · TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ · RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐

Relinquished By: (Sign) DATE/TIME 7-24-24 10:46 Received by:
Relinquished By: (Sign) DATE/TIME Received by:
Relinquished By: (Sign) DATE/TIME Received by:

TURN AROUND TIME
(CALL FIRST FOR RUSH)
RUSH-1 DAY☐ RUSH-2 DAY☐
RUSH-3 DAY☐
NORMAL ☑ OTHER ☐
DUE DATE _____ ☐

LAB USE ONLY **THERMO #:** 78
RECEIVING TEMP (°C): 0.8°C
IF >6°C, ARE SAMPLES ON ICE AND JUST COLLECTED? YES / NO
CUSTODY SEALS ON ICE CHEST: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☑ HAND DELIVERED

☐ **DHL DISPOSAL @ $10.00 each**

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: CITY OF ROUND ROCK

Date Received: **7/24/2024**

Work Order Number: **2407240**

Received by: **KAO**

Checklist completed by: _____ 7/24/2024 (Signature / Date)

Reviewed by: KL 7/24/2024 (Initials / Date)

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1
Temp °C	0.8
Seal Intact	NP

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

DHL Analytical, Inc. **Date:** *31-Jul-24*

CLIENT: CITY OF ROUND ROCK
Project: West Plant Outfall
Lab Order: 2407240

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

E300 and Standard Methods.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Anions analysis by method E300 the matrix spike and matrix spike duplicate recoveries (2407233-03 MS/MSD) were slightly above control limits for Nitrate-N. This was due to matrix effect. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this analyte. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *31-Jul-24*

CLIENT: CITY OF ROUND ROCK
Project: West Plant Outfall
Lab Order: 2407240

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2407240-01	West Plant Outfall		07/23/24 11:59 PM	07/24/2024

DHL Analytical, Inc.

Date: *31-Jul-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	West Plant Outfall
Project:	West Plant Outfall	**Lab ID:**	2407240-01
Project No:		**Collection Date:**	07/23/24 11:59 PM
Lab Order:	2407240	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
ANIONS BY IC METHOD - WATER		**E300**					Analyst: **KES**
Chloride	211	3.00	10.0		mg/L	10	07/24/24 10:16 PM
Nitrate-N	12.6	0.100	0.500		mg/L	1	07/24/24 08:46 PM
Sulfate	47.4	1.00	3.00		mg/L	1	07/24/24 08:46 PM
ALKALINITY		**M2320 B**					Analyst: **KES**
Alkalinity, Bicarbonate (As CaCO3)	128	10.0	20.0		mg/L @ pH 4.53	1	07/29/24 01:17 PM
Alkalinity, Carbonate (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.53	1	07/29/24 01:17 PM
Alkalinity, Hydroxide (As CaCO3)	<10.0	10.0	20.0		mg/L @ pH 4.53	1	07/29/24 01:17 PM
Alkalinity, Total (As CaCO3)	128	10.0	20.0		mg/L @ pH 4.53	1	07/29/24 01:17 PM
TOTAL DISSOLVED SOLIDS		**M2540C**					Analyst: **KER**
Total Dissolved Solids (Residue, Filterable)	625	10.0	10.0		mg/L	1	07/25/24 04:20 PM

Qualifiers:	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2407240
Project: West Plant Outfall

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_240724D

The QC data in batch 116389 applies to the following samples: 2407240-01A

Sample ID: **MB-116389** Batch ID: **116389** TestNo: **E300** Units: **mg/L**
SampType: **MBLK** Run ID: **IC2_240724D** Analysis Date: **7/24/2024 10:52:39 AM** Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<0.300	1.00								
Nitrate-N	<0.100	0.500								
Sulfate	<1.00	3.00								

Sample ID: **LCS-116389** Batch ID: **116389** TestNo: **E300** Units: **mg/L**
SampType: **LCS** Run ID: **IC2_240724D** Analysis Date: **7/24/2024 11:10:39 AM** Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110			
Nitrate-N	5.12	0.500	5.000	0	102	90	110			
Sulfate	30.4	3.00	30.00	0	101	90	110			

Sample ID: **LCSD-116389** Batch ID: **116389** TestNo: **E300** Units: **mg/L**
SampType: **LCSD** Run ID: **IC2_240724D** Analysis Date: **7/24/2024 11:28:39 AM** Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.1	1.00	10.00	0	101	90	110	0.035	20	
Nitrate-N	5.12	0.500	5.000	0	102	90	110	0.004	20	
Sulfate	30.6	3.00	30.00	0	102	90	110	0.627	20	

Sample ID: **2407233-03EMS** Batch ID: **116389** TestNo: **E300** Units: **mg/L**
SampType: **MS** Run ID: **IC2_240724D** Analysis Date: **7/24/2024 9:40:40 PM** Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	3390	100	2000	1313	104	90	110			
Nitrate-N	521	50.0	451.6	0	115	90	110			S
Sulfate	2780	300	2000	610.6	108	90	110			

Sample ID: **2407233-03EMSD** Batch ID: **116389** TestNo: **E300** Units: **mg/L**
SampType: **MSD** Run ID: **IC2_240724D** Analysis Date: **7/24/2024 9:58:40 PM** Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	3420	100	2000	1313	105	90	110	0.832	20	
Nitrate-N	526	50.0	451.6	0	116	90	110	0.977	20	S
Sulfate	2800	300	2000	610.6	109	90	110	0.795	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2407240
Project: West Plant Outfall

ANALYTICAL QC SUMMARY REPORT

RunID: IC2_240724D

Sample ID: **2407240-01AMS**	Batch ID: **116389**	TestNo: **E300**	Units: **mg/L**
SampType: **MS**	Run ID: **IC2_240724D**	Analysis Date: **7/24/2024 10:34:40 PM**	Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	399	10.0	200.0	210.7	94.3	90	110			
Nitrate-N	60.6	5.00	45.16	11.80	108	90	110			
Sulfate	248	30.0	200.0	47.39	100	90	110			

Sample ID: **2407240-01AMSD**	Batch ID: **116389**	TestNo: **E300**	Units: **mg/L**
SampType: **MSD**	Run ID: **IC2_240724D**	Analysis Date: **7/24/2024 10:52:41 PM**	Prep Date: **7/24/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	399	10.0	200.0	210.7	93.9	90	110	0.178	20	
Nitrate-N	60.6	5.00	45.16	11.80	108	90	110	0.029	20	
Sulfate	249	30.0	200.0	47.39	101	90	110	0.410	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2407240
Project: West Plant Outfall

ANALYTICAL QC SUMMARY REPORT

RunID: **TITRATOR_240729A**

The QC data in batch 116448 applies to the following samples: 2407240-01A

Sample ID: **MB-116448** Batch ID: **116448** TestNo: **M2320 B** Units: **mg/L @ pH 4.49**
SampType: **MBLK** Run ID: **TITRATOR_240729A** Analysis Date: **7/29/2024 10:10:00 AM** Prep Date: **7/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0								
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0								
Alkalinity, Total (As CaCO3)	<10.0	20.0								

Sample ID: **LCS-116448** Batch ID: **116448** TestNo: **M2320 B** Units: **mg/L @ pH 4.51**
SampType: **LCS** Run ID: **TITRATOR_240729A** Analysis Date: **7/29/2024 10:16:00 AM** Prep Date: **7/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	50.5	20.0	50.00	0	101	74	129			

Sample ID: **LCSD-116448** Batch ID: **116448** TestNo: **M2320 B** Units: **mg/L @ pH 4.5**
SampType: **LCSD** Run ID: **TITRATOR_240729A** Analysis Date: **7/29/2024 10:21:00 AM** Prep Date: **7/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	50.6	20.0	50.00	0	101	74	129	0.316	20	

Sample ID: **2407221-03B-DUP** Batch ID: **116448** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **DUP** Run ID: **TITRATOR_240729A** Analysis Date: **7/29/2024 12:31:00 PM** Prep Date: **7/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	65.8	20.0	0	66.50				1.06	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	65.8	20.0	0	66.50				1.06	20	

Sample ID: **2407241-03B-DUP** Batch ID: **116448** TestNo: **M2320 B** Units: **mg/L @ pH 4.52**
SampType: **DUP** Run ID: **TITRATOR_240729A** Analysis Date: **7/29/2024 12:59:00 PM** Prep Date: **7/29/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	29.7	20.0	0	28.50				4.12	20	
Alkalinity, Carbonate (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Hydroxide (As CaCO3)	<10.0	20.0	0	0				0	20	
Alkalinity, Total (As CaCO3)	29.7	20.0	0	28.50				4.12	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: CITY OF ROUND ROCK
Work Order: 2407240
Project: West Plant Outfall

ANALYTICAL QC SUMMARY REPORT

RunID: WC_240725A

The QC data in batch 116415 applies to the following samples: 2407240-01A

Sample ID: **MB-116415**	Batch ID: **116415**	TestNo: **M2540C**	Units: **mg/L**
SampType: **MBLK**	Run ID: **WC_240725A**	Analysis Date: **7/25/2024 4:20:00 PM**	Prep Date: **7/25/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	<10.0	10.0								

Sample ID: **LCS-116415**	Batch ID: **116415**	TestNo: **M2540C**	Units: **mg/L**
SampType: **LCS**	Run ID: **WC_240725A**	Analysis Date: **7/25/2024 4:20:00 PM**	Prep Date: **7/25/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	763	10.0	745.6	0	102	90	113			

Sample ID: **2407233-03E-DUP**	Batch ID: **116415**	TestNo: **M2540C**	Units: **mg/L**
SampType: **DUP**	Run ID: **WC_240725A**	Analysis Date: **7/25/2024 4:20:00 PM**	Prep Date: **7/25/2024**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	2960	50.0	0	3035				2.50	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

September 03, 2024

Ryan Bornn
CITY OF ROUND ROCK
3400 Sunrise Rd.
ROUND ROCK, Texas 78665
TEL: (512) 218-5561
FAX:

Order No.: 2408318

RE: West Plant EFF TKN

Dear Ryan Bornn:

DHL Analytical, Inc. received 1 sample(s) on 8/27/2024 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211 - TX-C24-00120

Table of Contents

DHL ANALYTICAL

2300 Double Creek Dr. Round Rock, TX 78664
Phone 512.388.8222
Web: **www.dhlanalytical.com**
Email: **login@dhlanalytical.com**

CHAIN-OF-CUSTODY

PAGE _____ OF _____

CLIENT: CORR ESL
ADDRESS: 5200 N IH35 Round Rock TX 78681
PHONE: _____ EMAIL: rbornn@roundrocktexas.gov
DATA REPORTED TO: Ryan Bornn
ADDITIONAL REPORT COPIES TO: _____

DATE: 8-27-24
PO#: _____
PROJECT LOCATION OR NAME: _____
CLIENT PROJECT # West Plant Eff TKN COLLECTOR: _____

LABORATORY USE ONLY
DHL WORKORDER #: 2408318

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

W=WATER L=LIQUID S=SOLID SO=SOLID SE=SEDIMENT P=PAINT SL=SLUDGE

Field Sample I.D.	Lab Use Only DHL Lab #	Collection Date	Collection Time	Matrix	Container Type	# of Containers	PRESERVATION: HCL	HNO_3	H_2SO_4	NaOH ☐ Zn Acetate ☐	ICE ☑ UNPRESERVED ☑	ANALYSES	FIELD NOTES
West Plant Effluent	01	8-26-24	2359	W	P	1					✓	TKN ✓	

