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 *

* **NOTE:** This application was declared Administratively Complete before June 1, 2024. The application materials, draft permit, and technical summary or fact sheet are available for review at the Public Viewing Location provided in the NAPD.

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 **

** **NOTA:** Esta solicitud se declaró administrativamente completa antes del 1 de junio de 2024. Los materiales de la solicitud, el proyecto de permiso, y los resumen técnico u hoja de datos están disponibles para revisión en la ubicación de consulta pública que se indica en el NAPD.

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in 30 Texas Administrative Code §39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

City of Lake Jackson (CN600318984) operates Dyson Campbell Water Reclamation Center RN101920338. a Domestic Wastewater Treatment Plant with conventional activated sludge and nitrification. The facility is located 151 Canna Lane, in Lake Jackson, Brazoria County, Texas 77566.

The application is for a renewal to the authorization to discharge up to 5,850,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, and E. coli. Additional potential parameters are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant with nitrification operated in the conventional mode. Treatment units include grit removal, aeration basins, final clarifiers, chlorine contact basins, gravity thickener, anerobic sludge digesters, and belt-filter presses.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Lake Jackson (CN600318984) opera Dyson Campbell Reclamation Center RN101920339 una Planta de Tratamiento de Aguas Residuales - La instalación esta ubicada en 151 Canna Lane, en la ciudad de Lake Jackson, en el condado de Brazoria, Texas 77566.

La solicitud busca renovar la autorización para verter hasta 5,850,000 galones diarios de aguas residuales domésticas tratadas a través del emisario 001.

Las descargas de la instalación se espera que contengan demanda bioquímica de oxígeno carbonáceo de cinco días, sólidos suspendidos totales, nitrógeno amoniacal y E. coli. Parámetros adicionales potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstica 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas por una planta de procesamiento de lodos activados con nitrificación operada en modo convencional. Las unidades de tratamiento incluyen la eliminación de arena, balsas de aireación, clarificadores finales, balsas de contacto con cloro, espesador por gravedad, digestores de lodos anaerobios y prensas de filtro de banda.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010047001

APPLICATION. City of Lake Jackson, 25 Oak Drive, Lake Jackson, Texas 77566, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010047001 (EPA I.D. No. TX0025798) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 5,850,000 gallons per day. The domestic wastewater facility is located at 151 Canna Lane, in the city of Lake Jackson, in Brazoria County, Texas 77566. The discharge route is from the plant site directly to Brazos River Tidal. TCEQ received this application on February 16, 2024. The permit application will be available for viewing and copying at Lake Jackson City Hall, 25 Oak Drive, Lake Jackson, in Brazoria County, Texas prior to the date this notice is published in the newspaper. 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=-95.456944,29.024166&level=18

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.

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 Lake Jackson at the address stated above or by calling Mr. Richard Smith, Utilities Superintendent, at 979-248-4556.

Issuance Date: April 16, 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. WQ0010047001

SOLICITUD. La Ciudad de Lake Jackson, 25 Oak Drive, Lake Jackson, Texas 77566 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) renovar el Permiso No. WQ0010047001 (EPA I.D. No. TX 0025798) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 5,850,000 galones por día. La planta está ubicada en 151 Canna Lane, en la ciudad de Lake Jackson, en el Condado de Brazoria, Texas. La ruta de descarga es del sitio de la planta a la Marea del Río Brazos. La TCEQ recibió esta solicitud el 16 de febrero de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Hall de la Ciudad de Lake Jackson, 25 Oak Drive, Lake Jackson en el Condado de Brazoria, Texas, antes de la fecha de publicación de este aviso en el periódico. El siguiente enlace lleva 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=-95.456944,29.024166&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida**

directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso. Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del la Ciudad de Lake Jackson a la dirección indicada arriba o llamando a Mr. Richard Smith, Superintendente de Servicios Públicos al 979-2484556.

Fecha de emission: 16 de abril de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010047001

APPLICATION AND PRELIMINARY DECISION. City of Lake Jackson, 25 Oak Drive, Lake Jackson, Texas 77566, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010047001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 5,850,000 gallons per day. TCEQ received this application on February 16, 2024.

The facility is located at 151 Canna Lane, in the City of Lake Jackson, Brazoria County, Texas 77566. The treated effluent is discharged directly to Brazos River Tidal in Segment 1201 of the Brazos River Basin. The designated uses for Segment No. 1201 are primary contact recreation, public water supply, 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=-95.456944,29.024166&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Jackson City Hall, 25 Oak Drive, Lake Jackson, in Brazoria County, Texas.

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 Lake Jackson at the address stated above or by calling Mr. Richard Smith, Utilities Superintendent, at 979-248-4556.

Issuance Date: May 20, 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. WQ0010047001

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Lake Jackson, 25 Oak Drive, Lake Jackson, Texas 77566, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) la renovación del permiso No. WQ0010047001, del Sistema De Eliminacion De Descargas De Contaminantes De Texas (TPDES) para autorizar la descarga de aguas residuales municipales tratadas en un volumen que no sobrepasa un flujo promedio diario de 5,850,000 galones por día. La TCEQ recibió esta solicitud el 16 de febrero de 2024.

La planta está ubicada 151 Canna Lane, en la Ciudad de Lake Jackson en el Condado de Brazoria, Texas. El efluente tratado es descargado al tramo mareal del Rio Brazos, en el Segmento No. 1201 de la Cuenca del Río Brazos. Los usos designados del Segmento No. 1201 son contacto primario recreacional, suministro de aguas publicas, y uso elevado para la vida acuática.

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 City Hall de la ciudad de Lake Jackson, 25 Oak Drive, Lake Jackson, en el Condado de Brazoria, 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 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=-95.456944,29.024166&level=18

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

COMENTARIO PUBLICO / REUNION PUBLICA. 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 escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de la Ciudad de Lake Jackson a la dirección indicada arriba o llamando al Sr. Richard Smith, Superintendente de Utilidades al 979-248-4556

Fecha de emission: 20 de mayo de 2025

TPDES PERMIT NO.
WQ0010047001
[For TCEQ office use only - EPA I.D. No. TX0025798]

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

This is a renewal that replaces TPDES Permit No. WQ0010047001 issued on August 14, 2019.

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

City of Lake Jackson

whose mailing address is

25 Oak Drive
Lake Jackson, Texas 77566

is authorized to treat and discharge wastes from the City of Lake Jackson Wastewater Treatment Facility, SIC Code 4952

located at 151 Canna Lane, in the City of Lake Jackson in Brazoria County, Texas 77566

directly to Brazos River Tidal in Segment No. 1201 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:

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 5.85 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 13,403 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	20 (976)	30	45	65	Five/week	Composite
Total Suspended Solids	20 (976)	30	45	65	Five/week	Composite
Total Copper	Report(Report)	N/A	Report	N/A	Two/week	Composite
Enterococci, colony-forming units or most probable number per 100 ml	35	N/A	104	N/A	Three/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored five times 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 2.0 mg/l and shall be monitored five times 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. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record, or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

2. Test Procedures

a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.

b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

i. date, time and place of sample or measurement;

ii. identity of individual who collected the sample or made the measurement.

iii. date and time of analysis;

iv. identity of the individual and laboratory who performed the analysis;

v. the technique or method of analysis; and

vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.

      iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

   All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. One hundred micrograms per liter (100 μg/L);

   ii. Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. Five hundred micrograms per liter (500 μg/L);

   ii. One milligram per liter (1 mg/L) for antimony;

   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

10. Signatories to Reports

    All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

11. All POTWs must provide adequate notice to the Executive Director of the following:

    a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;

    b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

    c. For the purpose of this paragraph, adequate notice shall include information on:

       i. The quality and quantity of effluent introduced into the POTW; and

       ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

    a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

    b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

        i. Violation of any terms or conditions of this permit;

        ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

        iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

    c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

    a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

    b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

    c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

    d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

    e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

    f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

   i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or

   ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

   iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

   This permit does not authorize any activity of hazardous waste storage, processing, or disposal that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

   A permit does not convey any property rights of any sort, or any exclusive privilege.

9. Permit Enforceability

   The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Relationship to Permit Application

    The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

11. Notice of Bankruptcy

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;

       ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

       iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

   For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other information specified as not confidential in 30 TAC §§ 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words confidential business information on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities that generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

   a. Whenever flow measurements for any domestic sewage treatment facility reach 75% of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90% of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75% of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

      If in the judgment of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

   b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:

    a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

    b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

    c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

    d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:

   i. Volume of waste and date(s) generated from treatment process;
   ii. Volume of waste disposed of on-site or shipped off-site;
   iii. Date(s) of disposal;
   iv. Identity of hauler or transporter;
   v. Location of disposal site; and
   vi. Method of final disposal.

   The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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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 or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

Pollutant	Ceiling Concentration (Milligrams per kilogram)*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

   Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

   The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

   At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

   Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

   Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted

for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids

generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 - i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal

coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

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

Table 3

Pollutant	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

   b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

   c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

   a. The location, by street address, and specific latitude and longitude, of each land application site.

   b. The approximate time period bulk biosolids will be applied to the site.

   c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

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

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a

period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

   "I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

    The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

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

D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 12) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

   The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224), by September 30 of each year.

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

F. Record Keeping Requirements

   The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.

2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 12) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

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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 Class B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office (GLO) and has determined that the action is consistent with the applicable CMP goals and policies.

3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as a volume within a radius of 200 feet from the point of discharge.

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

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

6. 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, 3/week may be reduced to 1/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.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;

   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

   d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;

   e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and

   h. Any trucked or hauled pollutants except at discharge points designated by the POTW.

2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].

3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either 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 it were 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.

   Any 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 July 2007

BIOMONITORING REQUIREMENTS

CHRONIC BIOMONITORING REQUIREMENTS: MARINE

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 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 below and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms," third edition (EPA-821-R-02-014) or its most recent update:

      1) Chronic static renewal 7-day survival and growth test using the mysid shrimp (*Americamysis bahia*) (Method 1007.0). A minimum of eight replicates with five organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

      2) Chronic static renewal 7-day larval survival and growth test using the inland silverside (*Menidia beryllina*) (Method 1006.0). 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 3%, 5%, 6%, 8%, and 11% effluent. The critical dilution, defined as 8% 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 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 will 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 fails to meet any of the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean dry weight of surviving mysid shrimp of 0.20 mg or greater;

3) a control mean dry weight for surviving unpreserved inland silverside of 0.50 mg or greater and 0.43 mg or greater for surviving preserved inland silverside.

4) a control coefficient of variation percent (CV%) between replicates of 40 or less in the growth and survival tests;

5) a critical dilution CV% of 40 or less in the growth and survival endpoints for either growth and survival test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 37 or less for mysid shrimp growth; and

7) a percent minimum significant difference of 28 or less for inland silverside growth.

b. Statistical Interpretation

1) For the mysid shrimp and the inland silverside larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) 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.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).

5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Part 1.b. will be used when making a determination of test acceptability.

7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected as close to the point of discharge as possible but unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of preexisting 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); and

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, reconstituted seawater. Upon approval, the permittee may substitute other 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 mysid shrimp, Parameter TLP3E, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the mysid shrimp, Parameter TOP3E, report the NOEC for survival.

3) For the mysid shrimp, Parameter TXP3E, report the LOEC for survival.

4) For the mysid shrimp, Parameter TWP3E, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

5) For the mysid shrimp, Parameter TPP3E, report the NOEC for growth.

6) For the mysid shrimp, Parameter TYP3E, report the LOEC for growth.

7) For the inland silverside, Parameter TLP6J, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

8) For the inland silverside, Parameter TOP6J, report the NOEC for survival.

9) For the inland silverside, Parameter TXP6J, report the LOEC for survival.

10) For the inland silverside, Parameter TWP6J, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the inland silverside, Parameter TPP6J, report the NOEC for growth.

12) For the inland silverside, Parameter TYP6J, report the LOEC for growth.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC 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. Significant effect and significant lethality were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth at the critical dilution when compared to the growth of the test organism in the control.

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 "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 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 and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data which 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 herein 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 their 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 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 to 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)

MYSID SHRIMP SURVIVAL AND GROWTH

		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

MYSID SHRIMP SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers								Mean Percent Survival			CV%*
	A	B	C	D	E	F	G	H	24h	48h	7 day	
0%												
3%												
5%												
6%												
8%												
11%												

* Coefficient of Variation = standard deviation x 100/mean

DATA TABLE FOR GROWTH OF MYSID SHRIMP

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
A						
B						
C						
D						
E						

TABLE 1 (SHEET 2 OF 4)

MYSID SHRIMP SURVIVAL AND GROWTH

DATA TABLE FOR GROWTH OF MYSID SHRIMP (Continued)

Replicate	Mean dry weight in milligrams in replicate chambers					
	0%	3%	5%	6%	8%	11%
F						
G						
H						
Mean Dry Weight (mg)						
CV%*						
PMSD						

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

TABLE 1 (SHEET 3 OF 4)

INLAND SILVERSIDE MINNOW LARVAL SURVIVAL AND GROWTH TEST

		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

INLAND SILVERSIDE SURVIVAL

Percent Effluent	Percent Survival in Replicate Chambers					Mean Percent Survival			CV%*
	A	B	C	D	E	24h	48h	7 days	
0%									
3%									
5%									
6%									
8%									
11%									

* Coefficient of Variation = standard deviation x 100/mean

TABLE 1 (SHEET 4 OF 4)

INLAND SILVERSIDE LARVAL SURVIVAL AND GROWTH TEST

INLAND SILVERSIDE GROWTH

Percent Effluent	Average Dry Weight in milligrams in replicate chambers					Mean Dry Weight (mg)	CV%*
	A	B	C	D	E		
0%							
3%							
5%							
6%							
8%							
11%							
PMSD							

Weights are for: ____ preserved larvae, or ____ unpreserved larvae

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (8%): _____ YES _____ NO

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to non-lethal effects?

   CRITICAL DILUTION (8%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC/LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: MARINE

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 mysid shrimp (*Americamysis bahia*). 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 inland silverside (*Menidia beryllina*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, then repeat, an invalid test during the same reporting period. The repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. Except as discussed in Part 2.b., the control and dilution water shall consist of standard, synthetic, reconstituted seawater.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, additional toxicity testing, and 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, reconstituted seawater.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is 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 composite sample. The sample 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 of 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.

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 mysid shrimp, Parameter TIE3E, 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 a “1.”

2) For the inland silverside, Parameter TII6J, 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 a “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, here defined as a mean mortality of 50% or greater to organisms exposed to the 100% effluent concentration after 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 additional 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 item 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5 of this Section.

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 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 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, 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 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 Part 5.h. The report shall 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, the 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 to 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)

MYSID SHRIMP 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)

INLAND SILVERSIDE SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010047001, EPA I.D. No. TX0025798, 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 Lake Jackson
25 Oak Drive
Lake Jackson, Texas 77566

Prepared By: Abdur Rahim
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-0504

Date: February 26, 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 5.85 MGD. The existing wastewater treatment facility serves area within the City of Lake Jackson city limits.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 151 Canna Lane, in the City of Lake Jackson, Brazoria County, Texas 77566.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.021155 N	95.458957 W

The treated effluent is discharged directly to Brazos River Tidal in Segment 1201 of the Brazos River Basin. The designated uses for Segment No. 1201 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Lake Jackson Wastewater Treatment Facility is an activated sludge process plant operated in the conventional mode. Treatment units include a bar screen, a grit chamber, an equalization basin, three aeration basins, two final clarifiers, two sludge digesters, two gravity thickeners, a chlorine contact chamber and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Seabreeze Environmental Landfill, Permit No. 1539A, in Brazoria County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

No DMR data available during the period from January 2019 through July 2023.

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 5.85 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 13,403 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
BOD_5	20	976	30	45
TSS	20	976	30	45
Total Copper	Report	Report	N/A	Report
DO (minimum)	2.0	N/A	N/A	N/A
Enterococci, CFU or MPN/100 ml	35	N/A	N/A	104

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored five times 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 effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be

monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
BOD_5	Five/week
TSS	Five/week
Total Copper	Two/week
DO	Five/week
Enterococci	Three/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Seabreeze Environmental Landfill, Permit No. 1539A, in Brazoria County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (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.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic saltwater 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 3%, 5%, 6%, 8%, and 11%. The low-flow effluent concentration (critical dilution) is defined as 8% 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 growth test using the mysid shrimp (*Americamysis bahia*. 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 inland silverside (*Menidia beryllina*). 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 saltwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the mysid shrimp (*Americamysis bahia*).

(b) Acute 24-hour static toxicity test using the inland silverside (*Menidia beryllina*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged directly to Brazos River Tidal in Segment 1201 of the Brazos River Basin. The designated uses for Segment No. 1201 are primary contact recreation, public water supply, 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. Though the piping plover, *Charadrius melodus* Ord, can occur in Brazoria County, the county is north of Copano Bay and not a watershed of high priority per Appendix A of the 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. 1201 is not currently listed on the State's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

Segment No. 1201, which receives the discharges from this facility, does not have criteria established for total dissolved solids (TDS), chloride, or sulfate in 30 TAC Chapter 307; therefore, no screening was performed for TDS, chloride, or sulfate in the effluent.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for

consistency with the State of Texas Water Quality Management Plan (WQMP). The existing limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office (GLO) and has determined that the action is consistent with the applicable CMP goals and policies.

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 marine aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

Acute marine criteria are applied at the edge of the zone of initial dilution (ZID), and chronic marine criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 50 feet from the point where the discharge enters Brazos River Tidal. The aquatic life mixing zone for this discharge is defined as a radius of 200 feet from the point where the discharge enters Brazos River Tidal.

TCEQ practice is to establish minimum estimated effluent percentages at the edges of the ZID and aquatic life mixing zone for discharges that are 10 MGD or less into bays, estuaries, or wide tidal rivers that are at least 400 feet wide. These critical effluent percentages are as follows:

Acute Effluent %: 30% Chronic Effluent %: 8%

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 99th percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document *"Procedures to Implement the Texas Surface Water Quality Standards,* June 2010." The segment values are 3260 mg/l chlorides, 7.7 standard units for pH, and 10 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 marine fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Marine fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone for discharges into bays, estuaries, and wide tidal rivers. The human health mixing zone for this discharge is defined as a 400-foot radius from the point where the discharge enters Brazos River Tidal. TCEQ practice is to establish a

minimum estimated effluent percentage at the edge of the human health mixing zone for discharges that are 10 MGD or less into bays, estuaries, and wide tidal rivers that are at least 400 feet wide. This critical effluent percentage is:

Human Health Effluent %: 4%

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 limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

The portion of the Water Quality Segment No. 1201, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes chronic saltwater biomonitoring

requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee performed twenty-three chronic tests, with no demonstration of significant toxicity (i.e., zero 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 WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing. All test data 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 saltwater 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 zero demonstrations of significant mortality (i.e., zero failures).

(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 Abdur Rahim at (512) 239-0504.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010047001 issued on August 14, 2019.