ANALYSES: BTEX ☐ MTBE ☐ [METHOD 8260] · TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ · GRO 8015 ☐ DRO 8015 ☐ · VOC 8260 ☐ VOC 624.1 ☐ · SVOC 8270 ☐ SVOC 625.1 ☐ · PAH 8270 ☐ HOLD PAH ☐ · PEST 8270 ☐ 625.1 ☐ O-P PEST 8270 ☐ · PCB 8082 ☐ 608.3 ☐ PCB 8270 ☐ 625.1 ☐ · HERB 8321 ☐ T PHOS ☐ AMMONIA ☐ · METALS 6020 ☐ 200.8 ☐ DISS. METALS ☐ · RCRA 8 ☐ TX11 ☐ _____ · pH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ · ANIONS 300 ☐ 9056 ☐ _____ · TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ · TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ · RCI ☐ IGN ☐ DGAS ☐ OIL&GREASE ☐ · TDS ☐ TSS ☐ % MOIST ☐ CYANIDE ☐

Relinquished By: (Sign)	DATE/TIME	Received by:
	8-27-24	
Relinquished By: (Sign)	DATE/TIME	Received by:
	8-27-24/1135	
Relinquished By: (Sign)	DATE/TIME	Received by:

TURN AROUND TIME (CALL FIRST FOR RUSH)
RUSH-1 DAY ☐ RUSH-2 DAY ☐
RUSH-3 DAY ☑
NORMAL ☐ OTHER ☐
DUE DATE _____ ☐

LABORATORY USE ONLY
RECEIVING TEMP (°C): 1.0°C THERM #:
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☑ NOT USED
CARRIER: ☐ LSO ☐ FEDEX ☐ UPS ☐ COURIER ☐ OTHER
☑ HAND DELIVERED

☐ **DHL DISPOSAL @ 5.00 each** ☐ **Return**

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name: **CITY OF ROUND ROCK**

Date Received: **8/27/2024**

Work Order Number: **2408318**

Received by: **KAO**

Checklist completed by: Signature 8/27/2024 Date

Reviewed by: SH Initials 8/27/2024 Date

Carrier name: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑ NA ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☑	NA ☐ LOT # 13171
	Adjusted? Yes		Checked by SM
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted?		Checked by
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Cooler #	1
Temp °C	1.0
Seal Intact	NP

Any No response must be detailed in the comments section below.

Client contacted: Date contacted: Person contacted:

Contacted by: Regarding:

Comments: The bottle was unpreserved upon receiving the sample for testing.

Corrective Action: We proceeded to acidify the sample with H2SO4 Lot#17171 in Login on 8/27/24.

DHL Analytical, Inc. **Date:** *03-Sep-24*

CLIENT: CITY OF ROUND ROCK
Project: West Plant EFF TKN
Lab Order: 2408318

CASE NARRATIVE

The TKN analysis was sub-contracted to SPL.

DHL Analytical, Inc.

Date: *03-Sep-24*

CLIENT: CITY OF ROUND ROCK
Project: West Plant EFF TKN
Lab Order: 2408318

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2408318-01	West Plant Effluent		08/26/24 11:59 PM	08/27/2024

DHL Analytical, Inc.

Date: *03-Sep-24*

CLIENT:	CITY OF ROUND ROCK	**Client Sample ID:**	West Plant Effluent
Project:	West Plant EFF TKN	**Lab ID:**	2408318-01
Project No:		**Collection Date:**	08/26/24 11:59 PM
Lab Order:	2408318	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TKN-TOTAL KJELDAHL NITROGEN (K)		**E351.2**					Analyst: **SUB**
Total Kjeldahl Nitrogen	4.73	0.00712	0.0500		mg/L	1	09/03/24 07:13 AM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	C	Sample Result or QC discussed in the Case Narrative
	DF	Dilution Factor	E	TPH pattern not Gas or Diesel Range Pattern
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	RL	Reporting Limit
	S	Spike Recovery outside control limits	N	Parameter not NELAP certified

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1115983

DHL1-C

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Printed 09/03/2024
10:06

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

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

SPL The Science of Sure

1

LABORATORY DATA PACKAGE COVER PAGE

Project
1115983

AQUEOUS

This data package consists of:

☑ This signature page, the laboratory review checklist, and the following reportable data:

☑ R1 Field chain-of-custody documentation;

☑ R2 Sample identification cross-reference;

☑ R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10
- b) dilution factors,
- c) preparation methods,
- d) cleanup methods, and
- e) if required for the project, tentatively identified compounds (TICs).

☑ R4 Surrogate recovery data including: (R4 - R8: See QC Report)
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

☑ R5 Test reports/summary forms for blank samples;

☑ R6 Test reports/summary forms for laboratory control samples (LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

☑ R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits

☑ R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) the amount of analyte measured in the duplicate,
- b) the calculated RPD, and
- c) the laboratory's QC limits for analytical duplicates.

☑ R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix; See Results Summary

☑ R10 Other problems or anomalies.

☑ The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Name	Signature	Official Title	Date
Bill Peery (WJP)	Bill Peery	VP Technical Services	9/3/2024

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

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*

1
2

SAMPLE CROSS REFERENCE

Project
1115983

Printed 9/3/2024
AQUEOUS

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Sample	Sample ID	Taken	Time	Received
2329354	*WEST PLANT EFFLUENT*	08/26/2024	11:59:00	08/28/2024

Bottle 01 Client supplied H2SO4 plastic
Bottle 02 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1135771) Volume: 20.00000 mL <== Derived from 01 (20 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 351.2 2	02	1135771	08/29/2024	1136222	09/03/2024

Email: Kilgore.ProjectManagement@spllabs.com

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R: 24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

SAMPLE PREPARATION

09/03/2024 Page 1 of 1

Project
1115983

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Default

Prep Set # 1135771 08/29/2024

Analytical Set # 1136222 **EPA 351.2 2** 09/03/2024

Sample	Sample ID	Bottle
2329354	WEST PLANT EFFLUENT	02

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HOLDING TIME COMPLIANCE

Project
1115983

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

AQUEOUS

Name	Method	Taken:	Received	Analyzed	Hold	Elapsed
	2329354	8/26/24 11:59	08/28/2024			
TKN Block Digestion	EPA 351.2, Rev 2.0			8/29/24 7:38	28.00	2.00
Total Kjeldahl Nitrogen	EPA 351.2 2			9/3/24 7:13	28.00	7.00

Central TX Region: 8101 Cameron Rd - Ste 305 Austin TX 78754

Email: Kilgore.ProjectManagement@spllabs.com

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Project
1115983

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Printed: 09/03/2024

RESULTS

Sample Results

2329354 **WEST PLANT EFFLUENT** Received: 08/28/2024

Non-Potable Water | Collected by: Client | DHL Analytical - SPL | PO:
Taken: 08/26/2024 11:59:00

EPA 351.2 2 Prepared: 1135771 08/29/2024 07:38:09 Analyzed 1136222 09/03/2024 07:13:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**4.73**	**mg/L**	0.050		**7727-37-9**	02

Sample Preparation

2329354 **WEST PLANT EFFLUENT** Received: 08/28/2024

08/26/2024

Prepared: 08/28/2024 13:28:20 Calculated 08/28/2024 13:28:20 CAL

z	**Environmental Fee (per Project)**	**Verified**	

Prepared: 09/03/2024 09:20:00 Analyzed 09/03/2024 09:20:00 TWV

z	**Level IV Data Review**	**Completed**	

EPA 351.2, Rev 2.0 Prepared: 1135771 08/29/2024 07:38:09 Analyzed 1135771 08/29/2024 07:38:09 MEG

NELAC	**TKN Block Digestion**	**20/20**	**ml**	01

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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SPL
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DHL1-C

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Project
1115983

Printed: 09/03/2024

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

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
1115983

DHL1

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Round Rock, TX 78664

AQUEOUS

CAS	Parameter	Results	MDL	SDL	MQL	MQLAdj	Flag	Units	Target	Bottle	Dilute
Non-Potable Water	**Distillations**									**EPA 351.2 2**	
2329354	**WEST PLANT EFFLUENT**										
		Collection:	08/26/2024	11:59:00	Client				*Received:*	08/28/2024	
	Prepared: ***1135771***										
				Analyzed:	***1136222***			9/3/24	07:13:00		
7727-37-9	**Total Kjeldahl Nitrogen**	**4.73**	0.00712	0.00712	0.050	0.050		**mg/L**		02	1.00

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)
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

Bill Peery

Bill Peery, MS, VP Technical Services

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*

QC GROUPS

Project
1115983

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

	Test	*QCgroup*	*Analyzed*	
	TKDL	1,135,771	08/29/2024	
7051	Astoria2 Autoanalyzer	Astoria		200354
	TKN	1,136,222	09/03/2024	

QUALITY CONTROL

DHL1-C

DHL Analytical - SPL
John Dupont
2300 Double Creek Dr
Round Rock, TX 78664

Project
1115983

Printed 09/03/2024

Analytical Set 1136222 EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1135771	ND	0.00712	0.050	mg/L	126722462

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.31	5.00	mg/L	106	90.0 - 110	126722461
Total Kjeldahl Nitrogen	5.29	5.00	mg/L	106	90.0 - 110	126722469

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2329539	0.509	0.500	mg/L	1.78	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	4.83	5.00	mg/L	96.6	90.0 - 110	126722460

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1135771	5.37	5.01	5.00	90.0 - 110	107	100	mg/L	6.94	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2329539	5.87	0.500	5.00	mg/L	107	80.0 - 120	126722467

* 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); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.)

1115983 CoC Print Group 001 of 001

DHL Analytical, Inc.
2300 Double Creek Drive
Round Rock, TX 78664
TEL: (512) 388-8222 FAX:

CHAIN-OF-CUSTODY RECORD

Work Order: 2408318

Subcontractor:

SPL Laboratory Kilgore
2600 Dudley Rd
Kilgore, TX 75662

TEL: (903) 984-0551
FAX:
Acct #:

J329384

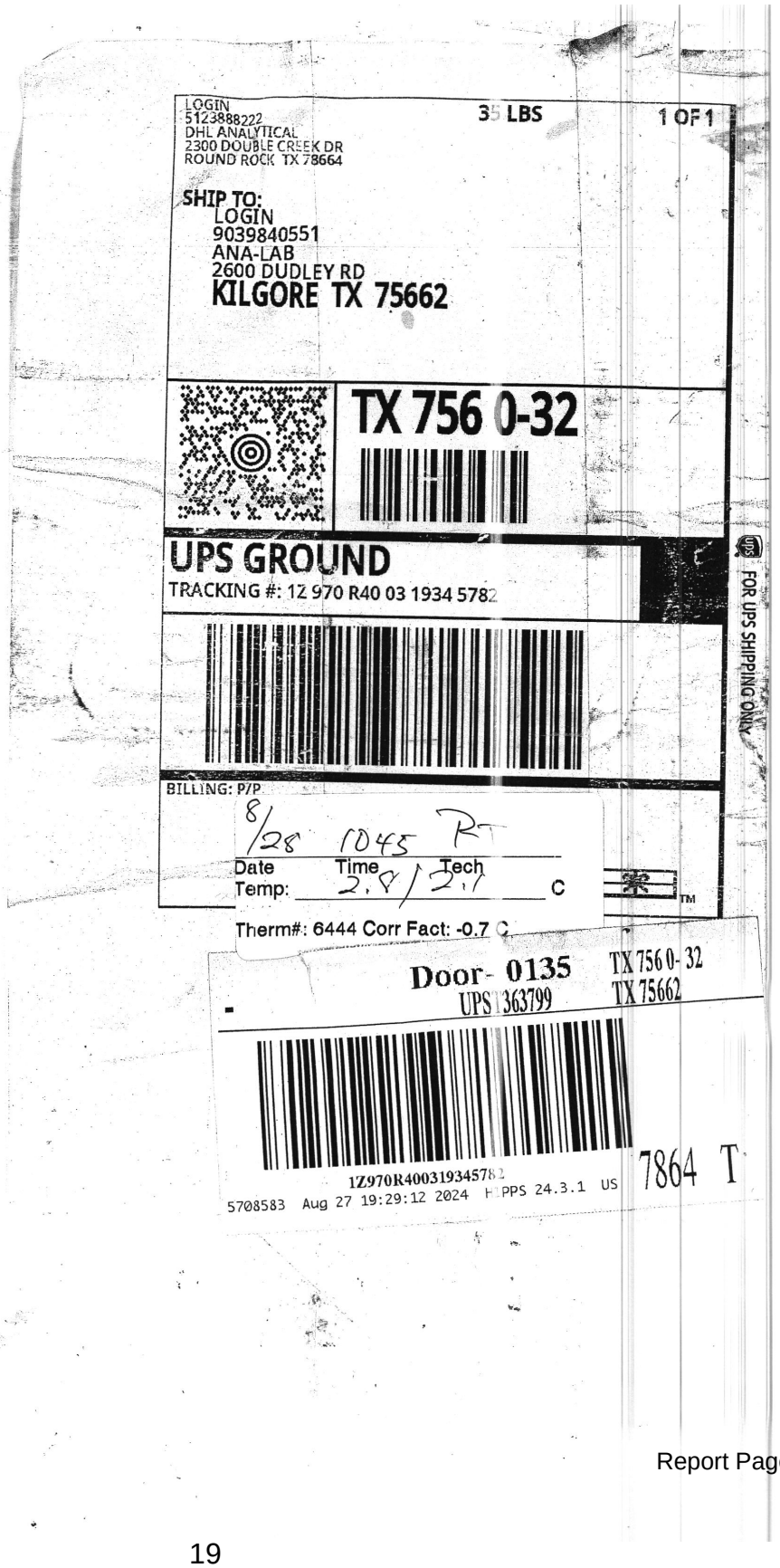
27-Aug-24

Sample ID	Matrix	DHL#	Date Collected	Bottle Type	Requested Tests					
					TKN					
					E351.2					
West Plant Effluent	Aqueous	01A	08/26/24 11:59 PM	250HDPEH2SO4	1					

General Comments:

Please analyze these samples with a 1 DAY RUSH Turnaround Time.
Quality Control Package Needed: Standard - SEND PDF & Excel EDD Please
EMAIL report to both cac@dhlanalytical.com & dupont@dhlanalytical.com
Call John DuPont if you have questions.

		Date/Time		Date/Time
Relinquished by:	JMendez	8/27/24 5:00	Received by:	
Relinquished by:			Received by:	


LOGIN
5123888222
DHL ANALYTICAL
2300 DOUBLE CREEK DR
ROUND ROCK TX 78664
35 LBS
1 OF 1
SHIP TO:
LOGIN
9039840551
ANA-LAB
2600 DUDLEY RD
KILGORE TX 75662
TX 756 0-32
UPS GROUND
TRACKING #: 1Z 970 R40 03 1934 5782
FOR UPS SHIPPING ONLY
BILLING: P/P
8/28 1045 RT
Date Time Tech
Temp: 2.8 / 2.1 C
Therm#: 6444 Corr Fact: -0.7 C
Door- 0135
UPS 363799
TX 756 0- 32
TX 75662
1Z970R40031934578
5708583 Aug 27 19:29:12 2024 HPPS 24.3.1 US
7864 T

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 09/03/2024					
Project Name: Default			Laboratory Job (Project) Number: 1115983					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1135771 QCgroup: 1136222					
#	A	Description	Yes	No	NA	NR	ER#	
R01	OI	**Chain-of-Custody (C-O-C)**						
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?				X	1	
		Were all departures from standard conditions described in the exception report?	X					
R02	OI	**Sample and Quality Control (QC) Identification**						
		Are all field sample ID numbers cross referenced to the laboratory ID numbers?	X					
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X					
R03	OI	**Test Reports**						
		Were all samples prepared and analyzed within holding times?	X					
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X					
		Were calculations checked by a peer or supervisor?	X					
		Were all analyte identifications checked by a peer or supervisor?	X					
		Were sample quantitation limits reported for all analytes not detected?	X					
		Were all results for soil and sediment samples reported on a dry weight basis?			X			
		Were % moisture (or solids) reported for all soil and sediment samples?			X			
		If required for the project, tentatively identified compounds reported?			X			
R04	O	**Surrogate Recovery Data**						
		Were surrogates added prior to extraction?			X			
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X			
R05	OI	**Test Reports/Summary Forms for Blank Samples**						
		Were appropriate type(s) of blanks analyzed?	X					
		Were blanks analyzed at the appropriate frequency?	X					
		Were blank concentrations < MQL?	X					
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X					
R06	OI	**Laboratory Control Samples (LCS)**						
		Were all chemicals of concern included in the LCS?			X			
		Was each LCS taken though the entire analytical procedure, including prep and cleanup steps?			X			
		Were LCSs analyzed at the required frequency?			X			
		Were LCS (and LCS duplicate, if applicable) %Rs within the laboratory QC limits?	X					
		Does the detectability data document the laboratory's capability to detect the chemicals of concern at the MDL used to calculate the SQLs?	X					
		Was the LCS duplicate relative percent difference within QC limits?	X					
R07		**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) data**						
		Were the project/method specified analytes included in the MS and MSD?	X					
		Were MS/MSD analyzed at the appropriate frequency?	X					
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X					
		Were MS/MSD RPDs within laboratory QC limits?			X			
R08	OI	**Analytical Duplicate Data**						
		Were appropriate analytical duplicates analyzed for each matrix?	X					
		Were analytical duplicates analyzed at the appropriate frequency?	X					
		Were RPDs or relative standard deviations within the laboratory QC limits?	X					
R09	OI	**Method Quantitation Limits (MQLs)**						
		Are the MQLs for each method analyte included in the laboratory data package?	X					
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X					
		Are unadjusted MQLs included in the laboratory data package?	X					
R10	OI	**Other Problems/Anomalies**						
		Are all known problems/anomalies/special condition noted in this LRC and ER?	X					
		Were all necessary corrective actions preformed for the reported data?	X					
		Was applicable and available technology used to lower the SQL and minimize the matrix interference effects on the sample results?	X					

Appendix A:		Laboratory Review Checklist: Reportable Data						
Laboratory Name: SPL Kilgore			LRC Date: 09/03/2024					
Project Name: Default			Laboratory Job (Project) Number: 1115983					
Reviewer Name: Bill Peery (WJP)			PrepSet: 1135771 QCgroup: 1136222					
#	A	Description	Yes	No	NA	NR	ER#	
S01	OI	**Initial Calibration (ICAL)**						
		Were response factors and/or relative response factors for each analyte within QC limits?	X					
		Were percent RSDs or correlation coefficient criteria met?	X					
		Was the number of standards recommended in the method used for all analytes?	X					
		Were all points generated between the lowest and highest standard used to calculate the curve?	X					
		Are ICAL data available for all instruments used?	X					
		Has the initial calibration curve been verified using an appropriate second source standard?	X					
S02	OI	**Initial and Continuing Calibration Verification (ICCV and CCV) and Continuing Calibration**						
		Was the CCV analyzed at the method-required frequency?	X					
		Were percent differences for each analyte within the method-required QC limits?	X					
		Was the ICAL curve verified for each analyte?	X					
		Was the absolute value of the analyte concentration in the inorganic CCB < MQL?			X			
S03	O	**Mass Spectral Tuning**						
		Was the appropriate compound for the method used for tuning?			X			
		Were ion abundance data within the method-required QC limits?			X			
S04	O	**Internal Standards (IS)**						
		Were IS area counts and retention times within the method-required QC limits?			X			
S05	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section . . .)**						
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X					
		Were data associated with manual integrations flagged on the raw data?	X					
S06	O	**Dual Column Confirmation**						
		Did dual column confirmation results meet the method-required QC?			X			
S07	O	**Tentatively Identified Compounds (TICs)**						
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X			
S08	I	**Interference Check Sample (ICS) Results**						
		Were precent recoveries within method QC limits?			X			
S09	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**						
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X			
S10	OI	**Method Detection Limit (MDL) Studies**						
		Was a MDL study performed for each reported analyte?	X					
		Is the MDL either adjusted or suppported by the analysis of detectability check samples?	X					
S11	OI	**Proficiency Test Reports**						
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X					
S12	OI	**Standards Documentation**						
		Are all standards used in the analyses NIST-traceable or obtained from other apropriate sources?	X					
S13	IO	**Compound/Analyte Identification Procedures**						
		Are the procedures for compound/analyte identification documented?	X					
S14	OI	**Demonstration of Analyst Compentency (DOC)**						
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC Section 4?	X					
		Is documentation of the analyst's competency up-to-date and on file?	X					
S15	OI	**Verification/Validation Documentation Methods (NELAC Chapter 5 or ISO/IEC Section 5)**						
		Are all the methods used to generate the data documented, verified and validated, where applicable?	X					
S16	OI	**Laboratory Standard Operating Procedures (SOPs)**						
		Are laboratory SOPs current and on file for each method performed?	X					

1. Items identified by the letter "R" must be included on the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention
2. O = organic analyses; I = ionorganic analyses (and general chemistry, when applicable);
3. N/A = Not applicable;
4. NR = Not reviewed
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Appendix A: (cont'd):	Laboratory Review Checklist: Exception Reports		
Laboratory Name:	SPL Kilgore	LRC Date:	09/03/2024
Project Name:	Default	Laboratory Job (Project) Number:	1115983
Reviewer Name:	Bill Peery (WJP)	PrepSet: 1135771 QCgroup:	1136222

ER#	Description
1	Bottles were reviewed at login. Please see the chain of custody record for sample receipt details.