B. APPLICATION

Application received on February 16, 2024, and additional information received on April 2, 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 #5 - BAY OR WIDE TIDAL RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Saltwater 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 Lake Jackson
TPDES Permit No:	WQ0010047001
Outfall No:	001
Prepared by:	Abdur Rahim
Date:	February 21, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Brazos River Tidal
Segment No:	1201
TSS (mg/L):	10
Effluent Flow for Aquatic Life (MGD)	5.85
% Effluent for Chronic Aquatic Life (Mixing Zone):	8
% Effluent for Acute Aquatic Life (ZID):	30
Oyster Waters?	**No**
Effluent Flow for Human Health (MGD):	5.85
% Effluent for Human Health:	4

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

Estuarine Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A		1.00	Assumed	1.00	Assumed
Arsenic	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Cadmium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (total)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (trivalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	4.85	-0.72	N/A	0.881		1.00	Assumed
Lead	6.06	-0.85	13489.63	0.381		1.00	Assumed
Mercury	N/A	N/A	162181.01	1.00	Assumed	1.00	Assumed
Nickel	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	5.86	-0.74	N/A	0.431		1.00	Assumed
Zinc	5.36	-0.52	131825.67	0.591		1.00	Assumed
			69183.10				

AQUATIC LIFE
CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*SW Acute Criterion (µg/L)*	*SW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrolein	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	1.3	N/A	4.33	N/A	1.39	N/A	2.03	4.31
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	149	78	497	975	159	595	233	494
Cadmium	40.0	8.75	133	109	42.7	66.7	62.7	132
Carbaryl	613	N/A	2043	N/A	654	N/A	961	2033
Chlordane	0.09	0.004	0.300	0.0500	0.0960	0.0305	0.0448	0.0948
Chlorpyrifos	0.011	0.006	0.0367	0.0750	0.0117	0.0458	0.0172	0.0364
Chromium (trivalent)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (hexavalent)	1090	49.6	3633	620	1163	378	555	1176
Copper	13.5	3.6	51.1	51.1	16.3	31.2	24.0	50.8
Copper (oyster waters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyanide (free)	5.6	5.6	18.7	70.0	5.97	42.7	8.78	18.5
4,4'-DDT	0.13	0.001	0.433	0.0125	0.139	0.0076 3	0.0112	0.0237
Demeton	N/A	0.1	N/A	1.25	N/A	0.763	1.12	2.37
Diazinon	0.819	0.819	2.73	10.2	0.874	6.24	1.28	2.71
Dicofol [Kelthane]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.71	0.002	2.37	0.0250	0.757	0.0153	0.0224	0.0474
Diuron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I (*alpha*)	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endosulfan II (*beta*)	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endosulfan sulfate	0.034	0.009	0.113	0.113	0.0363	0.0686	0.0533	0.112
Endrin	0.037	0.002	0.123	0.0250	0.0395	0.0153	0.0224	0.0474
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.125	N/A	0.0763	0.112	0.237
Heptachlor	0.053	0.004	0.177	0.0500	0.0565	0.0305	0.0448	0.0948
Hexachlorocyclohexane (*gamma*) [Lindane]	0.16	N/A	0.533	N/A	0.171	N/A	0.250	0.530
Lead	133	5.3	1162	174	372	106	155	329
Malathion	N/A	0.01	N/A	0.125	N/A	0.0763	0.112	0.237
Mercury	2.1	1.1	7.00	13.8	2.24	8.39	3.29	6.96
Methoxychlor	N/A	0.03	N/A	0.375	N/A	0.229	0.336	0.711
Mirex	N/A	0.001	N/A	0.0125	N/A	0.0076 3	0.0112	0.0237
Nickel	118	13.1	393	164	126	99.9	146	310
Nonylphenol	7	1.7	23.3	21.3	7.47	13.0	10.9	23.2
Parathion (ethyl)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	15.1	9.6	50.3	120	16.1	73.2	23.6	50.0
Phenanthrene	7.7	4.6	25.7	57.5	8.21	35.1	12.0	25.5
Polychlorinated Biphenyls [PCBs]	10	0.03	33.3	0.375	10.7	0.229	0.336	0.711
Selenium	564	136	1880	1700	602	1037	884	1870
Silver	2	N/A	15.5	N/A	4.95	N/A	7.27	15.3
Toxaphene	0.21	0.0002	0.700	0.00250	0.224	0.0015 3	0.00224	0.0047 4
Tributyltin [TBT]	0.24	0.0074	0.800	0.0925	0.256	0.0564	0.0829	0.175
2,4,5 Trichlorophenol	259	12	863	150	276	91.5	134	284
Zinc	92.7	84.2	523	1781	167	1086	245	520

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	115	2875	2674	3930	8315
Aldrin	1.147E-05	0.000287	0.000267	0.000392	0.000829
Anthracene	1317	32925	30620	45011	95228
Antimony	1071	26775	24901	36604	77441
Arsenic	N/A	N/A	N/A	N/A	N/A

Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	14525	13508	19857	42010
Benzidine	0.107	2.68	2.49	3.65	7.73
Benzo(*a*)anthracene	0.025	0.625	0.581	0.854	1.80
Benzo(*a*)pyrene	0.0025	0.0625	0.0581	0.0854	0.180
Bis(chloromethyl)ether	0.2745	6.86	6.38	9.38	19.8
Bis(2-chloroethyl)ether	42.83	1071	996	1463	3096
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	189	176	258	545
Bromodichloromethane [Dichlorobromomethane]	275	6875	6394	9398	19884
Bromoform [Tribromomethane]	1060	26500	24645	36228	76645
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	1150	1070	1572	3326
Chlordane	0.0025	0.0625	0.0581	0.0854	0.180
Chlorobenzene	2737	68425	63635	93543	197905
Chlorodibromomethane [Dibromochloromethane]	183	4575	4255	6254	13232
Chloroform [Trichloromethane]	7697	192425	178955	263064	556550
Chromium (hexavalent)	502	12550	11672	17157	36298
Chrysene	2.52	63.0	58.6	86.1	182
Cresols [Methylphenols]	9301	232525	216248	317884	672532
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.0500	0.0465	0.0683	0.144
4,4'-DDE	0.00013	0.00325	0.00302	0.00444	0.00939
4,4'-DDT	0.0004	0.0100	0.00930	0.0136	0.0289
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	11825	10997	16165	34201
1,2-Dibromoethane [Ethylene Dibromide]	4.24	106	98.6	144	306
m-Dichlorobenzene [1,3-Dichlorobenzene]	595	14875	13834	20335	43022
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	82475	76702	112751	238542
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	56.0	52.1	76.5	161
1,2-Dichloroethane	364	9100	8463	12440	26319
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	1377850	1281401	1883658	3985155
Dichloromethane [Methylene Chloride]	13333	333325	309992	455688	964075
1,2-Dichloropropane	259	6475	6022	8851	18727
1,3-Dichloropropene [1,3-Dichloropropylene]	119	2975	2767	4067	8604
Dicofol [Kelthane]	0.30	7.50	6.98	10.2	21.6
Dieldrin	2.0E-05	0.000500	0.000465	0.000683	0.00144
2,4-Dimethylphenol	8436	210900	196137	288321	609986
Di-*n*-Butyl Phthalate	92.4	2310	2148	3158	6681
Dioxins/Furans [TCDD Equivalents]	7.97E-08	0.0000020	0.0000019	0.0000027	0.0000058
Endrin	0.02	0.500	0.465	0.683	1.44
Epichlorohydrin	2013	50325	46802	68799	145554
Ethylbenzene	1867	46675	43408	63809	134998
Ethylene Glycol	1.68E+07	42000000	39060000	57418200	121476600
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.00250	0.00233	0.00341	0.00723
Heptachlor Epoxide	0.00029	0.00725	0.00674	0.00991	0.0209
Hexachlorobenzene	0.00068	0.0170	0.0158	0.0232	0.0491
Hexachlorobutadiene	0.22	5.50	5.12	7.51	15.9
Hexachlorocyclohexane (*alpha*)	0.0084	0.210	0.195	0.287	0.607
Hexachlorocyclohexane (*beta*)	0.26	6.50	6.05	8.88	18.7
Hexachlorocyclohexane (*gamma*) [Lindane]	0.341	8.53	7.93	11.6	24.6
Hexachlorocyclopentadiene	11.6	290	270	396	838
Hexachloroethane	2.33	58.3	54.2	79.6	168
Hexachlorophene	2.90	72.5	67.4	99.1	209
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	399550	371582	546224	1155618
Lead	3.83	251	233	343	726
Mercury	0.0250	0.625	0.581	0.854	1.80
Methoxychlor	3.0	75.0	69.8	102	216

Methyl Ethyl Ketone	9.92E+05	24800000	23064000	33904080	71729040
Methyl *tert*-butyl ether [MTBE]	10482	262050	243707	358248	757927
Nickel	1140	28500	26505	38962	82430
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	46825	43547	64014	135431
N-Nitrosodiethylamine	2.1	52.5	48.8	71.7	151
N-Nitroso-di-*n*-Butylamine	4.2	105	97.7	143	303
Pentachlorobenzene	0.355	8.88	8.25	12.1	25.6
Pentachlorophenol	0.29	7.25	6.74	9.91	20.9
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.0160	0.0149	0.0218	0.0462
Pyridine	947	23675	22018	32366	68475
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	6.00	5.58	8.20	17.3
1,1,2,2-Tetrachloroethane	26.35	659	613	900	1905
Tetrachloroethylene [Tetrachloroethylene]	280	7000	6510	9569	20246
Thallium	0.23	5.75	5.35	7.86	16.6
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.275	0.256	0.375	0.795
2,4,5-TP [Silvex]	369	9225	8579	12611	26681
1,1,1-Trichloroethane	784354	19608850	18236231	26807258	56714676
1,1,2-Trichloroethane	166	4150	3860	5673	12003
Trichloroethylene [Trichloroethene]	71.9	1798	1672	2457	5198
2,4,5-Trichlorophenol	1867	46675	43408	63809	134998
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	413	384	563	1193

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

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrolein	N/A	N/A
Aldrin	1.42	1.73
Aluminum	N/A	N/A
Arsenic	163	198
Cadmium	43.9	53.3
Carbaryl	672	817
Chlordane	0.0313	0.0381
Chlorpyrifos	0.0120	0.0146
Chromium (trivalent)	N/A	N/A
Chromium (hexavalent)	389	472
Copper	16.8	20.4
Copper (oyster waters)	N/A	N/A
Cyanide (free)	6.14	7.46
4,4'-DDT	0.00784	0.00952
Demeton	0.784	0.952
Diazinon	0.898	1.09
Dicofol [Kelthane]	N/A	N/A
Dieldrin	0.0156	0.0190
Diuron	N/A	N/A
Endosulfan I (*alpha*)	0.0373	0.0453
Endosulfan II (*beta*)	0.0373	0.0453
Endosulfan sulfate	0.0373	0.0453
Endrin	0.0156	0.0190
Guthion [Azinphos Methyl]	0.0784	0.0952
Heptachlor	0.0313	0.0381
Hexachlorocyclohexane (*gamma*) [Lindane]	0.175	0.213
Lead	109	132
Malathion	0.0784	0.0952
Mercury	2.30	2.79
Methoxychlor	0.235	0.285

Mirex	0.00784	0.00952
Nickel	102	124
Nonylphenol	7.68	9.32
Parathion (ethyl)	N/A	N/A
Pentachlorophenol	16.5	20.1
Phenanthrene	8.45	10.2
Polychlorinated Biphenyls [PCBs]	0.235	0.285
Selenium	619	751
Silver	5.08	6.17
Toxaphene	0.00156	0.00190
Tributyltin [TBT]	0.0580	0.0705
2,4,5 Trichlorophenol	94.1	114
Zinc	172	209

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2751	3340
Aldrin	0.000274	0.000333
Anthracene	31508	38260
Antimony	25622	31113
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	13899	16878
Benzidine	2.55	3.10
Benzo(*a*)anthracene	0.598	0.726
Benzo(*a*)pyrene	0.0598	0.0726
Bis(chloromethyl)ether	6.56	7.97
Bis(2-chloroethyl)ether	1024	1244
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	180	219
Bromodichloromethane [Dichlorobromomethane]	6579	7988
Bromoform [Tribromomethane]	25359	30793
Cadmium	N/A	N/A
Carbon Tetrachloride	1100	1336
Chlordane	0.0598	0.0726
Chlorobenzene	65480	79512
Chlorodibromomethane [Dibromochloromethane]	4378	5316
Chloroform [Trichloromethane]	184144	223604
Chromium (hexavalent)	12009	14583
Chrysene	60.2	73.2
Cresols [Methylphenols]	222519	270202
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0478	0.0581
4,4'-DDE	0.00311	0.00377
4,4'-DDT	0.00956	0.0116
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	11316	13741
1,2-Dibromoethane [Ethylene Dibromide]	101	123
m-Dichlorobenzene [1,3-Dichlorobenzene]	14234	17285
o-Dichlorobenzene [1,2-Dichlorobenzene]	78926	95838
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	53.5	65.0
1,2-Dichloroethane	8708	10574
1,1-Dichloroethylene [1,1-Dichloroethene]	1318561	1601109
Dichloromethane [Methylene Chloride]	318982	387335
1,2-Dichloropropane	6196	7524
1,3-Dichloropropene [1,3-Dichloropropylene]	2846	3457
Dicofol [Kelthane]	7.17	8.71
Dieldrin	0.000478	0.000581
2,4-Dimethylphenol	201824	245073

Di-*n*-Butyl Phthalate	2210	2684
Dioxins/Furans [TCDD Equivalents]	0.0000019	0.0000023
Endrin	0.478	0.581
Epichlorohydrin	48159	58479
Ethylbenzene	44666	54237
Ethylene Glycol	40192740 0	48805470 0
Fluoride	N/A	N/A
Heptachlor	0.00239	0.00290
Heptachlor Epoxide	0.00693	0.00842
Hexachlorobenzene	0.0162	0.0197
Hexachlorobutadiene	5.26	6.39
Hexachlorocyclohexane (*alpha*)	0.200	0.244
Hexachlorocyclohexane (*beta*)	6.22	7.55
Hexachlorocyclohexane (*gamma*) [Lindane]	8.15	9.90
Hexachlorocyclopentadiene	277	336
Hexachloroethane	55.7	67.6
Hexachlorophene	69.3	84.2
4,4'-Isopropylidenediphenol [Bisphenol A]	382357	464291
Lead	240	291
Mercury	0.598	0.726
Methoxychlor	71.7	87.1
Methyl Ethyl Ketone	23732856	28818468
Methyl *tert*-butyl ether [MTBE]	250773	304511
Nickel	27273	33117
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	44810	54412
N-Nitrosodiethylamine	50.2	61.0
N-Nitroso-di-*n*-Butylamine	100	122
Pentachlorobenzene	8.49	10.3
Pentachlorophenol	6.93	8.42
Polychlorinated Biphenyls [PCBs]	0.0153	0.0185
Pyridine	22656	27511
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	5.74	6.97
1,1,2,2-Tetrachloroethane	630	765
Tetrachloroethylene [Tetrachloroethylene]	6698	8134
Thallium	5.50	6.68
Toluene	N/A	N/A
Toxaphene	0.263	0.319
2,4,5-TP [Silvex]	8828	10719
1,1,1-Trichloroethane	18765081	22786170
1,1,2-Trichloroethane	3971	4822
Trichloroethylene [Trichloroethene]	1720	2088
2,4,5-Trichlorophenol	44666	54237
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	394	479

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Lake Jackson

PERMIT NUMBER: WQ0010047001

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

APPLICATION FOR A DOMESTIC WASTEWATER PERMIT ADMINISTRATIVE REPORT 1.0

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

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: 303917

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Lake Jackson

EPAY Voucher Number: Click here to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 29)

☐ New TPDES

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☒ Renewal without changes

☐ New TLAP

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

For amendments or modifications, describe the proposed changes: Click here to enter text.

For existing permits:

Permit Number: WQ0010047001

EPA I.D. (TPDES only): TX0025798

Expiration Date: August 14, 2024

Section 3. Facility Owner (Applicant) and Co-Applicant Information (Instructions Page 29)

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 Lake Jackson

(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: 600318984

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., Ms., Miss): Mr.

First and Last Name: Modesto Mundo

Credential (P.E, P.G., Ph.D., etc.): M.P.A. Master in Public Administration

Title: City Manager

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?

Not Applicable – POTW is run by the city alone.

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

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

CN: N/A

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

Prefix (Mr., Ms., Miss): Click here to enter text

First and Last Name: N/A

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

Title: Click here to enter text

Provide a brief description of the need for a co-permittee: Click here to enter text

C. Core Data Form

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

Attachment: A – Core Data Form

Section 4. Application Contact Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Debra Webb

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

Title: Interim Public Works Director

Organization Name: City Of Lake Jackson

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: 979-415-2424 Ext.: N/A Fax No.: N/A

E-mail Address: dwebb@lakejacksontx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Esteban Di Loreto

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

Title: Project Manager

Organization Name: Parra & Co., LLC

Mailing Address: 9595 Six Pines Drive, Suite 8210

City, State, Zip Code: The Woodlands, TX 77380

Phone No.: (281) 954-1468 Ext.: N/A Fax No.: N/A

E-mail Address: emdiloreto@parracompany.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

A. Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Debra Webb

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

Title: Interim Public Works Director

Organization Name: City of Lake Jackson

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: 979-415-2424 Ext.: N/A Fax No.: N/A

E-mail Address: dwebb@lakejacksontx.gov

B. Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Modesto Mundo

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

Title: City Manager

Organization Name: City of Lake Jackson

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: 979-415-2500 Ext.: N/A Fax No.: N/A

E-mail Address: mmundo@lakejacksontx.gov

Section 6. Billing Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Debra Webb

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

Title: Interim Public Works Director

Organization Name: City of Lake Jackson

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson TX, 77566

Phone No.: 979-415-2424 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: dwebb@lakejacksontx.gov

Section 7. DMR/MER Contact Information (Instructions Page 31)

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

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

First and Last Name: Carine Torrance

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

Title: Water and Wastewater Operations Foreman

Organization Name: City of Lake Jackson

Mailing Address: 25 Oak Dr.

City, State, Zip Code: Lake Jackson, Texas, 77566

Phone No.: 979-415-2691 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: ctorrance@lakejacksontx.gov

DMR data is required to be submitted electronically. Create an account at: https://www.tceq.texas.gov/permitting/netdmr/netdmr.html.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Debra Webb

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

Title: Interim Public Works Director

Organization Name: City of Lake Jackson

Mailing Address: 25 OAK DRIVE

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: 979-415-2424 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: dwebb@lakejacksontx.gov

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Richard Smith

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

Title: Utilities Superintendent

Organization Name: City of Lake Jackson

Phone No.: 979-248-4556 Ext.: Click here to enter text.

E-mail: rsmith@lakejacksontx.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: City Hall

Location within the building: Next To the Front Door of City Hall.

Physical Address of Building: 25 Oak Drive

City: Lake Jackson County: Brazoria

Contact Name: Administrator on duty at front desk

Phone No.: 979-415-2400 Ext.: Click here to enter text.

E. Bilingual Notice Requirements:

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☐ Yes ☒ No

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

F. 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 33)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN**101920338

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):

Dyson Campbell Water Reclamation Center

C. Owner of treatment facility: City of Lake Jackson

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

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

Prefix (Mr., Ms., Miss): N/A

First and Last Name: City of Lake Jackson

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: (979) 415-2400 E-mail Address: Click here to enter text

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 (Mr., Ms., Miss): N/A

First and Last Name: Click here to enter text

Mailing Address: Click here to enter text

City, State, Zip Code: Click here to enter text

Phone No.: Click here to enter text E-mail Address: Click here to enter text

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

Prefix (Mr., Ms., Miss): Not Applicable (Commercial Landfill)

First and Last Name: Click here to enter text

Mailing Address: Click here to enter text

City, State, Zip Code: Click here to enter text

Phone No.: Click here to enter text E-mail Address: Click here to enter text

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 34)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): City of Lake Jackson

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

Outfall Latitude: 29.0211 Longitude: -95.4589

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click here to enter text.

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.

Brazoria is the only county downstream of the discharge prior to entering the Gulf of Mexico.

Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No

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

N/A

B. City nearest the disposal site: Click here to enter text.

C. County in which the disposal site is located: Click here to enter text.

D. Disposal Site Latitude: Click here to enter text. Longitude: Click here to enter text.

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

N/A

F. 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 37)

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.

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:

Click here to enter text

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click here to enter text Amount past due: Click here to enter text

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click here to enter text Amount past due: Click here to enter text

Section 13. Attachments (Instructions Page 38)

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

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☐ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Click here to enter text.

Attachment A – Core Data Form
Attachment B - USGS MAP
Attachment C - Treatment Units
Attachment D - Process Flow Diagram
Attachment E - Site Drawing
Attachment F - Effluent Pollutant Analysis Lab Reports

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010047001

Applicant: City of Lake Jackson

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): Modesto Mundo

Signatory title: City Manager

Signature: _____ Date: 1/31/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Modesto Mundo

on this 31st day of January, 20 24.

My commission expires on the 15th day of December, 20 27.

_____

Notary Public

XITLALLY VILLAFANA
Notary Public, State of Texas
Comm. Expires 12-15-2027
Notary ID 128316534

[SEAL]

Brazoria, Texas

County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in 30 Texas Administrative Code §39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

City of Lake Jackson (CN600318984) operates Dyson Campbell Water Reclamation Center RN101920338. a Domestic Wastewater Treatment Plant with conventional activated sludge and nitrification. The facility is located 151 Canna Lane, in Lake Jackson, Brazoria County, Texas 77566.

The application is for a renewal to the authorization to discharge up to 5,850,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand, total suspended solids, ammonia nitrogen, and E. coli. Additional potential parameters are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant with nitrification operated in the conventional mode. Treatment units include grit removal, aeration basins, final clarifiers, chlorine contact basins, gravity thickener, anerobic sludge digesters, and belt-filter presses.

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

AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Lake Jackson (CN600318984) opera Dyson Campbell Reclamation Center RN101920339 una Planta de Tratamiento de Aguas Residuales - La instalación esta ubicada en 151 Canna Lane, en la ciudad de Lake Jackson, en el condado de Brazoria, Texas 77566.

La solicitud busca renovar la autorización para verter hasta 5,850,000 galones diarios de aguas residuales domésticas tratadas a través del emisario 001.