1 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked on the LRC)

ATTACHMENT G

Summary of WET Test Results
Wks 5.0 Section 3

ATTACHMENT G
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
SUMMARY OF WET TEST RESULTS

7-DAY CHRONIC BIOMONITORING

Testing Period	Test Species	IC25 Lethal	IC25 Sublethal
Q2 2022	Pimephales promelas	>84%	>84%
Q2 2022	Ceriodaphnia dubia	>84%	>84%
Q3 2022	Pimephales promelas	>84%	>84%
Q3 2022	Ceriodaphnia dubia	>84%	>84%
Q4 2022	Pimephales promelas	>84%	>84%
Q4 2022	Ceriodaphnia dubia	>84%	>84%
Q1 2023	Pimephales promelas	>84%	>84%
Q1 2023	Ceriodaphnia dubia	>84%	>84%
Q2 2023	Pimephales promelas	>84%	>84%
Q2 2023	Ceriodaphnia dubia	>84%	>84%
Q3 2023	Pimephales promelas	>84%	>84%
Q3 2023	Ceriodaphnia dubia	>84%	>84%
Q4 2023	Pimephales promelas	>84%	>84%
Q4 2023	Ceriodaphnia dubia	>84%	>84%
4/2/2024	Pimephales promelas	>84%	>84%
4/2/2024	Ceriodaphnia dubia	>84%	>84%

24-HOUR ACUTE BIOMONITORING

Testing Period	Test Species	LC 50 % Effluent
Jan-Jun 2022	Pimephales promelas	>100%
Jan-Jun 2022	D. Pulex	>100%
Jul-Dec 2022	Pimephales promelas	>100%
Jul-Dec 2022	D. Pulex	>100%
Jan-Jun 2023	Pimephales promelas	>100%
Jan-Jun 2023	D. Pulex	>100%
Jul-Dec 2023	Pimephales promelas	>100%
Jul-Dec 2023	D. Pulex	>100%
Jan-Jun 2024	Pimephales promelas	>100%
Jan-Jun 2024	D. Pulex	>100%

ATTACHMENT H

Effluent Parameters Above the MAL
Wks 6.0 Section 2.C

ATTACHMENT H
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
EFFLUENT PARAMETERS ABOVE THE MAL

Pollutant	Concentration	MAL	Units	Date
2,4,5-TP (Silvex)	0.914	0.3	µg/L	05/08/2024
2,4,6-Trichlorophenol	71.3	10	µg/L	01/27/2022
2,4-D	0.776	0.7	µg/L	05/08/2024
Aluminum	84.9	2.5	µg/L	12/09/2020
Aluminum	65.7	2.5	µg/L	01/27/2021
Aluminum	163	2.5	µg/L	04/13/2021
Aluminum	88.0	2.5	µg/L	07/28/2021
Aluminum	499	2.5	µg/L	10/12/2021
Aluminum	167	2.5	µg/L	01/27/2022
Aluminum	103	2.5	µg/L	05/18/2022
Aluminum	20.1	2.5	µg/L	06/09/2022
Aluminum	119	2.5	µg/L	07/28/2022
Aluminum	31.6	2.5	µg/L	08/11/2022
Aluminum	97.5	2.5	µg/L	11/18/2022
Aluminum	255	2.5	µg/L	02/09/2023
Aluminum	47.7	2.5	µg/L	04/19/2023
Aluminum	68.6	2.5	µg/L	07/13/2023
Aluminum	61.2	2.5	µg/L	10/18/2023
Aluminum	31.8	2.5	µg/L	02/28/2024
Aluminum	27.1	2.5	µg/L	05/08/2024
Arsenic	<2	0.5	µg/L	05/08/2024
Arsenic, Total	0.96	0.5	µg/L	12/09/2020
Arsenic, Total	1.1	0.5	µg/L	01/27/2021
Arsenic, Total	1.08	0.5	µg/L	04/13/2021
Arsenic, Total	1.3	0.5	µg/L	07/28/2021
Arsenic, Total	1.64	0.5	µg/L	10/12/2021
Arsenic, Total	0.812	0.5	µg/L	01/27/2022
Arsenic, Total	1.03	0.5	µg/L	05/18/2022
Arsenic, Total	0.66	0.5	µg/L	06/09/2022
Arsenic, Total	1.39	0.5	µg/L	07/28/2022
Arsenic, Total	1.3	0.5	µg/L	08/11/2022
Arsenic, Total	1.64	0.5	µg/L	10/18/2023
Arsenic, Total	1.01	0.5	µg/L	02/28/2024
Barium	24.3	3	µg/L	12/09/2020
Barium	27.3	3	µg/L	01/27/2021
Barium	32.8	3	µg/L	04/13/2021
Barium	28.4	3	µg/L	07/28/2021
Barium	29.0	3	µg/L	10/12/2021
Barium	29.0	3	µg/L	01/27/2022
Barium	28.4	3	µg/L	05/18/2022
Barium	33.3	3	µg/L	06/09/2022
Barium	24	3	µg/L	07/28/2022

ATTACHMENT H
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
EFFLUENT PARAMETERS ABOVE THE MAL

Pollutant	Concentration	MAL	Units	Date
Barium	36.6	3	µg/L	08/11/2022
Barium	19.3	3	µg/L	11/18/2022
Barium	35.5	3	µg/L	02/09/2023
Barium	16.8	3	µg/L	04/19/2023
Barium	19.4	3	µg/L	07/13/2023
Barium	38.3	3	µg/L	10/18/2023
Barium	44.0	3	µg/L	02/28/2024
Barium	39.7	3	µg/L	05/08/2024
Copper	4.19	2	µg/L	05/08/2024
Copper, Total	8.36	2	µg/L	12/09/2020
Copper, Total	5.4	2	µg/L	01/27/2021
Copper, Total	10.0	2	µg/L	04/13/2021
Copper, Total	4.63	2	µg/L	07/28/2021
Copper, Total	17.8	2	µg/L	10/12/2021
Copper, Total	11.7	2	µg/L	01/27/2022
Copper, Total	6.09	2	µg/L	05/18/2022
Copper, Total	6.91	2	µg/L	06/09/2022
Copper, Total	9.03	2	µg/L	07/28/2022
Copper, Total	7.98	2	µg/L	08/11/2022
Copper, Total	5.46	2	µg/L	10/18/2023
Copper, Total	3.1	2	µg/L	02/28/2024
Cyanide, Available	16.3	10	µg/L	10/18/2023
Dicofol	60.7	1	µg/L	06/09/2022
Fluoride	666	500	µg/L	12/09/2020
Fluoride	594	500	µg/L	10/12/2021
Fluoride	535	500	µg/L	01/27/2022
Fluoride	633	500	µg/L	07/28/2022
Fluoride	709	500	µg/L	04/19/2023
Lead, Total	0.954	0.5	µg/L	10/12/2021
Lead, Total	0.772	0.5	µg/L	01/27/2022
Mercury, Total	0.00522	0.005	µg/L	04/13/2021
Mercury, Total	0.015	0.005	µg/L	01/27/2022
Mercury, Total	0.009	0.005	µg/L	05/18/2022
Mercury, Total	0.006	0.005	µg/L	07/28/2022
Nickel	<3	2	µg/L	05/08/2024
Nickel, Total	2.18	2	µg/L	01/27/2022
Nickel, Total	2.04	2	µg/L	05/18/2022
Nickel, Total	2.06	2	µg/L	06/09/2022
Nickel, Total	2.37	2	µg/L	07/28/2022
Nickel, Total	4.56	2	µg/L	08/11/2022
Nickel, Total	2.3	2	µg/L	10/18/2023
Nitrate-Nitrogen	13,600	100	µg/L	12/08/2020

ATTACHMENT H
CITY OF ROUND ROCK, CITY OF CEDAR PARK, CITY OF AUSTIN, AND CITY OF LEANDER
BRUSHY CREEK REGIONAL WEST WASTEWATER TREATMENT FACILITY
TPDES PERMIT RENEWAL APPLICATION
EFFLUENT PARAMETERS ABOVE THE MAL

Pollutant	Concentration	MAL	Units	Date
Nitrate-Nitrogen	21,800	100	µg/L	01/27/2021
Nitrate-Nitrogen	7,160	100	µg/L	04/13/2021
Nitrate-Nitrogen	4,350	100	µg/L	07/28/2021
Nitrate-Nitrogen	13,800	100	µg/L	10/12/2021
Nitrate-Nitrogen	12,100	100	µg/L	01/27/2022
Nitrate-Nitrogen	9,980	100	µg/L	06/09/2022
Nitrate-Nitrogen	8,450	100	µg/L	07/28/2022
Nitrate-Nitrogen	8,160	100	µg/L	08/11/2022
Nitrate-Nitrogen	15,400	100	µg/L	11/18/2022
Nitrate-Nitrogen	8,630	100	µg/L	02/09/2023
Nitrate-Nitrogen	16,400	100	µg/L	04/19/2023
Nitrate-Nitrogen	14,900	100	µg/L	07/13/2023
Nitrate-Nitrogen	13,900	100	µg/L	10/18/2023
Nitrate-Nitrogen	10,400	100	µg/L	05/08/2024
Nitrobenzene	66.1	10	µg/L	10/12/2021
Silver	<1	0.5	µg/L	05/08/2024
Zinc	36.1	5	µg/L	05/08/2024
Zinc, Total	67	5	µg/L	12/09/2020
Zinc, Total	63.2	5	µg/L	01/27/2021
Zinc, Total	61.1	5	µg/L	04/13/2021
Zinc, Total	63.4	5	µg/L	07/28/2021
Zinc, Total	93.4	5	µg/L	10/12/2021
Zinc, Total	75.5	5	µg/L	01/27/2022
Zinc, Total	31.8	5	µg/L	05/18/2022
Zinc, Total	90.3	5	µg/L	06/09/2022
Zinc, Total	51.6	5	µg/L	07/28/2022
Zinc, Total	86.6	5	µg/L	08/11/2022
Zinc, Total	79.4	5	µg/L	10/18/2023
Zinc, Total	41.7	5	µg/L	02/28/2024

0982-021-01

October 3, 2024

Ms. Rachel Ellis
Applications Review and Processing Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
PO Box 13087
Austin, Texas 78711

Re: City of Round Rock (CN600413181), City of Cedar Park (CN600407951), City of Austin (CN600135198), and City of Leander (CN600646012)
Brushy Creek Regional West Wastewater Treatment Facility (RN100822592)
Application for Renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001

Dear Ms. Ellis:

On behalf of City of Round Rock, City of Cedar Park, City of Austin, and City of Leander, Plummer Associates, Inc., (Plummer) has reviewed your letter sent via email on September 20, 2024, which transmitted the Notice of Deficiency (NOD) for the above-referenced permit. A copy of the letter is provided in Enclosure A. The following responses correspond to the numbered items in your letter.

Transfer Application:

1. Check number 10080175, issued by the City of Round Rock, was submitted to TCEQ on September 9th. Enclosure B provides the receipt from the TCEQ Cashier's Office.

2. The application provided the incorrect transfer date. Please see Enclosure C for a revised page 4 requesting that the transfer take place on September 9th (the date the application was submitted).

Administrative Report:

3. Please use the City of Round Rock's address for the permit: 221 East Main Street, Round Rock, Texas 78664. No changes to the other co-permittees' CDFs are necessary.

4. The Notice of Receipt of Application and Intent to Obtain a Water Quality Permit (NORI) has been reviewed. Revisions are provided below in red.

   APPLICATION. City of Round Rock, City of Austin, City of Cedar Park, and City of Leander, 221 East Main Street, Round Rock, Texas 78664, ~~has~~ have applied to the Texas Commission on

8911 N Capital of Texas Hwy,
Bldg 1 - Ste 1250
Austin, Texas 78759
Phone 512.452.5905
Plummer.com
TBPE Firm No. 13

Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001 (EPA I.D. No. TX0075167) to authorize the discharge of treated wastewater at a volume not to exceed an ~~daily~~ annual average flow of 3,000,000 gallons per day. The domestic wastewater treatment facility is located at 1116 East Austin Avenue, in the city of Round Rock, in Williamson County, Texas 78664. The discharge route is from the plant site is ~~directing~~ directly to Brushy Creek. TCEQ received this application on September 9, 2024. The permit application will be available for viewing and copying at the Utilities and Environmental Services Building, customer service desk, 3400 Sunrise Road, Round Rock, 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=-97.666111,30.513888&level=18

Further information may also be obtained from City of Round Rock, City of Austin, City of Cedar Park, and City of Leander at the address stated above or by calling Mr. Michael Thane, P.E., Director - Utilities and Environmental Services, City of Round Rock at 512-218-3236.

5. A Spanish translation of the above revised NORI is provided in Enclosure D.

We appreciate your attention to this application. If you have any questions, feel free to contact me at (512) 687-2154 or alewis@plummer.com.

Respectfully yours,

PLUMMER

Ashley Lewis

Ashley Lewis
Water Quality/Permitting Team Leader

Enclosures (4)

cc: Ms. Laurie Hadley, City of Round Rock, City Manger
Ms. Brenda Eivens, City of Cedar Park, City Manager
Ms. Shay Ralls, City of Austin, Director of Austin Water
Mr. Todd Parton, City of Leander, City Manager

SECTION 8. TRANSFER DATE

What is the date that the transfer of operator or ownership will occur? 9/9/2024

SECTION 9. REPORTING AND BILLING INFORMATION

A. Please identify the individual for receiving the reporting forms.

First and Last Name: Michael Thane

Title: Director – Utilities and Environmental Services Credentials: P.E.

Company Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd

City, State, and Zip Code: Round Rock, TX 78665

Phone Number: 512-218-3236 Fax Number: N/A

E-mail Address: mthane@roundrocktexas.gov

B. Please identify the individual for receiving the annual fee invoices.

First and Last Name: Michael Thane

Title: Director – Utilities and Environmental Services Credentials: P.E.

Company Name: City of Round Rock

Mailing Address: 3400 Sunrise Rd

City, State, and Zip Code: Round Rock, TX 78665

Phone Number: 512-218-3236 Fax Number: N/A

E-mail Address: mthane@roundrocktexas.gov

SECTION 10. DELINQUENT FEES OR PENALTIES

Do you owe fees to the TCEQ? Yes ☐ No ☒

Do you owe any penalties to the TCEQ? Yes ☐ No ☒

If you answered yes to either of the above questions, provide the amount owed, the type of fee or penalty, and an identifying number.

N/A

Basis2 Receipt Report by Endorsement Number

SEP-26-24 12:14 PM

Acct. #: WQP **Account Name:** WATER QUALITY PERMIT APPLICATION

Paid For	Endors. #	Ref #2	Paid In By	PayTyp	Chk #	Card#	Bank Slip	Tran.Date	Receipt Amnt.
BRUSHY CREEK REGIONAL WEST WWTF	M540209	10264001	ROUND ROCK, CITY OF	CK	10080174		BS00110805	09-SEP-24	$100.00

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. WQ0010264001

SOLICITUD. La ciudad de Round Rock, la cuidad de Austin, la ciudad de Cedar Park, y la ciudad de Leander, 221 East Main Street, Round Rock, Texas 78664**,** han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010264001 (EPA I.D. No. TX0075167) 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 anual de 3,000,000 galones por día. La planta está ubicada en 1116 East Austin Avenue, en la cuidad de Round Rock, en el Condado de Williamson, Texas 78664. La ruta de descarga es del sitio de la planta directamente al Brushy Creek. La TCEQ recibió esta solicitud el 9 de septiembre de 2024. La solicitud para el permiso está disponible para leerla y copiarla en el mostrador de atención al cliente del Edificio de Servicios Públicos y Ambientales, 3400 Sunrise Road, Round Rock, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico del sitio o la ubicación general 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=-97.666111,30.513888&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 o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado 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 DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión debe ser presentado a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional de la ciudad de Round Rock, la cuidad de Austin, la ciudad de Cedar Park, y la ciudad de Leander a la dirección indicada arriba o llamando a Sr. Michael Thane, P.E., Director de Servicios Públicos y Medioambientales, la ciudad de Round Rock, al 512-218-3236.

Fecha de emisión _____ *[Date notice issued]*

TPDES PERMIT NO.
WQ0010264001
[For TCEQ office use only - EPA I.D. No. TX0075167]

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

This is a renewal that replaces TPDES Permit No. WQ0010264001 issued on January 30, 2014.

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

City of Round Rock, City of Cedar Park, and City of Austin

whose mailing address is

221 East Main Street
Round Rock, Texas 78664

is authorized to treat and discharge wastes from the Brushy Creek Regional West Wastewater Treatment Facility, SIC Code 4952

located at 1114 East Austin Avenue, in the City of Round Rock, Williamson County, Texas 78664

directly to Brushy Creek in Segment No. 1244 of the Brazos 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: **March 11, 2020**

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 3.0 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,250 gallons per minute (gpm).

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)	7 (175)	12	22	32	Two/week	Composite
Total Suspended Solids	15 (375)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (75)	6	10	15	Two/week	Composite
Nitrate-Nitrogen	Report (Report)	N/A	Report	N/A	Two/week	Composite
Total Phosphorus	1.0 (25)	2	4	6	Two/week	Composite
E. coli, CFU or MPN per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.

6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored twice per week by grab sample.

7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

   a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.

   b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

   c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

   d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

   e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

   f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

   a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

      i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the 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. 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 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 September 1, 2020, 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;

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 and the permit number(s);

ii. the bankruptcy court in which the petition for bankruptcy was filed; and

iii. 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 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 Environmental Cleanup 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 Registration, Review, and Reporting 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.

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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 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 Sewage Sludge. This provision does not authorize the permittee to land apply sludge on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge 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.

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.

B. Testing Requirements

1. Sewage sludge 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 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 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 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 Remediation Support Division and the Regional Director (MC Region 11) 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, Registration, Review, and Reporting 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 11) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

2. Sewage sludge 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.

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 pathogen requirements.

a. For sewage sludge to be classified as Class A with respect to pathogens, the density of fecal coliform in the sewage sludge 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 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.

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 with respect to pathogens, the density of fecal coliform in the sewage sludge 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%.

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.

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 sewage sludge may be classified a Class A sewage sludge 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 criteria for

sewage sludge.

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, the following site restrictions must be met if Class B sludge is land applied:

i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains 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 sewage sludge when the sewage sludge remains 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 sewage sludge.

v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge 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 sewage sludge.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

ix. Land application of sludge 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. Sewage sludge shall be injected below the surface of the land.

ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is 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 sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Sewage sludge 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 sewage sludge that is incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge 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 sewage sludge (*) 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 sewage sludge 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 treatment process or processes at the facility: preliminary operations (e.g., sludge 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 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 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 pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk sewage sludge 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 sewage sludge 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 sewage sludge 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 sewage sludge sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.

   b. A statement that application of the sewage sludge 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 sewage sludge application rate for the sewage sludge 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 sewage sludge is 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 sewage sludge is 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 sewage sludge 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 sewage sludge.

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 sewage sludge disposal practice.

E. Record keeping Requirements

The sludge 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 sewage sludge 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 sludge, 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 sewage sludge is 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 sewage sludge or a sewage sludge 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 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 sludge is applied.

   c. The number of acres in each site on which bulk sludge is applied.

   d. The date and time sludge is 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 sludge 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 report annually to the TCEQ Regional Office (MC Region 11) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge 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 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 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 sludge, 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 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 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 sewage sludge is applied.

    c. The date and time bulk sewage sludge is applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.

    e. The amount of sewage sludge (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 DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

A. The permittee shall handle and dispose of sewage sludge 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 disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge 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 disposal practice.

D. Sewage sludge 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 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 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 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 Remediation Support Division and the Regional Director (MC Region 11) 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, Registration, Review, and Reporting 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 11) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

E. Sewage sludge 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 report annually to the TCEQ Regional Office (MC Region 11) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge 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 production in dry tons/year.

4. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge transported interstate in dry tons/year.

6. A certification that the sewage sludge 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 TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge that is transported to another wastewater treatment facility or facility that further processes sludge. These provisions are intended to allow transport of sludge to facilities that have been authorized to accept sludge. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge, 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 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 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 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.

2. For sludge 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 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 report the following information annually to the TCEQ Regional Office (MC Region 11) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge 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 production;

3. the amount of sludge 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.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and, in particular, 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

   This Category B facility must be operated by a chief operator or an operator holding a Category B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.

3. 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 nuisance odor prevention plan in accordance with 30 TAC § 309.13(e)(2) approved on May 14, 2014. (Log No. 0414/004) The permittee shall also comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)

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

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to 5/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.

7. Within 90 days from permit issuance, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The

permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2 of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

8. The Nitrate-Nitrogen reporting requirements at Outfall 001 will expire at the expiration of this permit. The reported values will be evaluated, and the reporting requirements may be reinstated or an effluent limit added at the next permit action.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The co-permittees 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 publicly owned treatment works (POTW) pretreatment program for the **Brushy Creek Regional Wastewater System**, which was originally authorized and approved by EPA for the Brazos River Authority on **October 27, 1990**, and modified on **December 1, 1994**, and **August 16, 2005**. The pretreatment program was subsequently transferred to the Cities of Round Rock, Cedar Park, and Austin on June 3, 2010, for the Brushy Creek Regional West Wastewater Treatment Facility (TPDES Permit No. WQ0010264001), and on December 2, 2010, for the Brushy Creek Regional East Wastewater Treatment Facility (TPDES Permit No. WQ0010264002). As a result of the permit transfers, the co-permittees were required to submit a modified pretreatment program to the Executive Director for review and approval. As required by TPDES Permit No. WQ0010264002, "tracking" plant of the approved pretreatment program, the co-permittees developed and submitted a modified pretreatment program to reflect all three co-permittees as the Control Authority (CA) for the Brushy Creek Regional Wastewater System. The co-permittees are the CA with a 'designated agent' for purposes of pretreatment reporting and record-keeping requirements, which is the City of Round Rock as of December 2, 2011.

   The legal authority and the POTW's pretreatment program are not in compliance with the current 40 CFR Part 403 regulations *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]* and 30 TAC Chapter 315, as amended.

   The co-permittees submitted a modification to their pretreatment program containing some or all of the required [*i.e.* more stringent] Streamlining Rule provisions to the TCEQ on September 28, 2010, and amendments were submitted on June 9, 2011. The modified pretreatment program revises the legal authorities and includes additional modifications to the transferred pretreatment program, including the Enforcement Response Plan and Standard Operating Procedures (including forms). The Executive Director is currently reviewing this modification for technical completeness. If after review of the modification submission, the Executive Director determines that the submission does not comply with applicable requirements, including 40 CFR §§403.8 and 403.9, the Executive Director will notify the permittee. According to 40 CFR §403.11(c), the notification will include suggested modifications to bring the modification submission into compliance with applicable requirements, including 40 CFR §§403.8(b) and (f), and 403.9(b). In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the permittee's modification submission.

   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 co-permittees shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The co-

permittees are 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 co-permittees shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.

d. The co-permittees 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 co-permittees 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 co-permittees 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 co-permittees without the prior approval of the Executive Director, according to 40 CFR §403.18.