Las descargas de la instalación se espera que contengan demanda bioquímica de oxígeno carbonáceo de cinco días, sólidos suspendidos totales, nitrógeno amoniacal y E. coli. Parámetros adicionales potenciales se incluyen en el Informe Técnico Doméstico 1.0, Sección 7. Análisis de Contaminantes del Efluente Tratado y Hoja de Trabajo Doméstica 4.0 en el paquete de solicitud de permiso. Las aguas residuales domésticas son tratadas por una planta de procesamiento de lodos activados con nitrificación operada en modo convencional. Las unidades de tratamiento incluyen la eliminación de arena, balsas de aireación, clarificadores finales, balsas de contacto con cloro, espesador por gravedad, digestores de lodos anaerobios y prensas de filtro de banda.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC 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)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

Do not refer to a response of any item in the permit application form. Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: City of Lake Jackson

   Permit No. WQ00 10047001 EPA ID No. TX 0025798

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

   151 Canna Lane, City of Lake Jackson, Brazoria County, Texas 77566

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

First and Last Name: Debra Webb

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

Title: Interim Public Works Director

Mailing Address: 25 Oak Drive

City, State, Zip Code: Lake Jackson, TX 77566

Phone No.: 979-415-2680 Ext.: N/A Fax No.: N/A

E-mail Address: dwebb@lakejacksontx.gov

2. List the county in which the facility is located: Brazoria County
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Owner is the same as the applicant.

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.

Brazos River tidal in segment no. 1201 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).

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

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features
- ☐ Disturbance of vegetation or wetlands

6. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

N/A

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

N/A

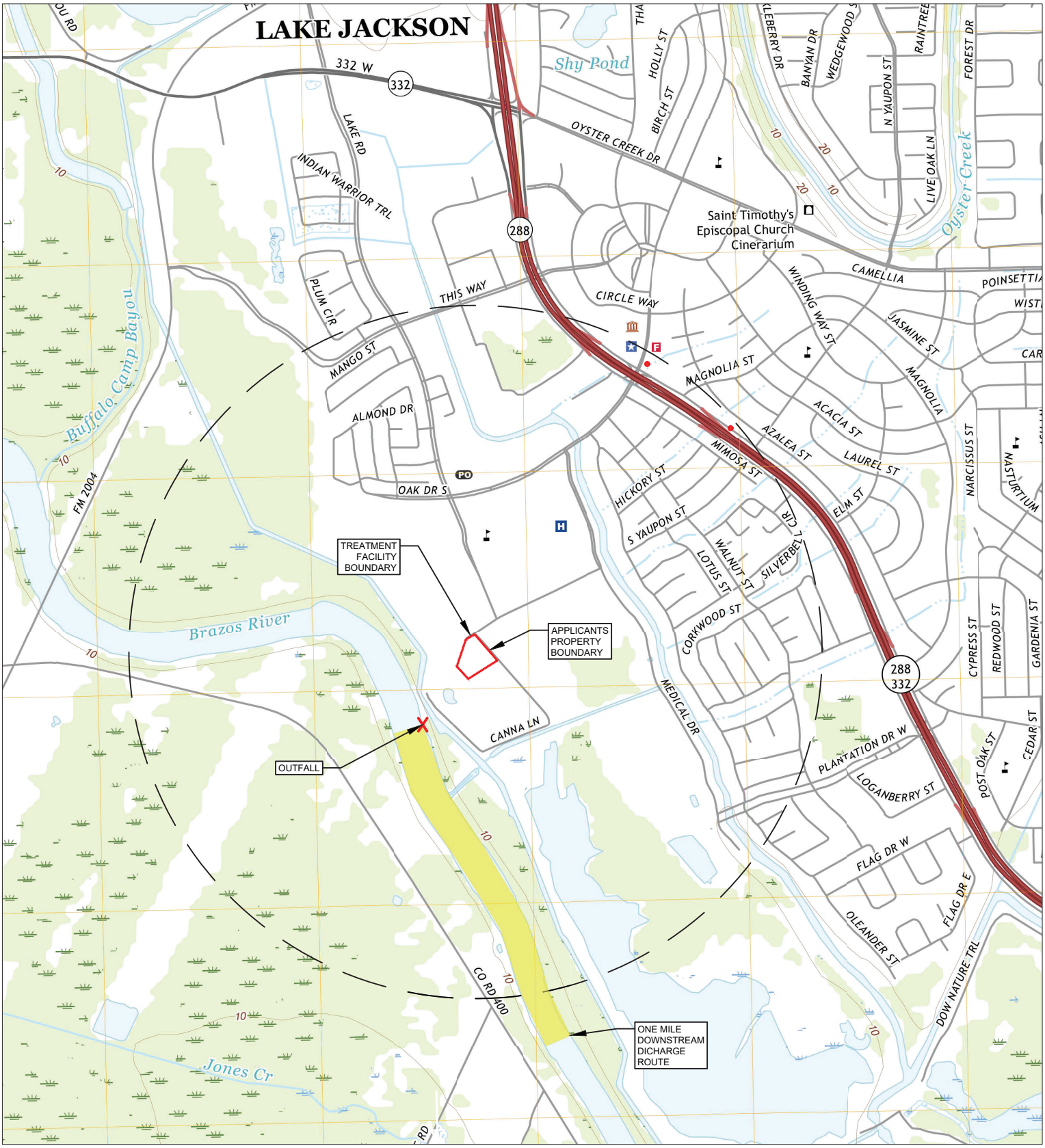
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

8. List construction dates of all buildings and structures on the property:

Click here to enter text.

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

Click here to enter text.



110 E. HOUSTON STREET. FLOOR 7
SAN ANTONIO, TX 78205
(210) 819-4848
WWW.PARRACOMPANY.COM
TBPE F-17744

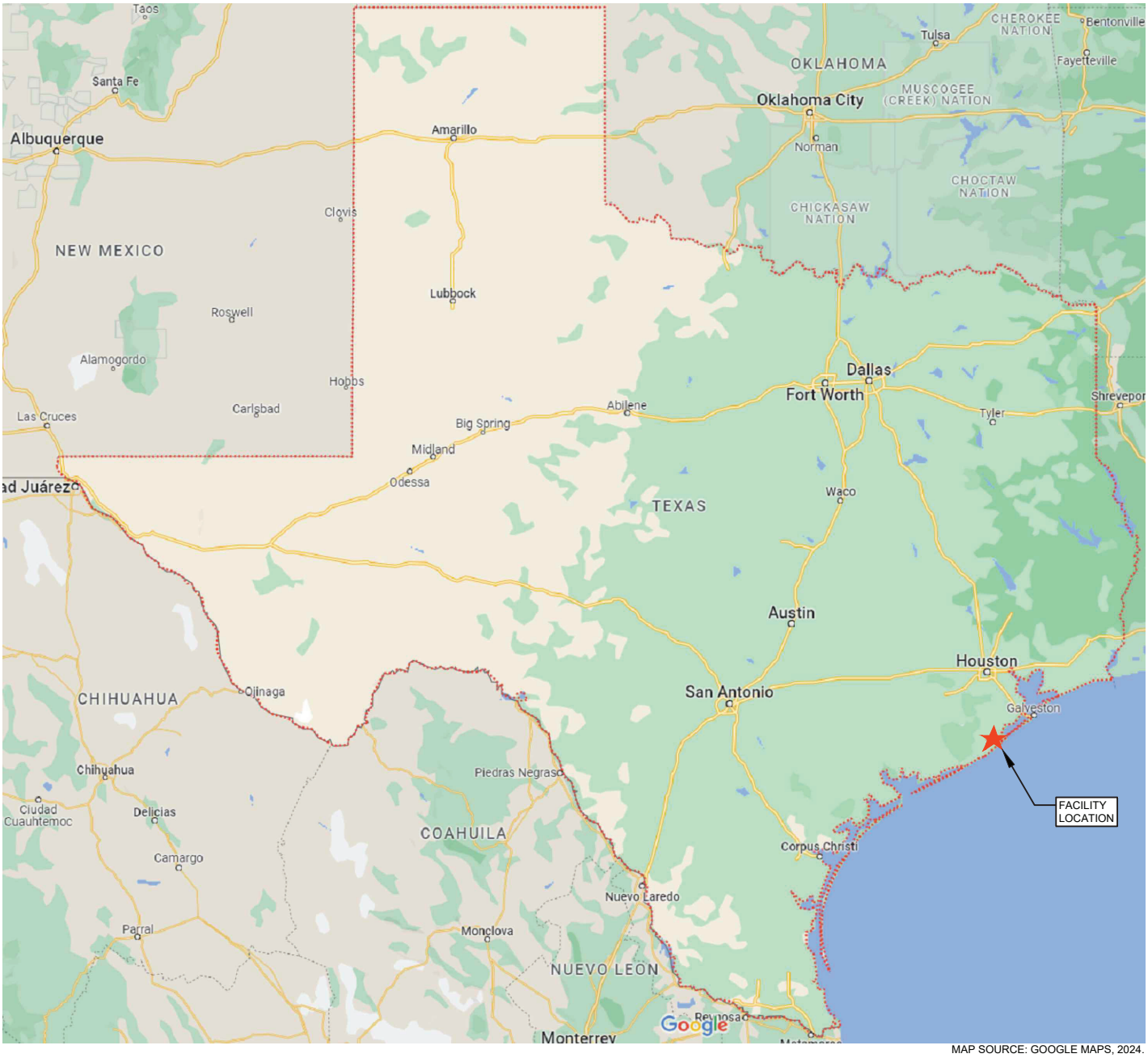
USGS SPIF 1

DYSON CAMPBELL WATER RECLAMATION CENTER

151 CANNA LN, LAKE JACKSON, TX 77566

Scale: 1"= 24,000"

Date: 02/07/2024



MAP SOURCE: GOOGLE MAPS, 2024.

110 E. HOUSTON STREET. FLOOR 7
SAN ANTONIO, TX 78205
(210) 819-4848
WWW.PARRACOMPANY.COM
TBPE F-17744

PARRA&CO

GENERAL LOCATION SPIF 2

DYSON CAMPBELL WATER RECLAMATION CENTER

151 CANNA LN, LAKE JACKSON, TX 77566

Date: 01/29/2024

CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

The Following Is Required For All Applications

Renewal, New, And Amendment

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 5.85

2-Hr Peak Flow (MGD): 19.93

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current operating phase: Existing/ no expansions planned at this time

Provide the startup date of the facility: 07/01/2004

Section 2. Treatment Process (Instructions Page 51)

A. Treatment 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 in the permit, a description of *each phase* must be provided**. Process description:

The WW treatment process is Conventional Activated Sludge with Nitrification, which begins with raw sewage entering fine screens for preliminary screening. The screened material is then conveyed to grit removal systems, where grit pumps transfer the waste to a grit dewatering classifier. From there, the flow is directed to an equalization basin, followed by an aeration basin for biological treatment. The mixture then proceeds to clarifiers, and subsequently to chlorination and dechlorination basins for disinfection. Finally, the treated effluent is pumped out, eventually discharging into the Brazos River. The process also includes sludge treatment through gravity thickeners, belt press dewatering, and aerobic digesters. The entire system is monitored and controlled through various flow meters, ensuring that the operation complies with the necessary environmental regulations.

Port or pipe diameter at the discharge point, in inches: 36

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)
Grit Removal	1	18' x 24' x 25'
Clarifier	2	Diam= 10', D= 30'
Aeration Basin	9	60' x 20' x 24'
RAS Pump Station	1	40' x 18' x 24'
Flume	1	24' x 16' x
Chlorine Basins	1	125' x 70' x 13'
Digesters	2	30' x 39.6' x 13'
CI2 & SO2	1	30' x 34' x
Admin Controls	1	96' x 42' x 19'
Sludge Dewater	1	52' x 90.6' x 25'

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Blower	1	61’ x 36’ x 25’
Equalization Basin	1	50’ x 50’ x 20’

C. Process flow diagrams

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

Attachment: D

Section 3. Site Drawing (Instructions Page 52)

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.

City of Lake Jackson (City Limits)

Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

N/A

Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 53)

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

A. Summary transmittal

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

Yes ☒ No ☐

If yes, provide the date(s) of approval for each phase: N/A

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

The plans and specifications have been submitted for the existing facilities.

B. Buffer zones

Have the buffer zone requirements been met?

Yes ☒ No ☐

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

N/A

C. Other actions required by the current permit

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

Yes ☐ No ☒

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

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.

Click here to enter text.

3. Grit disposal

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

Yes ☐ No ☐

If No, contact the TCEQ Municipal Solid Waste team at 512-239-0000. 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.

Click here to enter text.

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 512-239-0000.

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

Click here to enter text.

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 AL65 or TXRNE Click here to enter text

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

Yes ☐ No ☐

3. Conditional exclusion

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

Yes ☐ No ☒

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

N/A

4. Existing coverage in individual permit

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

Yes ☐ No ☒

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

N/A

5. Zero stormwater discharge

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

Yes ☐ No ☒

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

N/A

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

6. Request for coverage in individual permit

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

Yes ☐ No ☒

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

the treatment plant headworks and indirectly discharge it to water in the state.

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?
Yes ☐ No ☒

If yes, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

Does the facility accept or will it 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 that the plant started accepting sludge 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 a the date that the plant started accepting septic waste, 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 the facility accepting or will it 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.

POTW receives wastewater from the Dow Innovation Center, which is a research laboratory. Per an EPA regulatory clarification issued June 26,1987, research and development facilities are not subject to categorical standards. This information has not changed since the last permit application.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

Is the facility in operation?

Yes ☐ No ☐ See Attachment F.

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).

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3.3	3.3	1	Comp.	10/31/23 @7:00am
Total Suspended Solids, mg/l	4.0	4.0	1	Comp.	10/31/23 @7:00am
Ammonia Nitrogen, mg/l	<0.20	<0.20	1	Comp.	10/31/23 @7:00am
Nitrate Nitrogen, mg/l	23.3	23.3	1	Comp.	10/31/23 @7:00am
Total Kjeldahl Nitrogen, mg/l	<0.50	<0.50	1	Comp.	10/31/23 @7:00am
Sulfate, mg/l	88.5	88.5	1	Comp.	10/31/23 @7:00am
Chloride, mg/l	268	268	1	Comp.	10/31/23 @7:00am
Total Phosphorus, mg/l	1.14	1.14	1	Comp.	10/31/23 @7:00am
pH, standard units	7.61	7.61	1	Grab	1/26/204 @7:30am
Dissolved Oxygen*, mg/l	11.22	11.22	1	Grab	1/26/24 @7:30am
Chlorine Residual, mg/l	0.01	0.01	1	Grab	1/26/24 @ 7:30am
E.coli (CFU/100ml) freshwater	N/A	N/A	N/A	N/A	N/A

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Entercocci (CFU/100ml) saltwater	1	1	1	Grab	1/26/24 @ 7:30am
Total Dissolved Solids, mg/l	914	914	1	Comp.	10/31/23 @7:00am
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	10/31/23 @7:00am
Alkalinity ($CaCO_3$)*, mg/l	162	162	1	Comp.	10/31/23 @7:00am

*TPDES permits only

†TLAP permits only

Table 1.0(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 60)

Facility Operator Name: **Debra Webb**

Facility Operator's License Classification and Level: **Class B**

Facility Operator's License Number: **WW0059517**

Section 9. Sewage Sludge Management and Disposal (Instructions

Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- ☒ Permitted landfill
- ☐ Permitted or Registered land application site for beneficial use
- ☐ Land application for beneficial use authorized in the wastewater permit
- ☐ Permitted sludge processing facility
- ☐ Marketing and distribution as authorized in the wastewater permit
- ☐ Composting as authorized in the wastewater permit
- ☐ Permitted surface disposal site (sludge monofill)
- ☐ Surface disposal site (sludge monofill) authorized in the wastewater permit
- ☐ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- ☐ Other: Click here to enter text

B. Sludge disposal site

Disposal site name: Seabreeze Landfill

TCEQ permit or registration number: 1539C

County where disposal site is located: Brazoria

C. Sludge transportation method

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

Name of the hauler: City of Lake Jackson

Hauler registration number: 24022

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

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

Sludge Composting	Yes ☐	No ☒
Marketing and Distribution of sludge	Yes ☐	No ☒
Sludge Surface Disposal or Sludge Monofill	Yes ☐	No ☒
Temporary storage in sludge lagoons	Yes ☐	No ☒

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

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: Click here to enter text.

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click here to enter text.

- Federal Emergency Management Map:

  Attachment: Click here to enter text.

- Site map:

  Attachment: Click here to enter text.

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: Click here to enter text.

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:

Click here to enter text.

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: Click here to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click here to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click here to enter text.

Phosphorus, mg/kg: Click here to enter text.

Potassium, mg/kg: Click here to enter text.

pH, standard units: Click here to enter text.

Ammonia Nitrogen mg/kg: Click here to enter text.

Arsenic: Click here to enter text.

Cadmium: Click here to enter text.

Chromium: Click here to enter text.

Copper: Click here to enter text.

Lead: Click here to enter text.

Mercury: Click here to enter text.

Molybdenum: Click here to enter text.

Nickel: Click here to enter text.

Selenium: Click here to enter text.

Zinc: Click here to enter text.

Total PCBs: Click here to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click here to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click here to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click here to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

Yes ☐ No ☐

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

Click here to enter text

D. Site development plan

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

Click here to enter text

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click here to enter text

- Copy of the closure plan

  Attachment: Click here to enter text

- Copy of deed recordation for the site

  Attachment: Click here to enter text

- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click here to enter text

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click here to enter text

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click here to enter text

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: Click here to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

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:

R10074-001 Granted by TCEQ August 14, 2019, which allows treated effluent to be placed into Dow chemical´s raw water canal. This is a 210 authorization (Type II)

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 63)

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 64)

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: Modesto Mundo

Title: City Manager

Signature: Modesto Mundo

Date: 1/31/2024

DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

RECEIVING WATERS

The following is required for all TPDES permit applications

Section 1. Domestic Drinking Water Supply (Instructions Page 73)

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 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 73)

Does the facility discharge into tidally affected waters?

Yes ☒ No ☐

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: 470

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☒

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

N/A Click here to enter text.

C. Sea grasses

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

Yes ☐ No ☒

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

N/A.

Section 3. Classified Segments (Instructions Page 73)

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 75)

Name of the immediate receiving waters: Click here to enter text

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click here to enter text

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click here to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click here to enter text.

C. Downstream perennial confluences

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

Click here to enter text.

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.

Click here to enter text

E. Normal dry weather characteristics

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

Click here to enter text

Date and time of observation: Click here to enter text

Was the water body influenced by stormwater runoff during observations?

Yes ☐ No ☐

Section 5. General Characteristics of the Waterbody (Instructions Page 74)

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
☐ Urban runoff
☐ Upstream discharges
☐ Agricultural runoff
☐ Septic tanks
☐ Other(s), specify Click here to enter text

B. Waterbody uses

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

☐ Livestock watering
☐ Contact recreation
☐ Irrigation withdrawal
☐ Non-contact recreation
☐ Fishing
☐ Navigation

☐ Domestic water supply ☐ Industrial water supply

☐ Park activities ☐ Other(s), specify Click here to enter text.