2. The co-permittees are 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 co-permittees may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The co-permittees are required to effectively enforce such limits and to modify its pretreatment program, including the legal authorities, enforcement response plan, and standard operating procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

   The permittee has submitted a substantial modification to its approved pretreatment program for the re-development of the Brushy Creek Regional Wastewater System technically based local limits (TBLLs) to the TCEQ on January 3, 2015. The CA has subsequently submitted additional information and required revisions to in 2015 and 2016. The Executive Director is currently reviewing this substantial modification for technical completeness.

   If after review of the substantial modification submission, the Executive Director determines that the submission does not comply with applicable requirements, including 40 CFR §§403.8 and 403.9, the Executive Director will notify the co-permittees. According to 40 CFR §403.11(c), the notification will include suggested revisions to bring the substantial modification submission into compliance with applicable requirements, including 40 CFR §§403.8(b) and (f) and 403.9(b). In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the co-permittees' substantial modification submission.

   Upon approval by the Executive Director of the substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §§403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the co-permittees unless modified under this provision.

3. The co-permittees shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per year** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**. If, based upon information available to the co-permittees, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL). 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 'designated agent' of the CA 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 'designated agent' of the CA 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, upset, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the co-permittees.

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 permittees 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 permittees have 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 'designated agent' of the CA 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 permittees 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 September 1, 2020, the 'designated agent' of the CA 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 co-permittees 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 'designated agent' of the CA 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 permittees' knowledge of the following:

   a. Any new introduction of pollutants into the treatment works from an indirect discharger which 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 October 18, 2019

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																	
			CONTROL MECHANISM							COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
										REPORTS						
Industrial User Name	SIC or NAICS Code	CIU[2]	Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]	New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	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											
Cyanide, Available [6]											
Cyanide, 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
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											
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											

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
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											
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											

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
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											
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl 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
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											
Hexachloro-cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											

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
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											
4,4-DDE											
4,4-DDD											
Dieldrin											

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
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				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											

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
Bis(chloromethyl) ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Fluoride											
Guthion											
Hexachlorophene											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											

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
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 permittees 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 permittees have 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 permittees 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 permittees 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 permittees have 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 permittees to analyze at this time.

8. EPA procedure not approved. Will not require permittees 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 27%, 35%, 47%, 63%, and 84% effluent. The critical dilution, defined as 63% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. Testing Frequency Reduction

1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

5) a critical dilution CV% of 40 or less for young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test, unless statistically significant toxicity is demonstrated at the critical dilution, in which case the test shall be considered valid;

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a PMSD of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival and reproduction test, the statistical analyses used to determine the inhibition concentration of effluent that would cause a 25% reduction (IC25) in survival or mean young per female shall be as described in the methods manual referenced in Part 1.b.

2) For the fathead minnow larval survival and growth tests, the statistical analyses used to determine the IC25 in survival or growth shall be as described in the methods manual referenced in Part 1.b.

3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and

Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

4) Most point estimates are derived from a mathematical model that assumes a continuous dose-response relationship. For any test result that demonstrates a non-continuous (threshold) response, or a non-monotonic dose-response relationship, the IC25 should be determined based on the method guidance manual referenced in Item 3.

5) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic dose-response relationship may be submitted, prior to the due date, for technical review of test validity and acceptability. The method guidance manual referenced in Item 3 will be used as the basis, along with best professional judgement, for making a determination of test validity and acceptability.

c. Dilution Water

1) Dilution water used in the toxicity tests shall be the receiving water collected at a point upstream of the discharge as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days);

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard,

reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and

January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter T4P3B, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter T6P3B, report the IC25 for survival.

3) For the water flea, Parameter T5P3B, enter a "1" if the IC25 for reproduction is less than the critical dilution; otherwise, enter a "0."

4) For the water flea, Parameter T7P3B, report the IC25 for reproduction.

5) For the fathead minnow, Parameter T4P6C, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."

6) For the fathead minnow, Parameter T6P6C, report the IC25 for survival.

7) For the fathead minnow, Parameter T5P6C, enter a "1" if the IC25 for growth is less than the critical dilution; otherwise, enter a "0."

8) For the fathead minnow, Parameter T7P6C, report the IC25 for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the IC25 for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. A significant effect is defined as an IC25 of a specified endpoint (survival, growth, or reproduction) less than the critical dilution. Significant lethality is defined as a survival IC25 less than the critical dilution. Similarly, significant sublethality is defined as a growth or reproduction IC25 less than the critical dilution.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive

months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple

characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the

facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may

be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

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%	27%	35%	47%	63%	84%
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%	27%	35%	47%	63%	84%
24h						
48h						
End of Test						

1. Is the IC25 for reproduction less than the critical dilution (63%)? _____YES _____NO

2. Is the IC25 for survival less than the critical dilution (63%)? _____ YES _____ NO

3. Enter percent effluent corresponding to each IC25 below:

   IC25 survival = _____%

   IC25 reproduction = _____%

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%							
27%							
35%							
47%							
63%							
84%							

* Coefficient of Variation = standard deviation x 100/mean

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%									
27%									
35%									
47%									
63%									
84%									

* Coefficient of Variation = standard deviation x 100/mean

1. Is the IC25 for growth less than the critical dilution (63%)? _____ YES _____ NO

2. Is the IC25 for survival less than the critical dilution (63%)? _____ YES _____ NO

3. Enter percent effluent corresponding to each IC25 below:

   IC25 survival = _____%

   IC25 growth = _____%

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting

characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival

of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

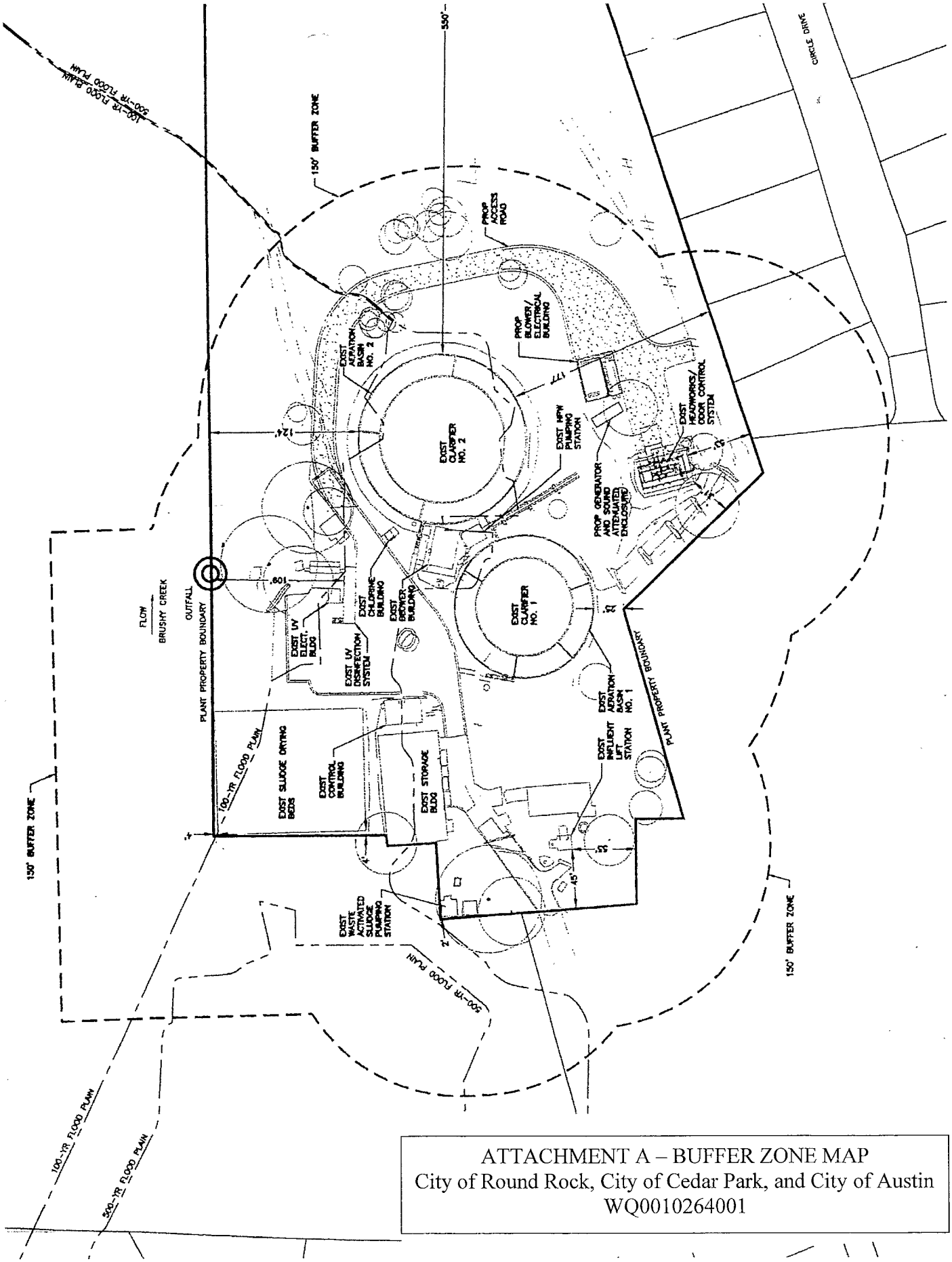
	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent



ATTACHMENT A – BUFFER ZONE MAP
City of Round Rock, City of Cedar Park, and City of Austin
WQ0010264001

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010264001, EPA I.D. No. TX0075167, 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 Round Rock, City of Cedar Park, City of Austin, and City of Leander
221 East Main Street
Round Rock, Texas 78664

Prepared By: Sonia Bhuiya
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-1205

Date: May 12, 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 3.0 million gallons per day (MGD). The existing wastewater treatment facility serves portions of Round Rock, Cedar Park, Leander, Fern Bluffs Municipal Utility District (MUD), Brushy Creek MUD, and parts of North Austin.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 1116 East Austin Avenue, in the City of Round Rock, Willamson County, Texas 78664.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.514557 N	97.665391 W

The treated effluent is discharged directly to Brushy Creek in Segment No. 1244 of the Brazos River Basin. The designated uses for Segment No. 1244 are primary contact

recreation, public water supply, aquifer protection, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Brushy Creek Regional West Wastewater Treatment Facility is an activated sludge process plant operated in the extended aeration mode. Treatment units include an influent lift station, two fine screens, two selector basins, two aeration basins, two final clarifiers, and an Ultraviolet (UV) disinfection system. The facility is in operation.

Sludge generated from the treatment facility is conveyed via pipe to the Brushy Creek Regional East Wastewater Treatment Facility, Permit No. WQ0010264002, in Williamson 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 Brushy Creek Regional West WWTP 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 August 2019 through September 2024. The average 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 ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), Nitrate- Nitrogen, and total Phosphorus (TP). The average 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	1.65
$CBOD_5$, mg/l	4.59
TSS, mg/l	3.61
NH_3-N, mg/l	0.45
E. coli, CFU or MPN per 100 ml	10
Nitrate- Nitrogen, mg/l	10.65
TP, mg/l	0.54

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. INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 3.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,250

gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	175	12	22
TSS	15	375	25	40
NH_3-N	3	75	6	10
Nitrate-Nitrogen	Report	Report	N/A	Report
Total P	1.0	25	2	4
DO (minimum)	6.0	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 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
Nitrate-Nitrogen	Two/week
Total P	Two/week
DO	Two/week
E. coli	Daily

B. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 3.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 6,250 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	7	175	12	22
TSS	15	375	25	40
NH_3-N	2	50	5	10
Nitrate-Nitrogen	Report	Report	N/A	Report
Total P	1.0	25	2	4
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN	126	N/A	N/A	399

per 100 ml

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
Nitrate-Nitrogen	Two/week
Total P	Two/week
DO	Two/week
E. coli	Daily

C. 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 conveyed via pipe to the Brushy Creek Regional East Wastewater Treatment Facility, Permit No. WQ0010264002, in Williamson 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.