C. Waterbody aesthetics

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

☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional

☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored

☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid

☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES 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 for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☒ Composite ☒ **See Attachment F.**

Date and time sample(s) collected: click here to enter text

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	**<8.0**	**<8.0**	**1**	50
Aldrin	**<0.01**	**<0.01**	**1**	0.01
Aluminum	**21.9**	**21.9**	**1**	2.5
Anthracene	**<0.10**	**<0.10**	**1**	10
Antimony	**<5.0**	**<5.0**	**1**	5
Arsenic	**0.8**	**0.8**	**1**	0.5
Barium	**109**	**109**	**1**	3
Benzene	**<1.0**	**<1.0**	**1**	10
Benzidine	**<0.20**	**<0.20**	**1**	50
Benzo(a)anthracene	**<0.10**	**<0.10**	**1**	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene	**<0.10**	**<0.10**	**1**	5
Bis(2-chloroethyl)ether	**<0.20**	**<0.20**	**1**	10
Bis(2-ethylhexyl)phthalate	**<0.20**	**<0.20**	**1**	10
Bromodichloromethane	**24**	**24**	**1**	10
Bromoform	**2.2**	**2.2**	**1**	10
Cadmium	**<0.50**	**<0.50**	**1**	1
Carbon Tetrachloride	**<1.0**	**<1.0**	**1**	2
Carbaryl				5
Chlordane*	**<0.0500**	**<0.0500**	**1**	0.2
Chlorobenzene	**<1.0**	**<1.0**	**1**	10
Chlorodibromomethane	**13**	**13**	**1**	10
Chloroform	**21**	**21**	**1**	10
Chlorpyrifos				0.05
Chromium (Total)	**<3.0**	**<3.0**	**1**	3
Chromium (Tri) **(*1)**	**<3.0**	**<3.0**	**1**	N/A
Chromium (Hex)	**<3.0**	**<3.0**	**1**	3
Copper	**9.0**	**9.0**	**1**	2
Chrysene	**<0.10**	**<0.10**	**1**	5
p-Chloro-m-Cresol	**<0.20**	**<0.20**	**1**	10
4,6-Dinitro-o-Cresol	**<0.20**	**<0.20**	**1**	50
p-Cresol	**<10**	**<10**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide **(*2)**	**<10.0**	**<10.0**	**1**	10
4,4'- DDD	**<0.100**	**<0.100**	**1**	0.1
4,4'- DDE	**<0.100**	**<0.100**	**1**	0.1
4,4'- DDT	**<0.02**	**<0.02**	**1**	0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane	**<0.2**	**<0.2**	**1**	10
m-Dichlorobenzene	**<1.0**	**<1.0**	**1**	10
o-Dichlorobenzene	**<1.0**	**<1.0**	**1**	10
p-Dichlorobenzene	**<1.0**	**<1.0**	**1**	10
3,3'-Dichlorobenzidine	**<0.20**	**<0.20**	**1**	5
1,2-Dichloroethane	**<1.0**	**<1.0**	**1**	10
1,1-Dichloroethylene	**<1.0**	**<1.0**	**1**	10
Dichloromethane	**<2.0**	**<2.0**	**1**	20
1,2-Dichloropropane	**<1.0**	**<1.0**	**1**	10
1,3-Dichloropropene	**<1.0**	**<1.0**	**1**	10
Dicofol	**<0.1**	**<0.1**	**1**	1
Dieldrin	**<0.004**	**<0.004**	**1**	0.02
2,4-Dimethylphenol	**<0.20**	**<0.20**	**1**	10
Di-n-Butyl Phthalate	**<0.20**	**<0.20**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron				0.09
Endosulfan I (alpha)	**<0.01**	**<0.01**	**1**	0.01
Endosulfan II (beta)	**<0.01**	**<0.01**	**1**	0.02
Endosulfan Sulfate	**<0.100**	**<0.100**	**1**	0.1
Endrin	**<0.01**	**<0.01**	**1**	0.02
Ethylbenzene	**<1.0**	**<1.0**	**1**	10
Fluoride	**920**	**920**	**1**	500
Guthion				0.1
Heptachlor	**<0.009**	**<0.009**	**1**	0.01
Heptachlor Epoxide	**<0.01**	**<0.01**	**1**	0.01
Hexachlorobenzene	**<0.20**	**<0.20**	**1**	5
Hexachlorobutadiene	**<0.20**	**<0.20**	**1**	10
Hexachlorocyclohexane (alpha)	**<0.0500**	**<0.0500**	**1**	0.05
Hexachlorocyclohexane (beta)	**<0.0500**	**<0.0500**	**1**	0.05
gamma-Hexachlorocyclohexane (Lindane)	**<0.0500**	**<0.0500**	**1**	0.05
Hexachlorocyclopentadiene	**<0.20**	**<0.20**	**1**	10
Hexachloroethane	**<0.20**	**<0.20**	**1**	20
Hexachlorophene				10
Lead	**<0.5**	**<0.5**	**1**	0.5
Malathion				0.1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury	**0.00132**	**0.00132**	**1**	0.005
Methoxychlor	**<0.500**	**<0.500**	**1**	2
Methyl Ethyl Ketone	**<2.0**	**<2.0**	**1**	50
Mirex	**<0.02**	**<0.02**	**1**	0.02
Nickel	**3.6**	**3.6**	**1**	2
Nitrate-Nitrogen	**23300**	**23300**	**1**	100
Nitrobenzene	**<0.20**	**<0.20**	**1**	10
N-Nitrosodiethylamine	**<10**	**<10**	**1**	20
N-Nitroso-di-n-Butylamine	**<10**	**<10**	**1**	20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene	**<10**	**<10**	**1**	20
Pentachlorophenol	**<0.20**	**<0.20**	**1**	5
Phenanthrene	**<0.10**	**<0.10**	**1**	10
Polychlorinated Biphenyls (PCB's) **(*3)**				0.2
Pyridine	**<10**	**<10**	**1**	20
Selenium	**<5.0**	**<5.0**	**1**	5
Silver	**0.5**	**0.5**	**1**	0.5
1,2,4,5-Tetrachlorobenzene	**<10**	**<10**	**1**	20
1,1,2,2-Tetrachloroethane	**<1.0**	**<1.0**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene	**<1.0**	**<1.0**	**1**	10
Thallium	**<0.5**	**<0.5**	**1**	0.5
Toluene	**<1.0**	**<1.0**	**1**	10
Toxaphene	**<0.02**	**<0.02**	**1**	0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)	**N/A**	**N/A**	**N/A**	0.01
1,1,1-Trichloroethane	**<1.0**	**<1.0**	**1**	10
1,1,2-Trichloroethane	**<1.0**	**<1.0**	**1**	10
Trichloroethylene	**<1.0**	**<1.0**	**1**	10
2,4,5-Trichlorophenol	**<0.20**	**<0.20**	**1**	50
TTHM (Total Trihalomethanes)	**60.2**	**60.2**	**1**	10
Vinyl Chloride	**<1.0**	**<1.0**	**1**	10
Zinc	**91.3**	**91.3**	**1**	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

Date and time sample(s) collected: Click here to enter text

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	**<5.0**	**<5.0**	**1**	5
Arsenic	**0.8**	**0.8**	**1**	0.5
Beryllium	**<0.5**	**<0.5**	**1**	0.5
Cadmium	**<0.50**	**<0.50**	**1**	1
Chromium (Total)	**<3.0**	**<3.0**	**1**	3
Chromium (Hex)	**<3.0**	**<3.0**	**1**	3
Chromium (Tri) (*1)	**<3.0**	**<3.0**	**1**	N/A
Copper	**9.0**	**9.0**	**1**	2
Lead	**<0.5**	**<0.5**	**1**	0.5
Mercury	**0.00132**	**0.00132**	**1**	0.005
Nickel	**3.6**	**3.6**	**1**	2
Selenium	**<5.0**	**<5.0**	**1**	5
Silver	**0.5**	**0.5**	**1**	0.5
Thallium	**<0.5**	**<0.5**	**1**	0.5
Zinc	**91.3**	**91.3**	**1**	5
Cyanide (*2)	**<10.0**	**<10.0**	**1**	10
Phenols, Total	**<10.0**	**<10.0**	**1**	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	**<8.0**	**<8.0**	**1**	50
Acrylonitrile	**<2.0**	**<2.0**	**1**	50
Benzene	**<1.0**	**<1.0**	**1**	10
Bromoform	**2.2**	**2.2**	**1**	10
Carbon Tetrachloride	**<1.0**	**<1.0**	**1**	2
Chlorobenzene	**<1.0**	**<1.0**	**1**	10
Chlorodibromomethane	**13**	**13**	**1**	10
Chloroethane	**<1.0**	**<1.0**	**1**	50
2-Chloroethylvinyl Ether	**<2.0**	**<2.0**	**1**	10
Chloroform	**21**	**21**	**1**	10
Dichlorobromomethane [Bromodichloromethane]	**24**	**24**	**1**	10
1,1-Dichloroethane	**<1.0**	**<1.0**	**1**	10
1,2-Dichloroethane	**<1.0**	**<1.0**	**1**	10
1,1-Dichloroethylene	**<1.0**	**<1.0**	**1**	10
1,2-Dichloropropane	**<1.0**	**<1.0**	**1**	10
1,3-Dichloropropylene [1,3-Dichloropropene]	**<1.0**	**<1.0**	**1**	10
1,2-Trans-Dichloroethylene	**<1.0**	**<1.0**	**1**	10
Ethylbenzene	**<1.0**	**<1.0**	**1**	10
Methyl Bromide	**<1.0**	**<1.0**	**1**	50
Methyl Chloride	**<1.0**	**<1.0**	**1**	50
Methylene Chloride	**<2.0**	**<2.0**	**1**	20
1,1,2,2-Tetrachloroethane	**<1.0**	**<1.0**	**1**	10
Tetrachloroethylene	**<1.0**	**<1.0**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene	**<1.0**	**<1.0**	**1**	10
1,1,1-Trichloroethane	**<1.0**	**<1.0**	**1**	10
1,1,2-Trichloroethane	**<1.0**	**<1.0**	**1**	10
Trichloroethylene	**<1.0**	**<1.0**	**1**	10
Vinyl Chloride	**<1.0**	**<1.0**	**1**	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	**<0.20**	**<0.20**	**1**	10
2,4-Dichlorophenol	**<0.20**	**<0.20**	**1**	10
2,4-Dimethylphenol	**<0.20**	**<0.20**	**1**	10
4,6-Dinitro-o-Cresol	**<0.20**	**<0.20**	**1**	50
2,4-Dinitrophenol	**<1.0**	**<1.0**	**1**	50
2-Nitrophenol	**<0.20**	**<0.20**	**1**	20
4-Nitrophenol	**<1.0**	**<1.0**	**1**	50
P-Chloro-m-Cresol	**<0.20**	**<0.20**	**1**	10
Pentalchlorophenol	**<0.20**	**<0.20**	**1**	5
Phenol	**<0.20**	**<0.20**	**1**	10
2,4,6-Trichlorophenol	**<0.20**	**<0.20**	**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	**<0.10**	**<0.10**	**1**	10
Acenaphthylene	**<0.10**	**<0.10**	**1**	10
Anthracene	**<0.10**	**<0.10**	**1**	10
Benzidine	**<0.20**	**<0.20**	**1**	50
Benzo(a)Anthracene	**<0.10**	**<0.10**	**1**	5
Benzo(a)Pyrene	**<0.10**	**<0.10**	**1**	5
3,4-Benzofluoranthene	**<0.10**	**<0.10**	**1**	10
Benzo(ghi)Perylene	**<0.10**	**<0.10**	**1**	20
Benzo(k)Fluoranthene	**<0.10**	**<0.10**	**1**	5
Bis(2-Chloroethoxy)Methane	**<0.20**	**<0.20**	**1**	10
Bis(2-Chloroethyl)Ether	**<0.20**	**<0.20**	**1**	10
Bis(2-Chloroisopropyl)Ether	**<0.20**	**<0.20**	**1**	10
Bis(2-Ethylhexyl)Phthalate	**<0.20**	**<0.20**	**1**	10
4-Bromophenyl Phenyl Ether	**<0.20**	**<0.20**	**1**	10
Butyl benzyl Phthalate	**<0.20**	**<0.20**	**1**	10
2-Chloronaphthalene	**<0.10**	**<0.10**	**1**	10
4-Chlorophenyl phenyl ether	**<0.20**	**<0.20**	**1**	10
Chrysene	**<0.10**	**<0.10**	**1**	5
Dibenzo(a,h)Anthracene	**<0.10**	**<0.10**	**1**	5
1,2-(o)Dichlorobenzene	**<0.20**	**<0.20**	**1**	10
1,3-(m)Dichlorobenzene	**<0.20**	**<0.20**	**1**	10
1,4-(p)Dichlorobenzene	**<0.20**	**<0.20**	**1**	10
3,3-Dichlorobenzidine	**<0.20**	**<0.20**	**1**	5
Diethyl Phthalate	**<0.20**	**<0.20**	**1**	10
Dimethyl Phthalate	**<0.20**	**<0.20**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di-n-Butyl Phthalate	**<0.20**	**<0.20**	**1**	10
2,4-Dinitrotoluene	**<0.20**	**<0.20**	**1**	10
2,6-Dinitrotoluene	**<0.20**	**<0.20**	**1**	10
Di-n-Octyl Phthalate	**<0.20**	**<0.20**	**1**	10
1,2-Diphenylhydrazine (as Azo-benzene)	**<0.20**	**<0.20**	**1**	20
Fluoranthene	**<0.10**	**<0.10**	**1**	10
Fluorene	**<0.10**	**<0.10**	**1**	10
Hexachlorobenzene	**<0.20**	**<0.20**	**1**	5
Hexachlorobutadiene	**<0.20**	**<0.20**	**1**	10
Hexachlorocyclo-pentadiene	**<0.20**	**<0.20**	**1**	10
Hexachloroethane	**<0.20**	**<0.20**	**1**	20
Indeno(1,2,3-cd)pyrene	**<0.10**	**<0.10**	**1**	5
Isophorone	**<0.20**	**<0.20**	**1**	10
Naphthalene	**<0.10**	**<0.10**	**1**	10
Nitrobenzene	**<0.20**	**<0.20**	**1**	10
N-Nitrosodimethylamine	**<0.20**	**<0.20**	**1**	50
N-Nitrosodi-n-Propylamine	**<0.20**	**<0.20**	**1**	20
N-Nitrosodiphenylamine	**<0.20**	**<0.20**	**1**	20
Phenanthrene	**<0.10**	**<0.10**	**1**	10
Pyrene	**<0.10**	**<0.10**	**1**	10
1,2,4-Trichlorobenzene	**<0.20**	**<0.20**	**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)	**<0.0500**	**<0.0500**	**1**	0.05
beta-BHC (Hexachlorocyclohexane)	**<0.0500**	**<0.0500**	**1**	0.05
gamma-BHC (Hexachlorocyclohexane)	**<0.0500**	**<0.0500**	**1**	0.05
delta-BHC (Hexachlorocyclohexane)	**<0.0500**	**<0.0500**	**1**	0.05
Chlordane				0.2
4,4-DDT	**<0.02**	**<0.02**	**1**	0.02
4,4-DDE	**<0.100**	**<0.100**	**1**	0.1
4,4,-DDD	**<0.100**	**<0.100**	**1**	0.1
Dieldrin	**<0.004**	**<0.004**	**1**	0.02
Endosulfan I (alpha)	**<0.01**	**<0.01**	**1**	0.01
Endosulfan II (beta)	**<0.01**	**<0.01**	**1**	0.02
Endosulfan Sulfate	**<0.100**	**<0.100**	**1**	0.1
Endrin	**<0.100**	**<0.100**	**1**	0.02
Endrin Aldehyde	**<0.100**	**<0.100**	**1**	0.1
Heptachlor	**<0.009**	**<0.009**	**1**	0.01
Heptachlor Epoxide	**<0.01**	**<0.01**	**1**	0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene	**0.2**	**0.2**	**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.

Click here to enter text

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: Click here to enter text

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	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	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WORKSHEET 5.0

TOXICITY TESTING REQUIREMENTS

The following is required for facilities with a currently-operating design flow greater than or equal to 1.0 MGD, with an EPA-approved pretreatment program (or those that are required to have one under 40 CFR Part 403), or are required by the TCEQ to perform Whole Effluent Toxicity testing. This worksheet is not required for minor amendments without renewal.

Section 1. Required Tests (Instructions Page 97)

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: Mysid Shrimp (17 tests) and Inland Silverside (16 tests).

48-hour Acute: N/A.

Section 2. Toxicity Reduction Evaluations (TREs)

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

Yes ☐ No ☒

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

Click here to enter text

Section 3. Summary of WET Tests

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

Table 5.0(1) – Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
Previously Submitted			

DOMESTIC WORKSHEET 6.0

INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works (POTWs)

Section 1. All POTWs (Instructions Page 99)

A. Industrial users

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 (zero)

Average Daily Flows, in MGD: >0.01

Significant IUs – non-categorical:

Number of IUs: 0 (zero)

Average Daily Flows, in MGD: >0.01

Other IUs:

Number of IUs: 0 (zero)

Average Daily Flows, in MGD: >0.01

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.

Click here to enter text

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.

Click here to enter text

D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

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

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

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 100)

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.

Click here to enter text

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.

Click here to enter text

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

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.

Click here to enter text

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 100)

A. General information

Company Name: N/A all section

SIC Code: Click here to enter text

Telephone number: Click here to enter text Fax number: Click here to enter text

Contact name: Click here to enter text

Address: Click here to enter text

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

B. Process information

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

Click here to enter text

C. Product and service information

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

Click here to enter text

D. Flow rate information

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

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

Category: Click here to enter text
Subcategories: Click here to enter text

F. Industrial user interruptions

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

Yes ☐ No ☐

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

Attachment A – Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600318984		**RN 101920338**

SECTION II: Customer Information

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

☐ 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 LAKE JACKSON

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:

25 Oak Drive

City	Lake Jackson	**State**	TX	**ZIP**	77566	**ZIP + 4**	

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

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

(832) 501-0302		( ) -

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.)*

CITY OF LAKE JACKSON WWTP

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	25 Oak Drive							
	City	Lake Jackson	**State**	TX	**ZIP**	77566	**ZIP + 4**	
24. County	United States							

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

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

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:	29.0379		**28. Longitude (W) In Decimal:**	-95.4491	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	2	16.44	-95	26	56.76

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.)*

Treat domestic wastewater

34. Mailing Address:	**25 Oak Drive**							
	City	**Lake Jackson**	**State**	**TX**	**ZIP**	**77566**	**ZIP + 4**	
35. E-Mail Address:	**dwebb@lakejacksontx.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(832) 501-302		( ) -

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
	TXR05AL65			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010047001			

SECTION IV: Preparer Information

40. Name:	Esteban Di Loreto	41. Title:	P.E. Project Engineer

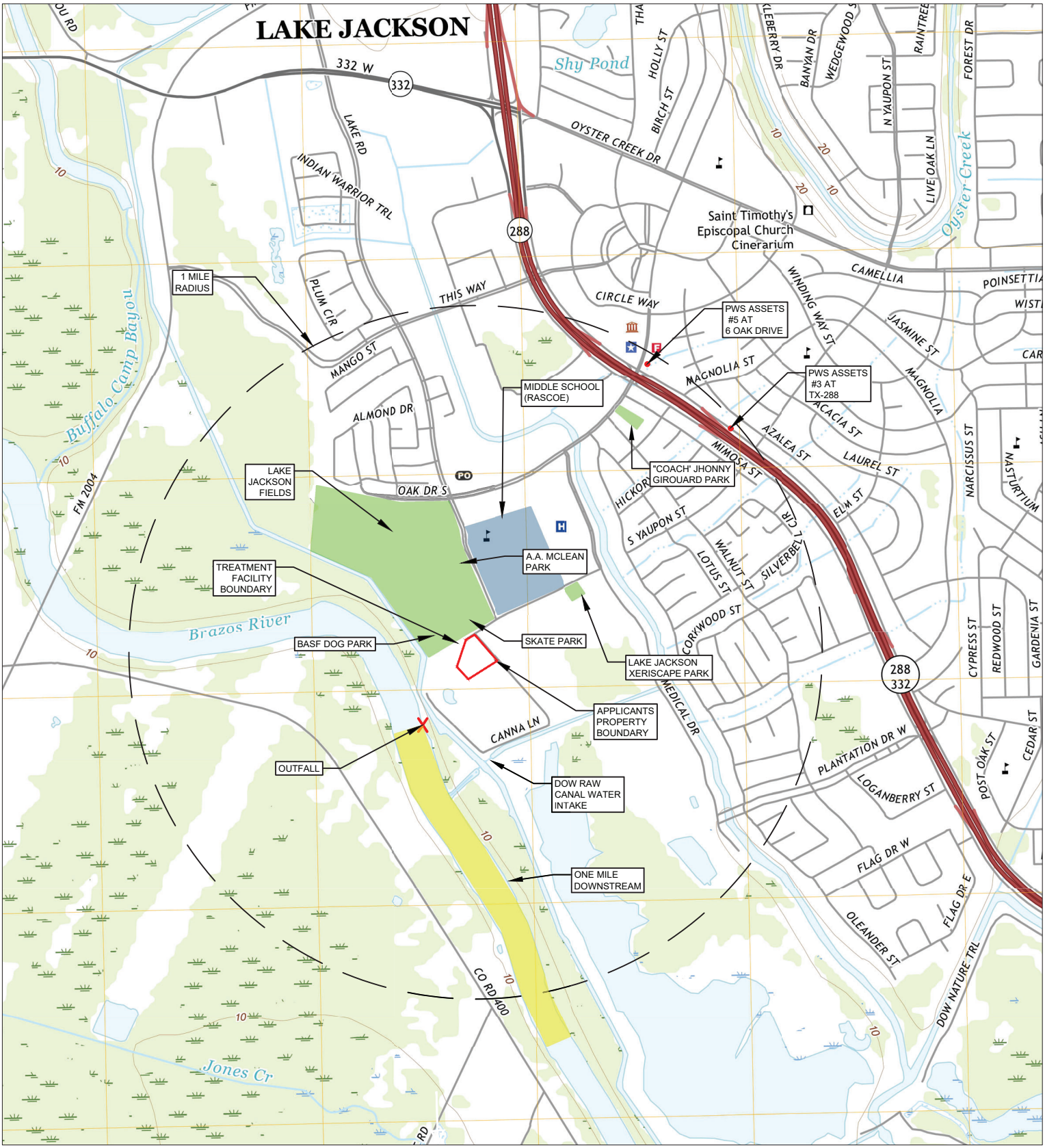
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(281) 954-1468		( ) -	emdiloreto@parracompany.com