D. 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 co-permittees have a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) for the Brazos River Authority on **October 27, 1990,** and modified on **December 1, 1994, August 16, 2005, May 14, 2020** (nonsubstantial Streamlining Rule), and **January 3, 2024** (TBLLs)**.** The pretreatment program was subsequently transferred to the Cities of Round Rock, Cedar Park, and Austin on June 3, 2010, for the Brushy Creek

Regional West Wastewater Treatment Facility (TPDES Permit No. WQ0010264001), and on December 2, 2010, for the Brushy Creek Regional East Wastewater Treatment Facility (TPDES Permit No. WQ0010264002). As a result of the permit transfers, the co-permittees were required to submit a modified pretreatment program to the Executive Director for review and approval. As required by TPDES Permit No. WQ0010264002, "tracking" plant of the approved pretreatment program, the co-permittees developed and submitted a modified pretreatment program to reflect all the co-permittees as the Control Authority (CA) for the Brushy Creek Regional Wastewater System. The co-permittees (which now includes City of Leander) are the CA with a 'designated agent' for purposes of pretreatment report and recordkeeping requirements, which is the City of Round Rock as of December 2, 2011.

The co-permittees are 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 co-permittees must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the co-permittees request and obtain an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The co-permittees are 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 co-permittees 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.

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.

E. 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 27%, 47%, 63%, 84%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 63% 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*).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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.

Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate.

Based on pH screening, the current permit limits (6.5 to 9.0 standard units) are protective of segment pH criteria.

Based on model results, effluent limits of **7 mg/L $CBOD_5$, 3 mg/l change to 2**

mg/L NH_3-N, and 6.0 mg/L DO are predicted to be **necessary** to maintain dissolved oxygen levels above the criterion stipulated by the Standards Implementation Team for Brushy Creek (5.0 mg/l).

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 directly to Brushy Creek in Segment No. 1244 of the Brazos River Basin. The designated uses for Segment No. 1244 are primary contact recreation, public water supply, aquifer protection, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) 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. 1244 is currently listed on the State's inventory of impaired and threatened waters, the 2022 CWA § 303(d) list. The listing is for bacteria from the confluence San Gabriel River upstream to the confluence of Mustang Creek (AU 1244_01) and from the confluence of Cottonwood Creek upstream to the confluence of Lake Creek (AU 1244_03). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 625 mg/l total dissolved solids (TDS), 47.4 mg/l sulfate, and 211 mg/l chloride present in the effluent. The segment criteria for Segment No. 1244 are 800 mg/l for TDS, 150 mg/l for sulfate, and 200 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate

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 limits recommended above have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The recommended 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 Brushy 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 Brushy 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 3.0 MGD and the 7-day, 2-year (7Q2) flow of 2.72 cfs for Brushy Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 3.0 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	87.22%	Chronic Effluent %:	63.05%

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*. The segment values are 160 mg/l for hardness (as calcium carbonate), 55 mg/l for chlorides, 7.3 standard units for pH, and 2 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 A 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 limitations for aquatic life protection

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied 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 3.0 MGD and the harmonic mean flow of 5.86 cfs for Brushy Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 44.2%

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 A of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1244, which receives the discharge from this facility, is designated as a public water supply. The screening procedure used to calculate water quality-based effluent limitations and determine the need for effluent limitations or monitoring requirements is identical to the procedure outlined in the aquatic organism bioaccumulation section of this fact sheet. Criteria used in the calculation of water quality-based effluent limitations for the protection of a drinking water supply are outlined in Table 2 (Water and Fish) of the Texas Surface Water Quality Standards (30 TAC Chapter 307). These criteria are developed from either drinking water maximum contaminant level (MCL) criteria outlined in 30 TAC Chapter 290 or from the combined human health effects of exposure to consumption of fish tissue and ingestion of drinking water.

(b) PERMIT ACTION

Criteria in the "Water and Fish" section of Table 2 do not distinguish if the criteria is based on a drinking water standard or the combined effects of ingestion of drinking water and fish tissue. Effluent limitations or monitoring requirements to protect the drinking water supply (and other human health effects) were previously calculated and outlined in the aquatic organism bioaccumulation criteria section of this fact sheet.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed 26 chronic tests, with no demonstrations of significant toxicity (i.e., failures) by the water flea or fathead minnow.

A reasonable potential determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will

reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic (or 48-hour acute) WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no demonstrations of significant toxicity during the period of record for either test species, a determination of no reasonable potential was made.

All of the test results were used for this determination.

(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 three years, the permittee has performed twelve 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 Sonia Bhuiya at (512) 239-1205.

1. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010264001 issued on March 11, 2020.

B. APPLICATION

Application received on September 9, 2024, and additional information received on October 22, 2024.

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: 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 Round Rock, City of Cedar Park, City of Austin, and City of Leander
TPDES Permit No.:	WQ0010264001
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	June 5, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Brushy Creek
Segment No.:	1244
TSS (mg/L):	2
pH (Standard Units):	7.6
Hardness (mg/L as $CaCO_3$):	180
Chloride (mg/L):	55
Effluent Flow for Aquatic Life (MGD):	3
Critical Low Flow [7Q2] (cfs):	2.72
% Effluent for Chronic Aquatic Life (Mixing Zone):	63.05
% Effluent for Acute Aquatic Life (ZID):	87.22
Effluent Flow for Human Health (MGD):	3
Harmonic Mean Flow (cfs):	5.86
% Effluent for Human Health:	44.20
Human Health Criterion (select: PWS, FISH, or INC)	**PWS**

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	288567.96	0.634		1.00	Assumed
Cadmium	6.60	-1.13	1819014.27	0.216		1.00	Assumed
Chromium (total)	6.52	-0.93	1737969.31	0.223		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	1737969.31	0.223		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	626957.07	0.444		1.00	Assumed

Lead	6.45	-0.80	1618735.92	0.236		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	329923.24	0.602		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	1174732.83	0.299		1.00	Assumed
Zinc	6.10	-0.70	774959.49	0.392		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	3.44	N/A	1.97	N/A	2.90	6.13
Aluminum	991	N/A	1136	N/A	651	N/A	957	2025
Arsenic	340	150	615	375	352	289	425	898
Cadmium	15.2	0.370	80.8	2.72	46.3	2.10	3.08	6.52
Carbaryl	2.0	N/A	2.29	N/A	1.31	N/A	1.93	4.09
Chlordane	2.4	0.004	2.75	0.0063	1.58	0.0049	0.0072	0.0152
Chlorpyrifos	0.083	0.041	0.095	0.065	0.055	0.050	0.074	0.156
Chromium (trivalent)	922	120	4732	851	2711	656	964	2039
Chromium (hexavalent)	15.7	10.6	18.0	16.8	10.3	12.9	15.2	32.1
Copper	24.7	15.6	63.9	55.9	36.6	43.1	53.8	114
Cyanide (free)	45.8	10.7	52.5	17.0	30.1	13.1	19.2	40.6
4,4'-DDT	1.1	0.001	1.26	0.0016	0.723	0.0012	0.0018	0.0038
Demeton	N/A	0.1	N/A	0.159	N/A	0.122	0.180	0.380
Diazinon	0.17	0.17	0.195	0.270	0.112	0.208	0.164	0.347
Dicofol [Kelthane]	59.3	19.8	68.0	31.4	39.0	24.2	35.5	75.2
Dieldrin	0.24	0.002	0.275	0.0032	0.158	0.0024	0.0036	0.0076
Diuron	210	70	241	111	138	85	126	266
Endosulfan I (*alpha*)	0.22	0.056	0.252	0.089	0.145	0.068	0.101	0.213
Endosulfan II (*beta*)	0.22	0.056	0.252	0.089	0.145	0.068	0.101	0.213
Endosulfan sulfate	0.22	0.056	0.252	0.089	0.145	0.068	0.101	0.213
Endrin	0.086	0.002	0.099	0.0032	0.056	0.0024	0.0036	0.0076
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.016	N/A	0.012	0.018	0.038
Heptachlor	0.52	0.004	0.60	0.0063	0.342	0.0049	0.0072	0.0152
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.29	0.127	0.740	0.098	0.144	0.304
Lead	122	4.74	591	31.9	339	24.5	36.1	76
Malathion	N/A	0.01	N/A	0.016	N/A	0.012	0.018	0.038
Mercury	2.4	1.3	2.75	2.06	1.58	1.59	2.32	4.90
Methoxychlor	N/A	0.03	N/A	0.048	N/A	0.037	0.054	0.114
Mirex	N/A	0.001	N/A	0.0016	N/A	0.0012	0.0018	0.0038
Nickel	770	85.5	1465	225	840	173	255	539
Nonylphenol	28	6.6	32.1	10.5	18.4	8.06	11.8	25.1
Parathion (ethyl)	0.065	0.013	0.075	0.021	0.043	0.016	0.023	0.049
Pentachlorophenol	15.9	12.2	18.3	19.4	10.5	14.9	15.4	32.6
Phenanthrene	30	30	34.4	47.6	19.7	36.6	29.0	61.3
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.29	0.022	1.31	0.017	0.025	0.053
Selenium	20	5	22.9	7.93	13.1	6.11	9.0	19.0

Silver	0.8	N/A	14.61	N/A	8.37	N/A	12.31	26.0
Toxaphene	0.78	0.0002	0.894	0.00032	0.512	0.00024	0.00036	0.00076
Tributyltin [TBT]	0.13	0.024	0.149	0.038	0.085	0.029	0.043	0.091
2,4,5 Trichlorophenol	136	64	156	102	89.3	78.2	115	243
Zinc	193	194	564	786	323	605	475	1005

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	2.26	2.10	3.09	6.54
Aldrin	1.146E-05	1.147E-05	1.147E-04	2.59E-05	2.41E-05	3.54E-05	7.50E-05
Anthracene	1109	1317	13170	2509	2333	3430	7257
Antimony	6	1071	10710	13.6	12.6	18.6	39.3
Arsenic	10	N/A	N/A	35.7	33.2	48.8	103
Barium	2000	N/A	N/A	4525	4208	6186	13088
Benzene	5	581	5810	11.3	10.5	15.5	32.7
Benzidine	0.0015	0.107	1.07	0.0034	0.0032	0.0046	0.0098
Benzo(*a*)anthracene	0.024	0.025	0.25	0.054	0.050	0.074	0.157
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.0057	0.0053	0.008	0.016
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.0054	0.0050	0.007	0.016
Bis(2-chloroethyl)ether	0.60	42.83	428.3	1.36	1.26	1.86	3.93
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	13.6	12.6	18.6	39.3
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	23.1	21.5	31.5	67
Bromoform [Tribromomethane]	66.9	1060	10600	151	141	207	438
Cadmium	5	N/A	N/A	52.5	48.8	71.7	152
Carbon Tetrachloride	4.5	46	460	10.2	9.5	13.9	29.4
Chlordane	0.0025	0.0025	0.025	0.0057	0.0053	0.008	0.016
Chlorobenzene	100	2737	27370	226	210	309	654
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	17.0	15.8	23.2	49.1
Chloroform [Trichloromethane]	70	7697	76970	158	147	217	458
Chromium (hexavalent)	62	502	5020	140	130	192	406
Chrysene	2.45	2.52	25.2	5.54	5.16	7.6	16.0
Cresols [Methylphenols]	1041	9301	93010	2355	2190	3220	6812
Cyanide (free)	200	N/A	N/A	452	421	619	1309
4,4'-DDD	0.002	0.002	0.02	0.0045	0.0042	0.0062	0.0131
4,4'-DDE	0.00013	0.00013	0.0013	0.00029	0.00027	0.00040	0.0009
4,4'-DDT	0.0004	0.0004	0.004	0.0009	0.0008	0.0012	0.0026
2,4'-D	70	N/A	N/A	158	147	217	458
Danitol [Fenpropathrin]	262	473	4730	593	551	810	1714
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	0.385	0.358	0.526	1.11
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	729	678	996	2107
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	1357	1262	1856	3926
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	170	158	232	491
3,3'-Dichlorobenzidine	0.79	2.24	22.4	1.79	1.66	2.44	5.17

1,2-Dichloroethane	5	364	3640	11.3	10.5	15.5	32.7
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	15.8	14.7	21.7	45.8
Dichloromethane [Methylene Chloride]	5	13333	133330	11.3	10.5	15.5	32.7
1,2-Dichloropropane	5	259	2590	11.3	10.5	15.5	32.7
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	6.33	5.89	8.7	18.3
Dicofol [Kelthane]	0.30	0.30	3	0.68	0.631	0.93	1.96
Dieldrin	2.0E-05	2.0E-05	2.0E-04	4.52E-05	4.21E-05	6.19E-05	1.31E-04
2,4-Dimethylphenol	444	8436	84360	1005	934	1373	2905
Di-*n*-Butyl Phthalate	88.9	92.4	924	201	187	275	582
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.76E-07	1.64E-07	2.41E-07	5.10E-07
Endrin	0.02	0.02	0.2	0.045	0.042	0.062	0.131
Epichlorohydrin	53.5	2013	20130	121	113	165	350
Ethylbenzene	700	1867	18670	1584	1473	2165	4581
Ethylene Glycol	46744	1.68E+07	1.68E+08	105757	98354	144581	305882
Fluoride	4000	N/A	N/A	9050	8416	12372	26175
Heptachlor	8.0E-05	0.0001	0.001	0.00018	0.00017	0.00025	0.00052
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0007	0.0006	0.0009	0.0019
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0015	0.0014	0.0021	0.0044
Hexachlorobutadiene	0.21	0.22	2.2	0.475	0.442	0.650	1.37
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.018	0.016	0.024	0.051
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.339	0.316	0.464	0.98
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.452	0.421	0.619	1.31
Hexachlorocyclopentadiene	10.7	11.6	116	24.2	22.5	33.1	70
Hexachloroethane	1.84	2.33	23.3	4.16	3.87	5.69	12.0
Hexachlorophene	2.05	2.90	29	4.64	4.31	6.34	13.4
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	2471	2298	3378	7146
Lead	1.15	3.83	38.3	11.0	10.3	15.1	31.9
Mercury	0.0122	0.0122	0.122	0.028	0.026	0.038	0.080
Methoxychlor	2.92	3.0	30	6.6	6.14	9.0	19.1
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	31369	29173	42885	90729
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	33.9	31.6	46.4	98
Nickel	332	1140	11400	1247	1160	1704	3606
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	22625	21041	30930	65438
Nitrobenzene	45.7	1873	18730	103	96	141	299
N-Nitrosodiethylamine	0.0037	2.1	21	0.008	0.008	0.011	0.024
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	0.269	0.250	0.368	0.78
Pentachlorobenzene	0.348	0.355	3.55	0.79	0.73	1.08	2.28
Pentachlorophenol	0.22	0.29	2.9	0.498	0.463	0.68	1.44
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0014	0.0013	0.0020	0.0042
Pyridine	23	947	9470	52.0	48.4	71	151
Selenium	50	N/A	N/A	113	105	155	327
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.520	0.484	0.71	1.51
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	3.71	3.45	5.07	10.7
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	11.3	10.5	15.5	32.7
Thallium	0.12	0.23	2.3	0.271	0.252	0.371	0.79
Toluene	1000	N/A	N/A	2262	2104	3093	6544

Toxaphene	0.011	0.011	0.11	0.025	0.023	0.034	0.072
2,4,5-TP [Silvex]	50	369	3690	113	105	155	327
1,1,1-Trichloroethane	200	784354	7843540	452	421	619	1309
1,1,2-Trichloroethane	5	166	1660	11.3	10.5	15.5	32.7
Trichloroethylene [Trichloroethene]	5	71.9	719	11.3	10.5	15.5	32.7
2,4,5-Trichlorophenol	1039	1867	18670	2351	2186	3214	6799
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	181	168	247	524
Vinyl Chloride	0.23	16.5	165	0.520	0.484	0.711	1.505

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	2.03	2.46
Aluminum	670	813
Arsenic	297	361
Cadmium	2.16	2.62
Carbaryl	1.35	1.64
Chlordane	0.0050	0.0061
Chlorpyrifos	0.052	0.063
Chromium (trivalent)	675	819
Chromium (hexavalent)	10.6	12.9
Copper	37.6	45.7
Cyanide (free)	13.4	16.3
4,4'-DDT	0.0013	0.0015
Demeton	0.126	0.153
Diazinon	0.115	0.140
Dicofol [Kelthane]	24.9	30.2
Dieldrin	0.0025	0.0031
Diuron	88	107
Endosulfan I (*alpha*)	0.070	0.085
Endosulfan II (*beta*)	0.070	0.085
Endosulfan sulfate	0.070	0.085
Endrin	0.0025	0.0031
Guthion [Azinphos Methyl]	0.013	0.015
Heptachlor	0.0050	0.0061
Hexachlorocyclohexane (*gamma*) [Lindane]	0.101	0.122
Lead	25.3	30.7
Malathion	0.013	0.015
Mercury	1.62	1.97
Methoxychlor	0.038	0.046
Mirex	0.0013	0.0015
Nickel	178	217
Nonylphenol	8.29	10.1
Parathion (ethyl)	0.016	0.020
Pentachlorophenol	10.8	13.1
Phenanthrene	20.3	24.6
Polychlorinated Biphenyls [PCBs]	0.018	0.021
Selenium	6.28	7.63
Silver	8.62	10.46

Toxaphene	0.00025	0.00031
Tributyltin [TBT]	0.030	0.037
2,4,5 Trichlorophenol	80.4	98
Zinc	332	404

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2.17	2.63
Aldrin	2.48E-05	3.01E-05
Anthracene	2401	2916
Antimony	13.0	15.8
Arsenic	34.1	41.5
Barium	4330	5258
Benzene	10.8	13.1
Benzidine	0.0032	0.0039
Benzo(*a*)anthracene	0.052	0.063
Benzo(*a*)pyrene	0.0054	0.0066
Bis(chloromethyl)ether	0.0052	0.0063
Bis(2-chloroethyl)ether	1.30	1.58
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	13.0	15.8
Bromodichloromethane [Dichlorobromomethane]	22.1	26.8
Bromoform [Tribromomethane]	145	176
Cadmium	50.2	61.0
Carbon Tetrachloride	9.7	11.8
Chlordane	0.0054	0.0066
Chlorobenzene	217	263
Chlorodibromomethane [Dibromochloromethane]	16.2	19.7
Chloroform [Trichloromethane]	152	184
Chromium (hexavalent)	134	163
Chrysene	5.30	6.44
Cresols [Methylphenols]	2254	2737
Cyanide (free)	433	526
4,4'-DDD	0.0043	0.0053
4,4'-DDE	0.00028	0.00034
4,4'-DDT	0.0009	0.0011
2,4'-D	152	184
Danitol [Fenpropathrin]	567	689
1,2-Dibromoethane [Ethylene Dibromide]	0.368	0.447
m-Dichlorobenzene [1,3-Dichlorobenzene]	697	847
o-Dichlorobenzene [1,2-Dichlorobenzene]	1299	1577
p-Dichlorobenzene [1,4-Dichlorobenzene]	162	197
3,3'-Dichlorobenzidine	1.71	2.08
1,2-Dichloroethane	10.8	13.1
1,1-Dichloroethylene [1,1-Dichloroethene]	15.2	18.4
Dichloromethane [Methylene Chloride]	10.8	13.1

1,2-Dichloropropane	10.8	13.1
1,3-Dichloropropene [1,3-Dichloropropylene]	6.06	7.4
Dicofol [Kelthane]	0.650	0.79
Dieldrin	4.33E-05	5.26E-05
2,4-Dimethylphenol	961	1167
Di-*n*-Butyl Phthalate	192	234
Dioxins/Furans [TCDD Equivalents]	1.69E-07	2.05E-07
Endrin	0.043	0.053
Epichlorohydrin	116	141
Ethylbenzene	1516	1840
Ethylene Glycol	101207	122894
Fluoride	8660	10516
Heptachlor	0.00017	0.00021
Heptachlor Epoxide	0.00063	0.00076
Hexachlorobenzene	0.0015	0.0018
Hexachlorobutadiene	0.455	0.552
Hexachlorocyclohexane (*alpha*)	0.017	0.021
Hexachlorocyclohexane (*beta*)	0.325	0.394
Hexachlorocyclohexane (*gamma*) [Lindane]	0.433	0.526
Hexachlorocyclopentadiene	23.2	28.1
Hexachloroethane	3.98	4.84
Hexachlorophene	4.44	5.39
4,4'-Isopropylidenediphenol [Bisphenol A]	2364	2871
Lead	10.6	12.8
Mercury	0.026	0.032
Methoxychlor	6.32	7.7
Methyl Ethyl Ketone	30019	36452
Methyl *tert*-butyl ether [MTBE]	32.5	39.4
Nickel	1193	1449
Nitrate-Nitrogen (as Total Nitrogen)	21651	26291
Nitrobenzene	99	120
N-Nitrosodiethylamine	0.008	0.010
N-Nitroso-di-*n*-Butylamine	0.258	0.313
Pentachlorobenzene	0.75	0.91
Pentachlorophenol	0.476	0.578
Polychlorinated Biphenyls [PCBs]	0.0014	0.0017
Pyridine	49.8	60.5
Selenium	108	131
1,2,4,5-Tetrachlorobenzene	0.498	0.605
1,1,2,2-Tetrachloroethane	3.55	4.31
Tetrachloroethylene [Tetrachloroethylene]	10.8	13.1
Thallium	0.260	0.315
Toluene	2165	2629
Toxaphene	0.024	0.029
2,4,5-TP [Silvex]	108	131
1,1,1-Trichloroethane	433	526
1,1,2-Trichloroethane	10.8	13.1
Trichloroethylene [Trichloroethene]	10.8	13.1
2,4,5-Trichlorophenol	2250	2732
TTHM [Sum of Total Trihalomethanes]	173	210

Vinyl Chloride	0.498	0.605