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 Lake Jackson	Job Title:	City Manager
Name *(In Print)*:	Modesto Mundo	Phone:	(832) 501- 302
Signature:	Modesto Mundo	Date:	1/31/2024

Attachment B – USGS Map



110 E. HOUSTON STREET. FLOOR 7
SAN ANTONIO, TX 78205
(210) 819-4848
WWW.PARRACOMPANY.COM
TBPE F-17744

USGS MAP

DYSON CAMPBELL WATER RECLAMATION CENTER

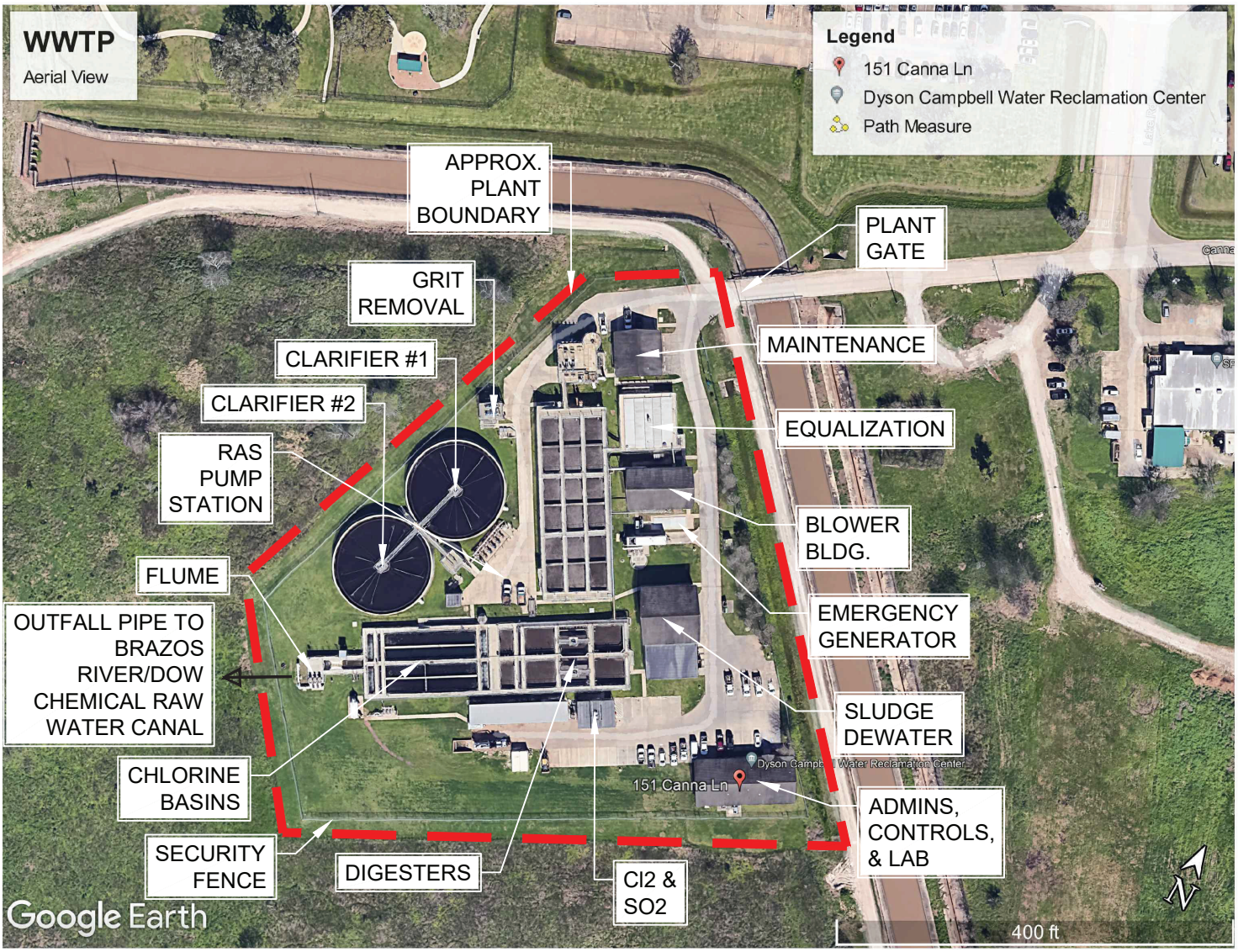
151 CANNA LN, LAKE JACKSON, TX 77566

Scale: 1"= 24,000"

EXHIBIT B

Date: 01/29/2024

Attachment C – Treatment Units



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PARRA & CO

TREATMENT UNITS

DYSON CAMPBELL WATER RECLAMATION CENTER

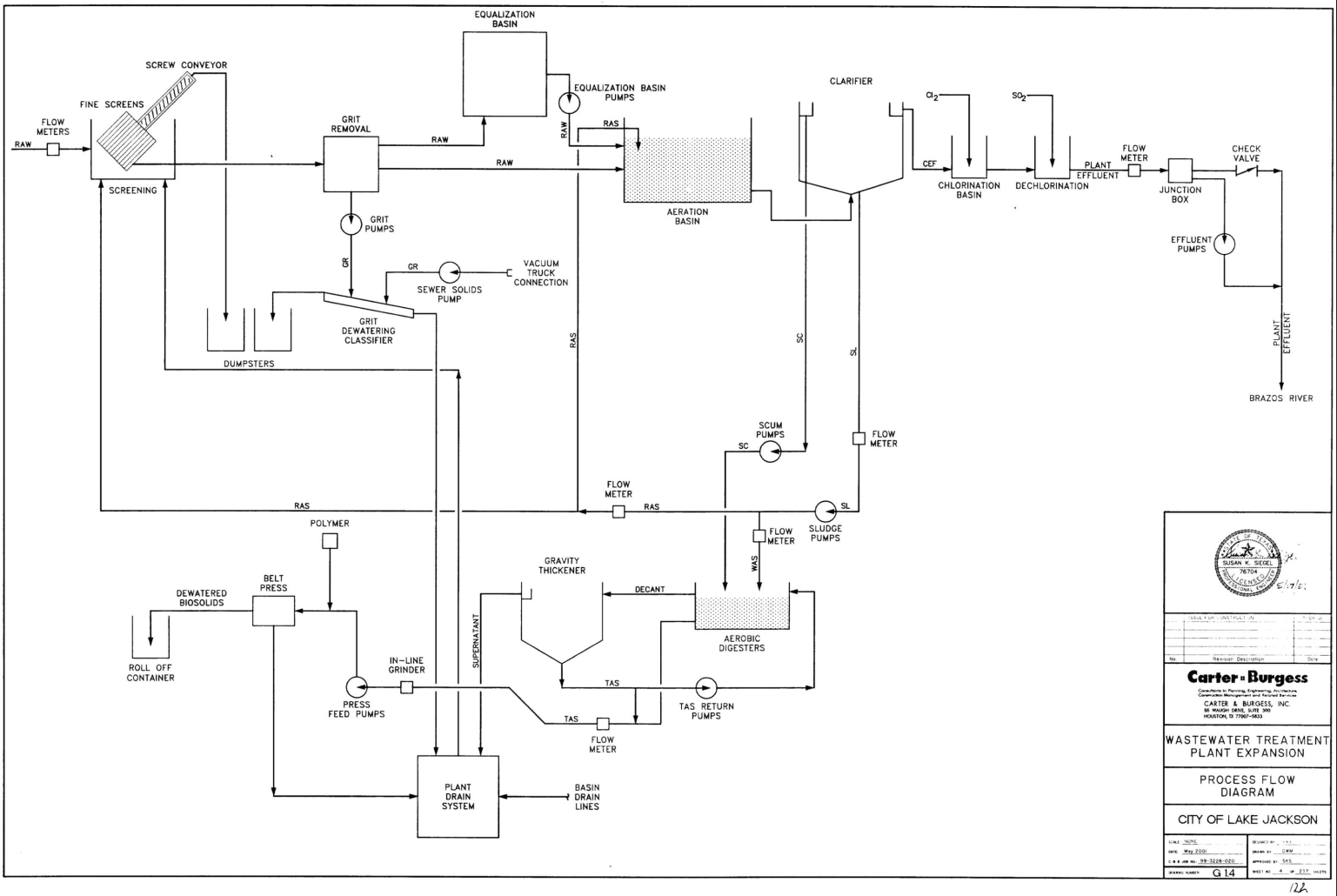
151 CANNA LN, LAKE JACKSON, TX 77566

Scale: NTS

EXHIBIT C

Date: 01/15/2024

Attachment D – Process Flow Diagram



SOURCE: WASTEWATER TREATMENT FACILITY ENGINEERING DOCUMENTS DATED MAY 2001, PROVIDED BY THE CITY OF LAKE JACKSON.

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PROCESS FLOW DIAGRAM

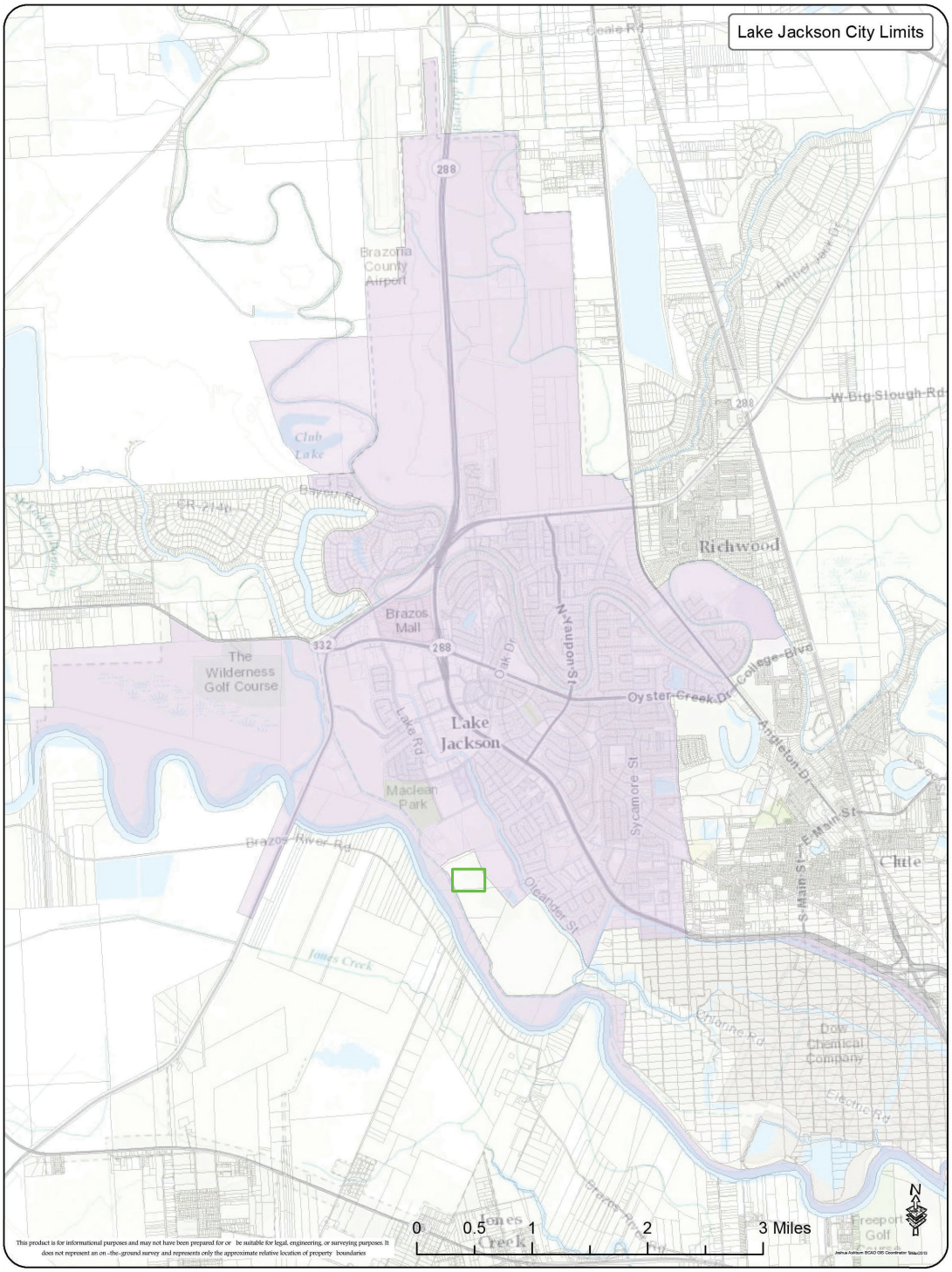
DYSON CAMPBELL WATER RECLAMATION CENTER

151 CANNA LN, LAKE JACKSON, TX 77566

EXHIBIT D

Date: 01/15/2024

Attachment E – Site Drawing



This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries

LEGEND

- WWTP
- CITY LIMITS

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PARRA & CO

SITE DRAWING

DYSON CAMPBELL WATER RECLAMATION CENTER

151 CANNA LN, LAKE JACKSON, TX 77566

Scale: NTS

EXHIBIT E

Date: 01/15/2024

Attachment F – Effluent Pollutant Analysis Lab Reports

Effluent data are incomplete.

Results will be provided when lab reports are available.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

12 February 2024

Lake Jackson, City of
Rick Smith
151 Canna Lane
Lake Jackson, TX 77566

Lake Jackson WWTP-Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 31-Oct-23 10:37. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 9

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia For Tinesha Robinson
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	23K0155-01	Water	31-Oct-23 07:00	31-Oct-23 10:37

L-Sample analyzed by TNI accredited lab T104704231-22-29

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Effluent

23K0155-01 (Water) Sampled: 31-Oct-23 07:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Field Analysis										
Dissolved Oxygen (DO)	**8.18**		mg/L	1	B3K2612	31-Oct-23	31-Oct-23 07:00	SM4500-O C	MD	a
pH	**7.64**		SU	1	B3K2612	31-Oct-23	31-Oct-23 07:00	SM4500H+ B	MD	a
Wet Chemistry										
Alkalinity (Total) as CaCO3	**162**	20.0	mg/L	1	B3J6222	31-Oct-23	31-Oct-23 10:20	EPA 310.2	SSJ	
Ammonia-N (NH3-N)	<0.20	0.20	mg/L	1	B3K2893	03-Nov-23	03-Nov-23 14:00	EPA 350.1	SSJ	P
CBOD-5	**3.3**	2.0	mg/L	1	B3K3164	01-Nov-23	01-Nov-23 12:57	SM5210 B	AGT	I
Chloride	**268**	12.0	mg/L	4	B3K3838	13-Nov-23	13-Nov-23 14:08	SM4500 Cl-B	NMV	
Nitrate-N	**23.3**	0.50	mg/L	1	B3J6241	31-Oct-23	31-Oct-23 14:15	EPA 353.1	SSJ	
Oil & Grease	<5.0	5.0	mg/L	1	B3K3311	08-Nov-23	08-Nov-23 11:25	EPA 1664 A	NMV	Q
Phosphorus, Total	**1.14**	0.10	mg/L	1	B3K3731	12-Nov-23	12-Nov-23 16:31	SM4500-P E	LLB	
Sulfate	**88.5**	10.0	mg/L	5	B3J6205	31-Oct-23	31-Oct-23 14:10	EPA 375.4	SSJ	
TDS	**914**	50.0	mg/L	1	B3K3310	06-Nov-23	06-Nov-23 10:57	SM2540 C	SKP	
TKN-N	<0.50	0.50	mg/L	1	B3K4094	03-Nov-23	03-Nov-23 14:00	SM 4500-NH3 D	SSJ	
TSS	**4.0**	2.0	mg/L	1	B3K2721	03-Nov-23	03-Nov-23 14:53	SM2540 D	TB	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J6205 - Inorganics										
Blank (B3J6205-BLK1)				Prepared & Analyzed: 31-Oct-23						
Sulfate	<2.00	2.00	mg/L							
LCS (B3J6205-BS1)				Prepared & Analyzed: 31-Oct-23						
Sulfate	21.6		mg/L	20.0		108	90-110			
Matrix Spike (B3J6205-MS1)	**Source: 23J3112-03**			Prepared & Analyzed: 31-Oct-23						
Sulfate	58.7	10.0	mg/L	20.0	37.9	104	80-120			
Matrix Spike Dup (B3J6205-MSD1)	**Source: 23J3112-03**			Prepared & Analyzed: 31-Oct-23						
Sulfate	56.8	10.0	mg/L	20.0	37.9	94.6	80-120	3.27	20	
Batch B3J6222 - Inorganics										
Blank (B3J6222-BLK1)				Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	<20.0	20.0	mg/L							
LCS (B3J6222-BS1)				Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	97.6		mg/L	100		97.6	90-110			
Duplicate (B3J6222-DUP1)	**Source: 23J2466-09**			Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	306	20.0	mg/L		300			1.95	20	
Batch B3J6241 - Inorganics										
Blank (B3J6241-BLK1)				Prepared & Analyzed: 31-Oct-23						
Nitrate-N	<0.50	0.50	mg/L							

Envirodyne Laboratories, Inc.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
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Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J6241 - Inorganics										
LCS (B3J6241-BS1)				Prepared & Analyzed: 31-Oct-23						
Nitrate-N	3.10		mg/L	3.00		103	90-110			
Matrix Spike (B3J6241-MS1)		**Source: 23J2485-03**		Prepared & Analyzed: 31-Oct-23						
Nitrate-N	37.7	5.00	mg/L	30.0	7.60	100	80-120			
Matrix Spike Dup (B3J6241-MSD1)		**Source: 23J2485-03**		Prepared & Analyzed: 31-Oct-23						
Nitrate-N	36.6	5.00	mg/L	30.0	7.60	96.7	80-120	2.96	20	
Batch B3K2721 - Inorganics										
Blank (B3K2721-BLK1)				Prepared & Analyzed: 03-Nov-23						
TSS	<2.0	2.0	mg/L							
LCS (B3K2721-BS1)				Prepared & Analyzed: 03-Nov-23						
TSS	87.0		mg/L	100		87.0	80-120			
Duplicate (B3K2721-DUP1)		**Source: 23J3167-01**		Prepared & Analyzed: 03-Nov-23						
TSS	3.6	2.0	mg/L		3.8			5.41	20	
Batch B3K2893 - Inorganics										
Blank (B3K2893-BLK1)				Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	<0.20	0.20	mg/L							
LCS (B3K2893-BS1)				Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	0.97		mg/L	1.00		97.0	90-110			

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
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Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2893 - Inorganics										
Matrix Spike (B3K2893-MS1)		**Source: 23J3180-01**		Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	0.99	0.20	mg/L	1.00	0.08	91.0	90-110			
Matrix Spike Dup (B3K2893-MSD1)		**Source: 23J3180-01**		Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	1.03	0.20	mg/L	1.00	0.08	95.0	90-110	3.96	20	
Batch B3K3164 - Inorganics										
Blank (B3K3164-BLK1)				Prepared & Analyzed: 01-Nov-23						
CBOD-5	<2.0	2.0	mg/L							
LCS (B3K3164-BS1)				Prepared & Analyzed: 01-Nov-23						
CBOD-5	212		mg/L	198		107	84.6-115.4			
Duplicate (B3K3164-DUP1)		**Source: 23J3168-01**		Prepared & Analyzed: 01-Nov-23						
CBOD-5	4.90	2.0	mg/L		4.70			4.17	20	I
Batch B3K3310 - Inorganics										
Blank (B3K3310-BLK1)				Prepared & Analyzed: 06-Nov-23						
TDS	<50.0	50.0	mg/L							
LCS (B3K3310-BS1)				Prepared & Analyzed: 06-Nov-23						
TDS	516		mg/L	500		103	0-200			
Duplicate (B3K3310-DUP1)		**Source: 23J3042-02**		Prepared & Analyzed: 06-Nov-23						
TDS	510	50.0	mg/L		494			3.19	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
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Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K3311 - Inorganics										
Blank (B3K3311-BLK1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	5.48	5.0	mg/L							Q
LCS (B3K3311-BS1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	33.6		mg/L	40.0		84.0	78-114			Q
LCS Dup (B3K3311-BSD1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	33.7		mg/L	40.0		84.2	78-114	0.297	18	Q
Batch B3K3731 - Inorganics										
Blank (B3K3731-BLK1)				Prepared & Analyzed: 12-Nov-23						
Phosphorus, Total	<0.10	0.10	mg/L							
LCS (B3K3731-BS1)				Prepared & Analyzed: 12-Nov-23						
Phosphorus, Total	0.960		mg/L	1.00		96.0	80-120			
Matrix Spike (B3K3731-MS1)		**Source: 23J2559-01**		Prepared & Analyzed: 12-Nov-23						
Phosphorus, Total	1.12	0.10	mg/L	1.00	ND	112	80-120			
Matrix Spike Dup (B3K3731-MSD1)		**Source: 23J2559-01**		Prepared & Analyzed: 12-Nov-23						
Phosphorus, Total	1.14	0.10	mg/L	1.00	ND	114	80-120	1.77	20	
Batch B3K3838 - Inorganics										
Blank (B3K3838-BLK1)				Prepared & Analyzed: 13-Nov-23						
Chloride	<3.0	3.0	mg/L							

Envirodyne Laboratories, Inc.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K3838 - Inorganics										
LCS (B3K3838-BS1)				Prepared & Analyzed: 13-Nov-23						
Chloride	96.0		mg/L	100		96.0	90-110			
Matrix Spike (B3K3838-MS1)		**Source: 23J2939-01**		Prepared & Analyzed: 13-Nov-23						
Chloride	1160	12.0	mg/L	1000	120	104	80-120			
Matrix Spike Dup (B3K3838-MSD1)		**Source: 23J2939-01**		Prepared & Analyzed: 13-Nov-23						
Chloride	1200	12.0	mg/L	1000	120	108	80-120	3.06	20	

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia For Tinesha Robinson, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
12-Feb-24 08:58

Notes and Definitions

Q	QC did not meet ELI acceptance criteria
P	Sample preserved at bench
I	Greater than 30% difference between highest and lowest values
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

NELAP ACCREDITED LABORATORY

23K0155

TCEQ Certification # T104704265

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A417940

Page _____ Of _____

Analysis Request and Chain of Custody Record

Name: City of Lake Jackson
Address: 25 Oak Drive
City: Lake Jackson,Tx 77566
Contact: Carine Torrance Phone: 832-338-1036 Email:

Project No. | Client/Project: Lake Jackson - Permit Renewal

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	10/31/23 07:00AM		✓	NA	Liquid	NA	pH,DO,Cl2 residual	7.04	8.18	22.1	8:00
	Effluent	10/31/23 07:00AM		✓	1 gal cubie	Liquid	Ice	CBOD ~~OD~~,BOD,TSS,TDS,SO4,Cl,Cond,Cr+6,Cr+3 F,AIK CR+3				
	Effluent	10/31/23 7:00AM		✓	500 mL P	Liquid	Ice, H2SO4	NH3-N, TKN-N, T. PO4,NO3-N				
	Effluent	10/31/23 7AM	✓		120 ml P	Liquid	Ice, Sod Thio	Ecoli				
	Effluent	10/31/23 7:00AM		✓	500 ml P	Liquid	HNO3	Sb,As,Be,Cd,Cr,Cu,Pb,Hg,Ni,Se,Ag,Tl,Zn Al,Ba				
	Effluent	10/31/23 7:00AM	✓		1 L G	Liquid	Ice, HCl	Oil & Grease				
	Effluent	10/31/23 7:00AM	✓		(4) 40ml VOA	Liquid	Ice	VOC (624)				
	Effluent	10/31/23 07:00AM	✓		250 ml P	Liquid	Ice, NaOH	Cyanide, Amenable				
	Effluent	10/31/23 07:00AM	✓		1 L Amber	Liquid	Ice, H2SO4	Phenol				
	Effluent	10/31/23 07:00AM		✓	(3) 1 L Amber	Liquid	Ice	BNA, Pesticides, PCBs				

Samplers: (Signature) CARINE TORRANCE	Relinquished by: (Signature) CARINE TORRANCE	Date: 10/31 Time: 10:34AM	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature)	Date: Time:	Received by Lab: (Signature)	Date: 10/31/23 Time: 10:37AM	Seal Intact?
Remarks:	FLOW:_____ Meter Reading: _____ Cl_2 Residual: _____ Mn Correction: _____ Cl_2 Corrected _____	Arrival Temp. 2.1/1.9 IR#1	Data Results To: 1. Site Representative:	Date: Time:	Laboratory No.

LAKE JACKSON, CITY OF - LAKE JACKSON, CITY OF WWTP: MONTHLY SUMMARY - EFFLUENT

Jan-24

	SAMPLE ID	FLOW	E.Coli	Enterococci	NH3-N	NH3-N	TKN-N	TKN-N	Copper	Copper
		MGD	MPN/100 mL	MPN/100 mL	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
1										
2										
3										
4										
5	24A0456-02		**1**	**2**	**0.20**		**1.00**		0.0072	
6										
7										
8										
9										
10										
11	24A1178-02		**1**	1	**0.20**		**1.00**		0.0067	
12										
13										
14										
15										
16										
17										
18	24A1817-02		**1**	4	0.35				0.0052	
19										
20										
21										
22										
23										
24										
25										
26	24A2466-02		**2**	**1**	**0.20**					
27										
28										
29										
30										
31										
	AVG		1	2	0.24		1.00		0.0064	
	MAX		2	4	0.35		1.00		0.0072	
	MIN		1	1	0.20		1.00		0.0052	
	GEOMEAN		1	2						

WWTP Daily Labs
Jan-24

Date: 1/26			Date: 1/27			Date: 1/28		
Operator:	Result	Time	Operator:	Result	Time	Operator:	Result	Time
Influent Ph	7.88	0730	Influent Ph	7.89		Influent Ph	7.91	
Influent Temp	20.2		Influent Temp	~~7.84~~ 20.0		Influent Temp	19.4	
Influent DO	3.06		Influent DO	1.86		Influent DO	1.43	
Effluent Ph	7.67		Effluent Ph	7.61		Effluent Ph	8.01	
Effluent Temp	20.4		Effluent Temp	20.9		Effluent Temp	19.4	
Effluent DO	11.22		Effluent DO	10.50		Effluent DO	11.10	
Effluent Chlorine	.01		Effluent Chlorine	.08		Effluent Chlorine	.04	
Contact Basin A: INSIDE			***Contact Basin A: INSIDE***			***Contact Basin A: INSIDE***		
CB Mang Int	.17		CB Mang Int	.16		CB Mang Int	.15	
CB Final 5.0 Cl2-Mang.Correction.	4.83		CB Final 5.1 Cl2-Mang.Correction.	4.94		CB Final 6.1 Cl2-Mang.Correction.	5.95	
Contact Basin A: OUTSIDE			***Contact Basin A: OUTSIDE***			***Contact Basin A: OUTSIDE***		
CB Mang Int	.19		CB Mang Int	.73		CB Mang Int	.03	
CB Final 8.8 Cl2-Mang.Correction.	~~8.61~~ ~~8.7~~		CB Final 8.8 Cl2-Mang.Correction.	8.07		CB Final Cl2-Mang.Correction.	8.8	
Contact Basin B: INSIDE			***Contact Basin B: INSIDE***			***Contact Basin B: INSIDE***		
CB Mang Int	.27		CB Mang Int	.34		CB Mang Int	.10	
CB Final 2.8 Cl2-Mang.Correction.	2.53		CB Final 3.87 Cl2-Mang.Correction.	3.36		CB Final 3.7 Cl2-Mang.Correction.	3.6	
Contact Basin B: OUTSIDE			***Contact Basin B: OUTSIDE***			***Contact Basin B: OUTSIDE***		
CB Mang Int	.43		CB Mang Int	.29		CB Mang Int	.14	
CB Final 4.0 Cl2-Mang.Correction.	4.57		CB Final 4.9 Cl2-Mang.Correction.	4.71		CB Final 4.9 Cl2-Mang.Correction.	4.76	
Contact Basin Averages			***Contact Basin Averages***			***Contact Basin Averages***		
AVERAGE of all 4: CB Mang Int	.26		***AVERAGE*** of all 4: CB Mang Int	.38		***AVERAGE*** of all 4: CB Mang Int	.10	
AVERAGE of all 4: CB Final & Cl2-Mang.Correction.	5.1		***AVERAGE*** of all 4: CB Final & Cl2-Mang.Correction.	5.27		***AVERAGE*** of all 4: CB Final & Cl2-Mang.Correction.	5.7	
Eff Nh3	.023		Eff Nh3	.019		Eff Nh3	.013	
Inf Nh3	11.0		Inf Nh3	22.1		Inf Nh3	16.4	
A-basin D.O.	8.40		A-basin D.O.	8.44		A-basin D.O.	7.39	
B-basin D.O.	9.54		B-basin D.O.	9.28		B-basin D.O.	8.93	
C-basin D.O.	4.95		C-basin D.O.	3.77		C-basin D.O.	4.56	
A-basin Ph/Temp	7.60 / 20.8		A-basin Ph/Temp	7.35 / 21.6		A-basin Ph/Temp	7.62 / 20.6	
B-basin Ph/Temp	7.63 / 20.7		B-basin Ph/Temp	7.43 / 20.9		B-basin Ph/Temp	7.70 / 20.3	
C-basin Ph/Temp	7.55 / 20.6		C-basin Ph/Temp	7.39 / 20.7		C-basin Ph/Temp	7.65 / 20.1	
A-basin Settle	400		A-basin Settle	500		A-basin Settle	650	
B-basin Settle	550		B-basin Settle	750		B-basin Settle	700	
C-basin Settle	500		C-basin Settle	600		C-basin Settle	750	

Envirodyne Laboratories, Inc
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02 January 2024

Lake Jackson, City of
Rick Smith
151 Canna Lane
Lake Jackson, TX 77566

Lake Jackson WWTP-Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 31-Oct-23 10:37. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 16

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia For Tinesha Robinson
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
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Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of	
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**
Work Order:	23K0155	02-Jan-24 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	23K0155-01	Water	31-Oct-23 07:00	31-Oct-23 10:37

L-Sample analyzed by TNI accredited lab T104704231-22-29

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

ENVIRODYNE LABORATORIES, INC.

CLIENT: **CITY OF LAKE JACKSON PERMIT RENEWAL** LAB NUMBER: 23K0155C Revised

DATE COLLECTED: 31-Oct-23 DATE RECEIVED: 31-Oct-23

DATE COMPLETED: 12-2-23 SAMPLED BY: CT

LOCATION: Composite **EFFLUENT**

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	21.9	EPA 200.8	BPC	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	BPC	5.0
TOTAL ARSENIC (ug/l)	0.8	EPA 200.8	BPC	0.5
TOTAL BARIUM (ug/l)	109.0	EPA 200.8	BPC	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	BPC	0.5
TOTAL CADMIUM (ug/l)	<0.50	EPA 200.8	BPC	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	BPC	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	SSJ	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	BPC	3.0
TOTAL COPPER (ug/l)	9.0	EPA 200.8	BPC	2.0
TOTAL LEAD (ug/l)	<0.5	EPA 200.8	BPC	<0.5
TOTAL NICKEL (ug/l)	3.6	EPA 200.8	BPC	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	BPC	5.0
TOTAL SILVER (ug/l)	0.5	EPA 200.8	BPC	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	BPC	0.5
TOTAL ZINC (ug/l)	91.3	EPA 200.8	BPC	5.0
AMENABLE CYANIDE (ug/l)	*<10.0	EPA 335.4	SUB	10.0
TOTAL PHENOLS (ug/l)	*<10.0	EPA 420.4	SUB	10.0
FLUORIDE (ug/l)	920.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	23,300.0	EPA 353.1	SSJ	100.0

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704231

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Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
02-Jan-24 16:50

Microbiology - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2667 - Microbiology										
Blank (B3K2667-BLK1)				Prepared & Analyzed: 31-Oct-23						
E.coli	<1	1	MPN/100 mL							
Duplicate (B3K2667-DUP1)		**Source: 23K0155-01**		Prepared & Analyzed: 31-Oct-23						
E.coli	<2	2	MPN/100 mL		<2			0	0.402	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

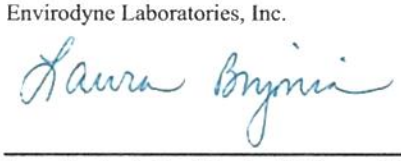
Reported:
02-Jan-24 16:50

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J6205 - Inorganics										
Blank (B3J6205-BLK1)				Prepared & Analyzed: 31-Oct-23						
Sulfate	<2.00	2.00	mg/L							
LCS (B3J6205-BS1)				Prepared & Analyzed: 31-Oct-23						
Sulfate	21.6		mg/L	20.0		108	90-110			
Matrix Spike (B3J6205-MS1)	**Source: 23J3112-03**			Prepared & Analyzed: 31-Oct-23						
Sulfate	58.7	10.0	mg/L	20.0	37.9	104	80-120			
Matrix Spike Dup (B3J6205-MSD1)	**Source: 23J3112-03**			Prepared & Analyzed: 31-Oct-23						
Sulfate	56.8	10.0	mg/L	20.0	37.9	94.6	80-120	3.27	20	
Batch B3J6222 - Inorganics										
Blank (B3J6222-BLK1)				Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	<20.0	20.0	mg/L							
LCS (B3J6222-BS1)				Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	97.6		mg/L	100		97.6	90-110			
Duplicate (B3J6222-DUP1)	**Source: 23J2466-09**			Prepared & Analyzed: 31-Oct-23						
Alkalinity (Total) as CaCO3	306	20.0	mg/L		300			1.95	20	
Batch B3J6241 - Inorganics										
Blank (B3J6241-BLK1)				Prepared & Analyzed: 31-Oct-23						
Nitrate-N	<0.50	0.50	mg/L							

Envirodyne Laboratories, Inc.



Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Client:	Lake Jackson, City of		
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**	
Work Order:	23K0155	02-Jan-24 16:50	

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J6241 - Inorganics										
LCS (B3J6241-BS1)				Prepared & Analyzed: 31-Oct-23						
Nitrate-N	3.10		mg/L	3.00		103	90-110			
Matrix Spike (B3J6241-MS1)		**Source: 23J2485-03**		Prepared & Analyzed: 31-Oct-23						
Nitrate-N	37.7	5.00	mg/L	30.0	7.60	100	80-120			
Matrix Spike Dup (B3J6241-MSD1)		**Source: 23J2485-03**		Prepared & Analyzed: 31-Oct-23						
Nitrate-N	36.6	5.00	mg/L	30.0	7.60	96.7	80-120	2.96	20	
Batch B3K2671 - Inorganics										
Blank (B3K2671-BLK1)				Prepared & Analyzed: 02-Nov-23						
Fluoride	<0.10	0.10	mg/L							
LCS (B3K2671-BS1)				Prepared & Analyzed: 02-Nov-23						
Fluoride	0.50		mg/L	0.500		101	90-110			
Matrix Spike (B3K2671-MS1)		**Source: 23J2669-01**		Prepared & Analyzed: 02-Nov-23						
Fluoride	1.67	0.20	mg/L	1.00	0.69	97.8	80-120			
Matrix Spike Dup (B3K2671-MSD1)		**Source: 23J2669-01**		Prepared & Analyzed: 02-Nov-23						
Fluoride	1.65	0.20	mg/L	1.00	0.69	96.4	80-120	0.844	20	
Batch B3K2721 - Inorganics										
Blank (B3K2721-BLK1)				Prepared & Analyzed: 03-Nov-23						
TSS	<2.0	2.0	mg/L							

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Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported: 02-Jan-24 16:50

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2721 - Inorganics										
LCS (B3K2721-BS1)				Prepared & Analyzed: 03-Nov-23						
TSS	87.0		mg/L	100		87.0	80-120			
Duplicate (B3K2721-DUP1)		**Source: 23J3167-01**		Prepared & Analyzed: 03-Nov-23						
TSS	3.6	2.0	mg/L		3.8			5.41	20	
Batch B3K2893 - Inorganics										
Blank (B3K2893-BLK1)				Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	<0.20	0.20	mg/L							
LCS (B3K2893-BS1)				Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	0.97		mg/L	1.00		97.0	90-110			
Matrix Spike (B3K2893-MS1)		**Source: 23J3180-01**		Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	0.99	0.20	mg/L	1.00	0.08	91.0	90-110			
Matrix Spike Dup (B3K2893-MSD1)		**Source: 23J3180-01**		Prepared & Analyzed: 03-Nov-23						
Ammonia-N (NH3-N)	1.03	0.20	mg/L	1.00	0.08	95.0	90-110	3.96	20	
Batch B3K3164 - Inorganics										
Blank (B3K3164-BLK1)				Prepared & Analyzed: 01-Nov-23						
CBOD-5	<2.0	2.0	mg/L							
LCS (B3K3164-BS1)				Prepared & Analyzed: 01-Nov-23						
CBOD-5	212		mg/L	198		107	84.6-115.4			

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Client:	Lake Jackson, City of		
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**	
Work Order:	23K0155	02-Jan-24 16:50	

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K3164 - Inorganics										
Duplicate (B3K3164-DUP1)		**Source: 23J3168-01**		Prepared & Analyzed: 01-Nov-23						
CBOD-5	4.90	2.0	mg/L		4.70			4.17	20	I
Batch B3K3310 - Inorganics										
Blank (B3K3310-BLK1)				Prepared & Analyzed: 06-Nov-23						
TDS	<50.0	50.0	mg/L							
LCS (B3K3310-BS1)				Prepared & Analyzed: 06-Nov-23						
TDS	516		mg/L	500		103	0-200			
Duplicate (B3K3310-DUP1)		**Source: 23J3042-02**		Prepared & Analyzed: 06-Nov-23						
TDS	510	50.0	mg/L		494			3.19	20	
Batch B3K3311 - Inorganics										
Blank (B3K3311-BLK1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	5.48	5.0	mg/L							Q
LCS (B3K3311-BS1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	33.6		mg/L	40.0		84.0	78-114			Q
LCS Dup (B3K3311-BSD1)				Prepared & Analyzed: 08-Nov-23						
Oil & Grease	33.7		mg/L	40.0		84.2	78-114	0.297	18	Q
Batch B3K3838 - Inorganics										
Blank (B3K3838-BLK1)				Prepared & Analyzed: 13-Nov-23						
Chloride	<3.0	3.0	mg/L							

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported:
02-Jan-24 16:50

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K3838 - Inorganics										
LCS (B3K3838-BS1)				Prepared & Analyzed: 13-Nov-23						
Chloride	96.0		mg/L	100		96.0	90-110			
Matrix Spike (B3K3838-MS1)		**Source: 23J2939-01**		Prepared & Analyzed: 13-Nov-23						
Chloride	1160	12.0	mg/L	1000	120	104	80-120			
Matrix Spike Dup (B3K3838-MSD1)		**Source: 23J2939-01**		Prepared & Analyzed: 13-Nov-23						
Chloride	1200	12.0	mg/L	1000	120	108	80-120	3.06	20	
Batch B3K4023 - Inorganics										
Blank (B3K4023-BLK1)				Prepared & Analyzed: 15-Nov-23						
Conductivity at 25 C	<30	30	umho/cm							
Duplicate (B3K4023-DUP1)		**Source: 23J3111-05**		Prepared & Analyzed: 15-Nov-23						
Conductivity at 25 C	1090	30	umho/cm		1090			0.184	20	
Reference (B3K4023-SRM1)				Prepared & Analyzed: 15-Nov-23						
Conductivity at 25 C	181		umho/cm	180		101	90-110			

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Client:	Lake Jackson, City of	
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**
Work Order:	23K0155	02-Jan-24 16:50

Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K2611 - Inorganics										
Blank (B3K2611-BLK1)				Prepared & Analyzed: 31-Oct-23						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B3K2611-BS1)				Prepared & Analyzed: 31-Oct-23						
Chromium, Hexavalent	49.4		ug/L	50.0		98.8	95-105			
Matrix Spike (B3K2611-MS1)	**Source: 23K0155-01**			Prepared & Analyzed: 31-Oct-23						
Chromium, Hexavalent	42.6	1.0	ug/L	50.0	ND	85.2	80-120			
Matrix Spike Dup (B3K2611-MSD1)	**Source: 23K0155-01**			Prepared & Analyzed: 31-Oct-23						
Chromium, Hexavalent	42.5	1.0	ug/L	50.0	ND	85.0	80-120	0.235	20	

Envirodyne Laboratories, Inc.

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Client:	Lake Jackson, City of
Project:	Lake Jackson WWTP-Permit Renewal
Work Order:	23K0155

Reported: 02-Jan-24 16:50

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L3433 - Metals - EPA 200.2										
Blank (B3L3433-BLK1)				Prepared: 29-Nov-23 Analyzed: 02-Dec-23						
Thallium	<0.5	0.5	ug/L							
Arsenic	<0.5	0.5	"							
Cadmium	<0.50	0.50	"							
Beryllium	<0.5	0.5	"							
Barium	<2.0	2.0	"							
Copper	<0.5	0.5	"							
Nickel	<0.5	0.5	"							
Aluminum	<2.0	2.0	"							
Selenium	<2.0	2.0	"							
Zinc	<2.0	2.0	"							
Antimony	<0.5	0.5	"							
LCS (B3L3433-BS1)				Prepared: 29-Nov-23 Analyzed: 02-Dec-23						
Copper	64.6		ug/L	75.0		86.1	85-115			
Beryllium	67.9		"	75.0		90.5	85-115			
Thallium	64.9		"	75.0		86.5	85-115			
Arsenic	66.9		"	75.0		89.2	85-115			
Nickel	66.9		"	75.0		89.2	85-115			
Aluminum	61.3		"	75.0		81.7	85-115			Q
Cadmium	71		"	75.0		95.0	85-115			
Barium	66.0		"	75.0		88.0	85-115			
Selenium	67.7		"	75.0		90.3	85-115			
Zinc	71.6		"	75.0		95.5	85-115			
Antimony	69.7		"	75.0		92.9	85-115			
Matrix Spike (B3L3433-MS1)	**Source: 23K2332-01**			Prepared: 29-Nov-23 Analyzed: 02-Dec-23						
Thallium	115	0.5	ug/L	100	ND	115	70-130			
Aluminum	356	2.0	"	100	131	225	70-130			Q
Copper	146	0.5	"	100	16.6	129	70-130			
Arsenic	132	0.5	"	100	1.10	131	70-130			Q
Nickel	121	0.5	"	100	1.58	119	70-130			
Cadmium	130	0.50	"	100	ND	129	70-130			
Beryllium	120	0.5	"	100	ND	120	70-130			

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Laura Bonjonia For Tinesha Robinson, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of		
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**	
Work Order:	23K0155	02-Jan-24 16:50	

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L3433 - Metals - EPA 200.2										
Matrix Spike (B3L3433-MS1)	**Source: 23K2332-01**			Prepared: 29-Nov-23 Analyzed: 02-Dec-23						
Barium	323	2.0	ug/L	100	126	197	70-130			Q
Zinc	254	2.0	"	100	65.6	189	70-130			Q
Selenium	121	2.0	"	100	1.44	119	70-130			
Antimony	126	0.5	"	100	ND	126	70-130			
Matrix Spike Dup (B3L3433-MSD1)	**Source: 23K2332-01**			Prepared: 29-Nov-23 Analyzed: 02-Dec-23						
Barium	315	2.0	ug/L	100	126	189	70-130	2.48	20	Q
Aluminum	321	2.0	"	100	131	190	70-130	10.4	20	Q
Nickel	122	0.5	"	100	1.58	121	70-130	1.15	20	
Beryllium	115	0.5	"	100	ND	115	70-130	4.29	20	
Copper	145	0.5	"	100	16.6	128	70-130	0.652	20	
Cadmium	120	0.50	"	100	ND	123	70-130	5.07	20	
Arsenic	131	0.5	"	100	1.10	130	70-130	0.822	20	
Thallium	111	0.5	"	100	ND	111	70-130	3.41	20	
Selenium	119	2.0	"	100	1.44	118	70-130	1.34	20	
Zinc	264	2.0	"	100	65.6	199	70-130	3.79	20	Q
Antimony	121	0.5	"	100	ND	121	70-130	3.79	20	
Batch B3L3443 - Metals - EPA 200.2										
Blank (B3L3443-BLK1)				Prepared: 02-Dec-23 Analyzed: 04-Dec-23						
Silver	<0.5	0.5	ug/L							
LCS (B3L3443-BS1)				Prepared: 02-Dec-23 Analyzed: 04-Dec-23						
Silver	52		ug/L	50.0		104	85-115			
Matrix Spike (B3L3443-MS1)	**Source: 23K2332-01**			Prepared: 02-Dec-23 Analyzed: 04-Dec-23						
Silver	110	0.5	ug/L	100	0.86	113	70-130			

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of	
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**
Work Order:	23K0155	02-Jan-24 16:50

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L3443 - Metals - EPA 200.2										
Matrix Spike Dup (B3L3443-MSD1)	**Source: 23K2332-01**			Prepared: 02-Dec-23 Analyzed: 04-Dec-23						
Silver	130	0.5	ug/L	100	0.86	125	70-130	9.66	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Lake Jackson, City of	
Project:	Lake Jackson WWTP-Permit Renewal	**Reported:**
Work Order:	23K0155	02-Jan-24 16:50

Notes and Definitions

Q	QC did not meet ELI acceptance criteria
P	Sample preserved at bench
L	Analyzed by third party laboratory
I	Greater than 30% difference between highest and lowest values
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Tinesha Robinson, Client Services Representative

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

23K0155

E A417940

Page _____ Of _____

Analysis Request and Chain of Custody Record

Name: City of Lake Jackson
Address: 25 Oak Drive
City: Lake Jackson, Tx 77566
Contact: Carine Torrance Phone: 832-338-1036 Email:

Project No. | Client/Project: Lake Jackson - Permit Renewal

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	10/31/12 07:00		✓	NA	Liquid	NA	pH,DO,Cl2 residual	7.64	8.18	22.1	8:00
	Effluent	10/31/12 07:00 AM		✓	1 gal cubie	Liquid	Ice	CBOD DBOD,BOD,TSS,TDS,SO4,Cl,Cond,Cr+6,Cr+ F,ALK CR+3				
	Effluent	10/31/12 7:00AM		✓	500 mL P	Liquid	Ice, H2SO4	NH3-N, TKN-N, T. PO4,NO3-N				
	Effluent	10/31/12 7 AM	✓		120 ml P	Liquid	Ice, Sod Thio	Ecoli				
	Effluent	10/31/12 7:00AM		✓	500 ml P	Liquid	HNO3	Sb,As,Be,Cd,Cr,Cu,Pb,Hg,Ni,Se,Ag,Tl,Zn Al, Ba				
	Effluent	10/31/12 7:00 AM	✓		1 L G	Liquid	Ice, HCl	Oil & Grease				
	Effluent	10/31/12 7:00 AM	✓		(4) 40ml VOA	Liquid	Ice	VOC (624)				
	Effluent	10/31/12 07:00 AM	✓		250 ml P	Liquid	Ice, NaOH	Cyanide, Amenable				
	Effluent	10/31/12 07:00 AM	✓		1 L Amber	Liquid	Ice, H2SO4	Phenol				
	Effluent	10/31/12 07:00 AM		✓	(3) 1 L Amber	Liquid	Ice	BNA, Pesticides, PCBs				

Samplers: (Signature) CARINE TORRANCE	Relinquished by: CARINE TORRANCE (Signature)	Date: 10/31 Time: 10:34AM	Received by: (Signature) Date: Time: Seal Intact?
Affiliation	Relinquished by: (Signature) Date: Time:		Received by: (Signature) Date: Time: Seal Intact?
	Relinquished by: (Signature) Date: Time:		Received by Lab: (Signature) Date: 10/31/12 Time: 10:37 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp. 2 1 1.9 IR#1	Data Results To: 1. Site Representative: Date: Time: Laboratory No.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 11, 2024

Sherry Walker
Envirodyne Laboratories, Inc
11011 Brooklet Drive
Suite 230
Houston, TX 77099

RE: Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Dear Sherry Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Lacole Barnes, Envirodyne Laboratories, Inc
Laura Bonjonia, Envirodyne Laboratories, Inc
Daniela Mireles, Envirodyne Laboratories, Inc

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40272818001	**EFFLUENT 23L2930**	Water	12/28/23 07:00	01/04/24 10:20
40272818002	**FIELD BLANK**	Water	12/28/23 00:00	01/04/24 10:20

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40272818001	**EFFLUENT 23L2930**	EPA 1631E	MRP	1
40272818002	**FIELD BLANK**	EPA 1631E	MRP	1

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Sample: EFFLUENT 23L2930 **Lab ID: 40272818001** Collected: 12/28/23 07:00 Received: 01/04/24 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**1.32**	ng/L	0.50	1	01/08/24 11:00	01/10/24 11:35	7439-97-6	

Sample: FIELD BLANK **Lab ID: 40272818002** Collected: 12/28/23 00:00 Received: 01/04/24 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**0.316J**	ng/L	0.50	1	01/08/24 11:00	01/10/24 14:15	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

QC Batch: 464482
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40272818001, 40272818002

METHOD BLANK: 2663784 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 11:03	

METHOD BLANK: 2663785 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 12:26	

METHOD BLANK: 2663786 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 14:28	

METHOD BLANK: 2663787 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	01/10/24 11:09	

LABORATORY CONTROL SAMPLE: 2663788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.00	100	79-121	

LABORATORY CONTROL SAMPLE: 2663789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.69	94	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665057 2665058

Parameter	Units	40272906001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	26.4	42.1	42.1	63.5	65.5	88	93	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665059 2665060

Parameter	Units	40272884002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.32	2	2	3.08	3.14	88	91	75-125	2	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40272818001	**EFFLUENT 23L2930**	EPA 1631E	464482	EPA 1631E	464786
40272818002	**FIELD BLANK**	EPA 1631E	464482	EPA 1631E	464786

40272818

Pace Analytical www.pacelabs.com Green Bay, WI

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: of

Section A Required Client Information		Section B Required Project Information	Section C Invoice Information
Company	Envirodyne	Report To Envirodyne	Attention ap@envirodyne.com
Address	11011 Brooklet Drive	Copy To	Company Name. Envirodyne
	Houston, Texas 77099		Address
Email To	See Envirodyne Distro list	Purchase Order No.	Pace Quote Reference
Phone	Fax	Project Name	Pace Project Manager
Requested Due Date/TAT:		Project Number	Pace Profile #

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Low Level Mercury EPA 1631E	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Effluent 23L2930			12/28/23																	001
2	① Field Blank				0700																002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Fedge #8	1/3/24	1400		1/3/24	1400				
	Fedge #12	1/3/24	1700	UPS	1/3/24	1730				
	UPS	1/4/24	1020	pace	1/4/24	1020	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1 5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev 07, 15-Feb-2007

Sample Preservation Receipt Form

Client Name: Envirodyne

Project # 40272818

All containers needing preservation have been checked and noted below. ☐Yes ☐No ☒N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001							23																											2.5 / 5
002							1																											2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016							11/4/24 MC																											2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other.

Headspace in VOA Vials (>6mm). ☐Yes ☐No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40272818

Client Name: Environdyne

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z6E96Y10132104536

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 134 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 1/4/24 /Initials: NK

Labeled By Initials: MH

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. proj.name/#, pg.#, 1/4/24 NK
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time.
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: ~~Pace Green Bay,~~ Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: mlt 1/8/24 -Includes date/time/ID/Analysis Matrix: WU	☒Yes ☐No ☐N/A	12. 002 labeled as effluent mlt 1/8/24
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

15 January 2024

Lake Jackson, City of
Carine Torrance
151 Canna Lane
Lake Jackson, TX 77566

Lake Jackson WWTP-Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 28-Dec-23 16:30. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 5

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Tinesha Robinson
Client Services Representative

Certificate No: T104704265-22-20

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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January 22, 2024

Laura Bonjonia
Envirodyne Laboratories, Inc.
11011 Brooklet, Suite 230
Houston, TX 770993543

Work Order: **HS23121887**

Laboratory Results for: **23L2930**

Dear Laura Bonjonia,

ALS Environmental received 1 sample(s) on Dec 29, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: ANDREW.NEIR
Andy C. Neir

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Work Order: HS23121887

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23121887-01	Effluent	Water		28-Dec-2023 07:00	29-Dec-2023 15:15	☐

Client: Envirodyne Laboratories, Inc. **CASE NARRATIVE**
Project: 23L2930
Work Order: HS23121887

Work Order Comments

• Login notes: 1 VOA vial contained hedspace

ECD Organics by Method E608.3

Batch ID: 205627

Sample ID: MBLK-205627 (0)

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

Sample ID: LCS-205627 (1)

• The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

Sample ID: MBLK-205627 (1)

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

GCMS Semivolatiles by Method E625.1

Batch ID: 205628

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method E624

Batch ID: R455622

Sample ID: CCV

• 2-Chloroethyl vinyl ether exceeded %D limits for CCV. Sample is ND for this compound.

Sample ID: HS23121383-05MS

• MS/MSD was performed on an unrelated sample.

Sample ID: VLCSW-231229

• Bromomethane exceeded QC limits for LCS .Sample is ND for this compound.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY EPA 624.1		**Method:E624.1**					Analyst: PC
1,1,1-Trichloroethane	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
1,1,2,2-Tetrachloroethane	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
1,1,2-Trichloroethane	U		0.20	1.0	ug/L	1	02-Jan-2024 14:05
1,1-Dichloroethane	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
1,1-Dichloroethene	U		0.50	1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dibromoethane	U		0.20	1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichlorobenzene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichloroethane	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichloropropane	U		0.20	1.0	ug/L	1	02-Jan-2024 14:05
1,3-Dichlorobenzene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
1,4-Dichlorobenzene	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
2-Butanone	U		1.8	2.0	ug/L	1	02-Jan-2024 14:05
2-Chloroethyl vinyl ether	U		1.1	2.0	ug/L	1	02-Jan-2024 14:05
Acrolein	U		5.8	8.0	ug/L	1	02-Jan-2024 14:05
Acrylonitrile	U		0.90	2.0	ug/L	1	02-Jan-2024 14:05
Benzene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Bromodichloromethane	**24**		**0.40**	**1.0**	**ug/L**	1	02-Jan-2024 14:05
Bromoform	**2.2**		**0.30**	**1.0**	**ug/L**	1	02-Jan-2024 14:05
Bromomethane	U		0.60	1.0	ug/L	1	02-Jan-2024 14:05
Carbon Tetrachloride	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
Chlorobenzene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Chloroethane	U		0.80	1.0	ug/L	1	02-Jan-2024 14:05
Chloroform	**21**		**0.40**	**1.0**	**ug/L**	1	02-Jan-2024 14:05
Chloromethane	U		0.50	1.0	ug/L	1	02-Jan-2024 14:05
Cis-1,3-Dichloropropene	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
Dibromochloromethane	**13**		**0.30**	**1.0**	**ug/L**	1	02-Jan-2024 14:05
Ethylbenzene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
m,p-Xylene	U		0.50	2.0	ug/L	1	02-Jan-2024 14:05
Methylene Chloride	U		0.80	2.0	ug/L	1	02-Jan-2024 14:05
o-Xylene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Tetrachloroethene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Toluene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Trans-1,2-Dichloroethene	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
Trans-1,3-Dichloropropene	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
Trichloroethene	U		0.30	1.0	ug/L	1	02-Jan-2024 14:05
Trichlorofluoromethane	U		0.40	1.0	ug/L	1	02-Jan-2024 14:05
Vinyl Chloride	U		0.60	1.0	ug/L	1	02-Jan-2024 14:05
Surr: 1,2-Dichloroethane-d4	*81.1*			*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*
Surr: 4-Bromofluorobenzene	*98.0*			*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY EPA 624.1		**Method:E624.1**					Analyst: PC
Surr: Toluene-d8	*107*			*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES BY E625.1	**Method:E625.1**				Prep:E625 / 04-Jan-2024		Analyst: GEY
1,2,4-Trichlorobenzene	U		0.050	0.20	ug/L	1	04-Jan-2024 19:45
1,2-Dichlorobenzene	U		0.031	0.20	ug/L	1	04-Jan-2024 19:45
1,2-Diphenylhydrazine	U		0.12	0.20	ug/L	1	04-Jan-2024 19:45
1,3-Dichlorobenzene	U		0.031	0.20	ug/L	1	04-Jan-2024 19:45
1,4-Dichlorobenzene	U		0.037	0.20	ug/L	1	04-Jan-2024 19:45
2,4,6-Trichlorophenol	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dichlorophenol	U		0.070	0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dimethylphenol	U		0.048	0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dinitrophenol	U		1.0	1.0	ug/L	1	04-Jan-2024 19:45
2,4-Dinitrotoluene	U		0.10	0.20	ug/L	1	04-Jan-2024 19:45
2,6-Dinitrotoluene	U		0.085	0.20	ug/L	1	04-Jan-2024 19:45
2-Chloronaphthalene	U		0.067	0.10	ug/L	1	04-Jan-2024 19:45
2-Chlorophenol	U		0.032	0.20	ug/L	1	04-Jan-2024 19:45
2-Methylphenol	U		0.033	0.20	ug/L	1	04-Jan-2024 19:45
2-Nitrophenol	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
3&4-Methylphenol	U		0.044	0.40	ug/L	1	04-Jan-2024 19:45
3,3´-Dichlorobenzidine	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
4,6-Dinitro-2-methylphenol	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
4-Bromophenyl phenyl ether	U		0.12	0.20	ug/L	1	04-Jan-2024 19:45
4-Chloro-3-methylphenol	U		0.073	0.20	ug/L	1	04-Jan-2024 19:45
4-Chlorophenyl phenyl ether	U		0.071	0.20	ug/L	1	04-Jan-2024 19:45
4-Nitrophenol	U		1.0	1.0	ug/L	1	04-Jan-2024 19:45
Acenaphthene	U		0.078	0.10	ug/L	1	04-Jan-2024 19:45
Acenaphthylene	U		0.022	0.10	ug/L	1	04-Jan-2024 19:45
Anthracene	U		0.049	0.10	ug/L	1	04-Jan-2024 19:45
Benz(a)anthracene	U		0.013	0.10	ug/L	1	04-Jan-2024 19:45
Benzidine	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
Benzo(a)pyrene	U		0.070	0.10	ug/L	1	04-Jan-2024 19:45
Benzo(b)fluoranthene	U		0.064	0.10	ug/L	1	04-Jan-2024 19:45
Benzo(g,h,i)perylene	U		0.048	0.10	ug/L	1	04-Jan-2024 19:45
Benzo(k)fluoranthene	U		0.041	0.10	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroethoxy)methane	U		0.053	0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroethyl)ether	U		0.040	0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroisopropyl)ether	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-ethylhexyl)phthalate	U		0.053	0.20	ug/L	1	04-Jan-2024 19:45
Butyl benzyl phthalate	U		0.087	0.20	ug/L	1	04-Jan-2024 19:45
Chrysene	U		0.034	0.10	ug/L	1	04-Jan-2024 19:45
Di-n-butyl phthalate	U		0.082	0.20	ug/L	1	04-Jan-2024 19:45
Di-n-octyl phthalate	U		0.031	0.20	ug/L	1	04-Jan-2024 19:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES BY E625.1	**Method:E625.1**			Prep:E625 / 04-Jan-2024			Analyst: GEY
Dibenz(a,h)anthracene	U		0.055	0.10	ug/L	1	04-Jan-2024 19:45
Diethyl phthalate	U		0.099	0.20	ug/L	1	04-Jan-2024 19:45
Dimethyl phthalate	U		0.055	0.20	ug/L	1	04-Jan-2024 19:45
Fluoranthene	U		0.086	0.10	ug/L	1	04-Jan-2024 19:45
Fluorene	U		0.084	0.10	ug/L	1	04-Jan-2024 19:45
Hexachlorobenzene	U		0.090	0.20	ug/L	1	04-Jan-2024 19:45
Hexachlorobutadiene	U		0.12	0.20	ug/L	1	04-Jan-2024 19:45
Hexachlorocyclopentadiene	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
Hexachloroethane	U		0.045	0.20	ug/L	1	04-Jan-2024 19:45
Indeno(1,2,3-cd)pyrene	U		0.058	0.10	ug/L	1	04-Jan-2024 19:45
Isophorone	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodi-n-propylamine	U		0.076	0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodimethylamine	U		0.059	0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodiphenylamine	U		0.024	0.20	ug/L	1	04-Jan-2024 19:45
Naphthalene	U		0.068	0.10	ug/L	1	04-Jan-2024 19:45
Nitrobenzene	U		0.068	0.20	ug/L	1	04-Jan-2024 19:45
Pentachlorophenol	U		0.20	0.20	ug/L	1	04-Jan-2024 19:45
Phenanthrene	U		0.038	0.10	ug/L	1	04-Jan-2024 19:45
Phenol	U		0.017	0.20	ug/L	1	04-Jan-2024 19:45
Pyrene	U		0.054	0.10	ug/L	1	04-Jan-2024 19:45
Surr: 2,4,6-Tribromophenol	*69.5*	*J*		*11-141*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 2-Fluorobiphenyl	*72.2*	*J*		*24-122*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 2-Fluorophenol	*64.4*	*J*		*28-86*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 4-Terphenyl-d14	*73.8*	*J*		*38-130*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: Nitrobenzene-d5	*77.9*	*J*		*15-314*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: Phenol-d6	*75.2*	*J*		*34-90*	*%REC*	*1*	*04-Jan-2024 19:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHLORINATED PEST/PCBS BY E608.3	**Method:E608.3**			Prep:E608 / 04-Jan-2024			Analyst: DLB
4,4´-DDD	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
4,4´-DDE	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
4,4´-DDT	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
Aldrin	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
alpha-BHC	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
alpha-Chlordane	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
Aroclor 1016	U		0.00900	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1221	U		0.00800	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1232	U		0.00800	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1242	U		0.00800	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1248	U		0.00800	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1254	U		0.00800	0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1260	U		0.00700	0.500	ug/L	1	05-Jan-2024 19:00
beta-BHC	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
delta-BHC	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
Dieldrin	U		0.00400	0.100	ug/L	1	06-Jan-2024 02:03
Endosulfan I	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
Endosulfan II	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
Endosulfan Sulfate	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
Endrin	U		0.00400	0.100	ug/L	1	06-Jan-2024 02:03
Endrin Aldehyde	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
Endrin ketone	U		0.00300	0.100	ug/L	1	06-Jan-2024 02:03
gamma-BHC	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
gamma-Chlordane	U		0.00100	0.0500	ug/L	1	06-Jan-2024 02:03
Heptachlor	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
Heptachlor Epoxide	U		0.00200	0.0500	ug/L	1	06-Jan-2024 02:03
Methoxychlor	U		0.0200	0.500	ug/L	1	06-Jan-2024 02:03
Surr: Decachlorobiphenyl	*115*			*61-154*	*%REC*	*1*	*05-Jan-2024 19:00*
Surr: Decachlorobiphenyl	*93.3*			*61-154*	*%REC*	*1*	*06-Jan-2024 02:03*
Surr: Tetrachloro-m-xylene	*100*			*60-144*	*%REC*	*1*	*05-Jan-2024 19:00*
Surr: Tetrachloro-m-xylene	*76.0*			*60-144*	*%REC*	*1*	*06-Jan-2024 02:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

Batch ID: 205627 **Start Date:** 04 Jan 2024 10:41 **End Date:** 04 Jan 2024 10:41
Method: AQPREP SEP FUNNEL: PEST/PCB **Prep Code:** 608_W_LOWPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121887-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 205628 **Start Date:** 04 Jan 2024 10:47 **End Date:** 04 Jan 2024 10:47
Method: 625 AQ SEP FUNNEL EXTRACT - LOW LEVEL **Prep Code:** 625PRF_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121887-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 205627 (0)	**Test Name :** CHLORINATED PEST/PCBS BY E608.3				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:41	05 Jan 2024 19:00	1
Batch ID: 205627 (1)	**Test Name :** CHLORINATED PEST/PCBS BY E608.3				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:41	06 Jan 2024 02:03	1
Batch ID: 205628 (0)	**Test Name :** SEMIVOLATILES BY E625.1				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:47	04 Jan 2024 19:45	1
Batch ID: R455622 (0)	**Test Name :** VOLATILES BY EPA 624.1				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00			02 Jan 2024 14:05	1

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (0) **Instrument: ECD_7** **Method: CHLORINATED PEST/PCBS BY E608.3**

MBLK Sample ID: **MBLK-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:37**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769145** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	0.500								
Aroclor 1221	U	0.500								
Aroclor 1232	U	0.500								
Aroclor 1242	U	0.500								
Aroclor 1248	U	0.500								
Aroclor 1254	U	0.500								
Aroclor 1260	U	0.500								
Surr: Decachlorobiphenyl	*0.01717*	*0.100*	*0.02*	*0*	*85.8*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01923*	*0.0500*	*0.02*	*0*	*96.1*	*60 - 144*				

LCS Sample ID: **LCS1-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:12**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769143** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.5236	0.500	0.5	0	105	54 - 138				
Aroclor 1260	0.5922	0.500	0.5	0	118	57 - 136				
Surr: Decachlorobiphenyl	*0.02219*	*0.100*	*0.02*	*0*	*111*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.02001*	*0.0500*	*0.02*	*0*	*100*	*60 - 144*				

LCSD Sample ID: **LCSD1-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:25**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769144** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.492	0.500	0.5	0	98.4	54 - 138	0.5236	0	20	
Aroclor 1260	0.5824	0.500	0.5	0	116	57 - 136	0.5922	1.66	20	
Surr: Decachlorobiphenyl	*0.02192*	*0.100*	*0.02*	*0*	*110*	*61 - 154*	*0.02219*	*0*	*20*	
Surr: Tetrachloro-m-xylene	*0.0196*	*0.0500*	*0.02*	*0*	*98.0*	*60 - 144*	*0.02001*	*0*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

MBLK Sample ID: **MBLK-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 02:24**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769055** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	U	0.100								
4,4´-DDE	U	0.100								
4,4´-DDT	U	0.100								
Aldrin	U	0.0500								
alpha-BHC	U	0.0500								
alpha-Chlordane	U	0.0500								
beta-BHC	U	0.0500								
delta-BHC	U	0.0500								
Dieldrin	U	0.100								
Endosulfan I	U	0.0500								
Endosulfan II	U	0.100								
Endosulfan Sulfate	U	0.100								
Endrin	U	0.100								
Endrin Aldehyde	U	0.100								
Endrin ketone	U	0.100								
gamma-BHC	U	0.0500								
gamma-Chlordane	U	0.0500								
Heptachlor	U	0.0500								
Heptachlor Epoxide	U	0.0500								
Methoxychlor	U	0.500								
Surr: Decachlorobiphenyl	*0.01854*	*0.100*	*0.02*	*0*	*92.7*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01845*	*0.0500*	*0.02*	*0*	*92.2*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

LCS Sample ID: **LCS-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 02:45**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769056** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.04859	0.100	0.05	0	97.2	53 - 144				
4,4´-DDE	0.04781	0.100	0.05	0	95.6	55 - 144				
4,4´-DDT	0.04387	0.100	0.05	0	87.7	53 - 149				
Aldrin	0.02208	0.0500	0.025	0	88.3	47 - 141				
alpha-BHC	0.02383	0.0500	0.025	0	95.3	51 - 141				
alpha-Chlordane	0.02259	0.0500	0.025	0	90.4	73 - 125				
beta-BHC	0.02281	0.0500	0.025	0	91.2	58 - 144				
delta-BHC	0.02339	0.0500	0.025	0	93.5	48 - 146				
Dieldrin	0.04775	0.100	0.05	0	95.5	56 - 144				
Endosulfan I	0.02161	0.0500	0.025	0	86.4	55 - 141				
Endosulfan II	0.04462	0.100	0.05	0	89.2	57 - 144				
Endosulfan Sulfate	0.04657	0.100	0.05	0	93.1	58 - 145				
Endrin	0.04817	0.100	0.05	0	96.3	60 - 163				
Endrin Aldehyde	0.04686	0.100	0.05	0	93.7	59 - 158				
Endrin ketone	0.04551	0.100	0.05	0	91.0	59 - 154				
gamma-BHC	0.02449	0.0500	0.025	0	98.0	53 - 142				
gamma-Chlordane	0.02208	0.0500	0.025	0	88.3	75 - 125				
Heptachlor	0.02373	0.0500	0.025	0	94.9	51 - 144				
Heptachlor Epoxide	0.02296	0.0500	0.025	0	91.8	55 - 142				
Methoxychlor	0.2189	0.500	0.25	0	87.5	59 - 150				
Surr: Decachlorobiphenyl	*0.01841*	*0.100*	*0.02*	*0*	*92.1*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01848*	*0.0500*	*0.02*	*0*	*92.4*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

LCSD Sample ID: **LCSD-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 03:06**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769057** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.0602	0.100	0.05	0	120	53 - 144	0.04859	0	20	
4,4´-DDE	0.05969	0.100	0.05	0	119	55 - 144	0.04781	0	20	
4,4´-DDT	0.05755	0.100	0.05	0	115	53 - 149	0.04387	0	20	
Aldrin	0.02744	0.0500	0.025	0	110	47 - 141	0.02208	0	20	
alpha-BHC	0.03075	0.0500	0.025	0	123	51 - 141	0.02383	0	20	
alpha-Chlordane	0.02784	0.0500	0.025	0	111	73 - 125	0.02259	0	20	
beta-BHC	0.028	0.0500	0.025	0	112	58 - 144	0.02281	0	20	
delta-BHC	0.02994	0.0500	0.025	0	120	48 - 146	0.02339	0	20	
Dieldrin	0.05949	0.100	0.05	0	119	56 - 144	0.04775	0	20	
Endosulfan I	0.02678	0.0500	0.025	0	107	55 - 141	0.02161	0	20	
Endosulfan II	0.05472	0.100	0.05	0	109	57 - 144	0.04462	0	20	
Endosulfan Sulfate	0.05858	0.100	0.05	0	117	58 - 145	0.04657	0	20	
Endrin	0.06699	0.100	0.05	0	134	60 - 163	0.04817	0	20	
Endrin Aldehyde	0.05451	0.100	0.05	0	109	59 - 158	0.04686	0	20	
Endrin ketone	0.05632	0.100	0.05	0	113	59 - 154	0.04551	0	20	
gamma-BHC	0.03179	0.0500	0.025	0	127	53 - 142	0.02449	0	20	
gamma-Chlordane	0.02737	0.0500	0.025	0	109	75 - 125	0.02208	0	20	
Heptachlor	0.03062	0.0500	0.025	0	122	51 - 144	0.02373	0	20	
Heptachlor Epoxide	0.02868	0.0500	0.025	0	115	55 - 142	0.02296	0	20	
Methoxychlor	0.2943	0.500	0.25	0	118	59 - 150	0.2189	0	20	
Surr: Decachlorobiphenyl	*0.02239*	*0.100*	*0.02*	*0*	*112*	*61 - 154*	*0.01841*	*0*	*20*	
Surr: Tetrachloro-m-xylene	*0.02292*	*0.0500*	*0.02*	*0*	*115*	*60 - 144*	*0.01848*	*0*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

MBLK Sample ID: **MBLK-205628** Units: **ug/L** Analysis Date: **05-Jan-2024 00:01**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767990** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	U	0.20								
1,2-Dichlorobenzene	U	0.20								
1,2-Diphenylhydrazine	U	0.20								
1,3-Dichlorobenzene	U	0.20								
1,4-Dichlorobenzene	U	0.20								
2,4,6-Trichlorophenol	U	0.20								
2,4-Dichlorophenol	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrophenol	U	1.0								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.10								
2-Chlorophenol	U	0.20								
2-Methylphenol	U	0.20								
2-Nitrophenol	U	0.20								
3&4-Methylphenol	U	0.40								
3,3´-Dichlorobenzidine	U	0.20								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Bromophenyl phenyl ether	U	0.20								
4-Chloro-3-methylphenol	U	0.20								
4-Chlorophenyl phenyl ether	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzidine	U	0.20								
Benzo(a)pyrene	U	0.10								
Benzo(b)fluoranthene	U	0.10								
Benzo(g,h,i)perylene	U	0.10								
Benzo(k)fluoranthene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-chloroethyl)ether	U	0.20								
Bis(2-chloroisopropyl)ether	U	0.20								

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

MBLK Sample ID: **MBLK-205628** Units: **ug/L** Analysis Date: **05-Jan-2024 00:01**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767990** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	U	0.20								
Butyl benzyl phthalate	U	0.20								
Chrysene	U	0.10								
Dibenz(a,h)anthracene	U	0.10								
Diethyl phthalate	U	0.20								
Dimethyl phthalate	U	0.20								
Di-n-butyl phthalate	U	0.20								
Di-n-octyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Hexachlorobenzene	U	0.20								
Hexachlorobutadiene	U	0.20								
Hexachlorocyclopentadiene	U	0.20								
Hexachloroethane	U	0.20								
Indeno(1,2,3-cd)pyrene	U	0.10								
Isophorone	U	0.20								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodimethylamine	U	0.20								
N-Nitrosodi-n-propylamine	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
Surr: 2,4,6-Tribromophenol	*3.001*	*5.0*	*5*	*0*	*60.0*	*11 - 141*				J
Surr: 2-Fluorobiphenyl	*3.706*	*5.0*	*5*	*0*	*74.1*	*24 - 122*				J
Surr: 2-Fluorophenol	*3.763*	*5.0*	*5*	*0*	*75.3*	*28 - 86*				J
Surr: 4-Terphenyl-d14	*4.155*	*5.0*	*5*	*0*	*83.1*	*38 - 130*				J
Surr: Nitrobenzene-d5	*3.868*	*5.0*	*5*	*0*	*77.4*	*15 - 314*				J
Surr: Phenol-d6	*4.081*	*5.0*	*5*	*0*	*81.6*	*34 - 90*				J

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCS Sample ID: **LCS-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 16:54**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767986** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.004	0.20	5	0	60.1	45 - 120				
1,2-Dichlorobenzene	3.171	0.20	5	0	63.4	45 - 120				
1,2-Diphenylhydrazine	3.945	0.20	5	0	78.9	39 - 127				
1,3-Dichlorobenzene	2.851	0.20	5	0	57.0	45 - 120				
1,4-Dichlorobenzene	2.751	0.20	5	0	55.0	40 - 120				
2,4,6-Trichlorophenol	3.808	0.20	5	0	76.2	42 - 120				
2,4-Dichlorophenol	3.223	0.20	5	0	64.5	39 - 135				
2,4-Dimethylphenol	2.886	0.20	5	0	57.7	32 - 120				
2,4-Dinitrophenol	3.224	1.0	5	0	64.5	15 - 120				
2,4-Dinitrotoluene	3.496	0.20	5	0	69.9	50 - 122				
2,6-Dinitrotoluene	3.459	0.20	5	0	69.2	50 - 120				
2-Chloronaphthalene	3.575	0.10	5	0	71.5	60 - 120				
2-Chlorophenol	2.756	0.20	5	0	55.1	40 - 120				
2-Methylphenol	3.096	0.20	5	0	61.9	45 - 120				
2-Nitrophenol	3.114	0.20	5	0	62.3	40 - 120				
3&4-Methylphenol	3.151	0.40	5	0	63.0	35 - 120				
3,3´-Dichlorobenzidine	3.02	0.20	5	0	60.4	15 - 120				
4,6-Dinitro-2-methylphenol	3.21	0.20	5	0	64.2	25 - 121				
4-Bromophenyl phenyl ether	3.304	0.20	5	0	66.1	53 - 127				
4-Chloro-3-methylphenol	3.438	0.20	5	0	68.8	47 - 120				
4-Chlorophenyl phenyl ether	3.327	0.20	5	0	66.5	50 - 120				
4-Nitrophenol	4.752	1.0	5	0	95.0	30 - 130				
Acenaphthene	3.109	0.10	5	0	62.2	47 - 145				
Acenaphthylene	3.337	0.10	5	0	66.7	47 - 120				
Anthracene	3.183	0.10	5	0	63.7	45 - 120				
Benz(a)anthracene	3.4	0.10	5	0	68.0	40 - 120				
Benzidine	1.606	0.20	5	0	32.1	10 - 120				
Benzo(a)pyrene	3.647	0.10	5	0	72.9	45 - 120				
Benzo(b)fluoranthene	3.472	0.10	5	0	69.4	50 - 120				
Benzo(g,h,i)perylene	3.154	0.10	5	0	63.1	42 - 127				
Benzo(k)fluoranthene	3.976	0.10	5	0	79.5	45 - 127				
Bis(2-chloroethoxy)methane	3.556	0.20	5	0	71.1	45 - 120				
Bis(2-chloroethyl)ether	3.065	0.20	5	0	61.3	37 - 121				
Bis(2-chloroisopropyl)ether	4.619	0.20	5	0	92.4	40 - 120				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCS Sample ID: **LCS-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 16:54**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767986** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	3.5	0.20	5	0	70.0	40 - 139				
Butyl benzyl phthalate	3.802	0.20	5	0	76.0	47 - 123				
Chrysene	3.465	0.10	5	0	69.3	43 - 120				
Dibenz(a,h)anthracene	3.027	0.10	5	0	60.5	45 - 125				
Diethyl phthalate	3.837	0.20	5	0	76.7	47 - 120				
Dimethyl phthalate	3.577	0.20	5	0	71.5	50 - 120				
Di-n-butyl phthalate	3.684	0.20	5	0	73.7	52 - 120				
Di-n-octyl phthalate	4.038	0.20	5	0	80.8	45 - 129				
Fluoranthene	3.483	0.10	5	0	69.7	45 - 125				
Fluorene	3.226	0.10	5	0	64.5	59 - 121				
Hexachlorobenzene	3.101	0.20	5	0	62.0	48 - 120				
Hexachlorobutadiene	3.499	0.20	5	0	70.0	40 - 120				
Hexachlorocyclopentadiene	3.161	0.20	5	0	63.2	34 - 136				
Hexachloroethane	3.152	0.20	5	0	63.0	40 - 120				
Indeno(1,2,3-cd)pyrene	3.333	0.10	5	0	66.7	41 - 128				
Isophorone	3.867	0.20	5	0	77.3	40 - 121				
Naphthalene	2.982	0.10	5	0	59.6	45 - 120				
Nitrobenzene	3.396	0.20	5	0	67.9	44 - 120				
N-Nitrosodimethylamine	3.537	0.20	5	0	70.7	30 - 121				
N-Nitrosodi-n-propylamine	4.154	0.20	5	0	83.1	40 - 120				
N-Nitrosodiphenylamine	3.277	0.20	5	0	65.5	40 - 125				
Pentachlorophenol	2.769	0.20	5	0	55.4	19 - 121				
Phenanthrene	3.205	0.10	5	0	64.1	54 - 120				
Phenol	3.173	0.20	5	0	63.5	20 - 120				
Pyrene	3.478	0.10	5	0	69.6	52 - 120				
Surr: 2,4,6-Tribromophenol	*3.44*	*5.0*	*5*	*0*	*68.8*	*11 - 141*				J
Surr: 2-Fluorobiphenyl	*3.719*	*5.0*	*5*	*0*	*74.4*	*24 - 122*				J
Surr: 2-Fluorophenol	*3.193*	*5.0*	*5*	*0*	*63.9*	*28 - 86*				J
Surr: 4-Terphenyl-d14	*3.556*	*5.0*	*5*	*0*	*71.1*	*38 - 130*				J
Surr: Nitrobenzene-d5	*3.969*	*5.0*	*5*	*0*	*79.4*	*15 - 314*				J
Surr: Phenol-d6	*3.669*	*5.0*	*5*	*0*	*73.4*	*34 - 90*				J

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCSD Sample ID: **LCSD-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 17:15**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767987** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.263	0.20	5	0	65.3	45 - 120	3.004	8.27	20	
1,2-Dichlorobenzene	3.274	0.20	5	0	65.5	45 - 120	3.171	3.18	20	
1,2-Diphenylhydrazine	3.999	0.20	5	0	80.0	39 - 127	3.945	1.38	20	
1,3-Dichlorobenzene	3.231	0.20	5	0	64.6	45 - 120	2.851	12.5	20	
1,4-Dichlorobenzene	2.995	0.20	5	0	59.9	40 - 120	2.751	8.49	20	
2,4,6-Trichlorophenol	3.838	0.20	5	0	76.8	42 - 120	3.808	0.788	20	
2,4-Dichlorophenol	3.343	0.20	5	0	66.9	39 - 135	3.223	3.67	20	
2,4-Dimethylphenol	2.826	0.20	5	0	56.5	32 - 130	2.886	2.1	20	
2,4-Dinitrophenol	2.886	1.0	5	0	57.7	15 - 120	3.224	11.1	20	
2,4-Dinitrotoluene	3.393	0.20	5	0	67.9	50 - 122	3.496	3	20	
2,6-Dinitrotoluene	3.259	0.20	5	0	65.2	50 - 120	3.459	5.95	20	
2-Chloronaphthalene	3.639	0.10	5	0	72.8	60 - 120	3.575	1.77	20	
2-Chlorophenol	2.881	0.20	5	0	57.6	40 - 120	2.756	4.43	20	
2-Methylphenol	3.215	0.20	5	0	64.3	45 - 120	3.096	3.78	20	
2-Nitrophenol	3.292	0.20	5	0	65.8	40 - 120	3.114	5.56	20	
3&4-Methylphenol	3.59	0.40	5	0	71.8	35 - 120	3.151	13	20	
3,3´-Dichlorobenzidine	3.029	0.20	5	0	60.6	15 - 120	3.02	0.289	20	
4,6-Dinitro-2-methylphenol	2.944	0.20	5	0	58.9	25 - 121	3.21	8.64	20	
4-Bromophenyl phenyl ether	3.142	0.20	5	0	62.8	53 - 127	3.304	5.03	20	
4-Chloro-3-methylphenol	3.576	0.20	5	0	71.5	47 - 120	3.438	3.94	20	
4-Chlorophenyl phenyl ether	3.436	0.20	5	0	68.7	50 - 120	3.327	3.23	20	
4-Nitrophenol	4.376	1.0	5	0	87.5	30 - 130	4.752	8.24	20	
Acenaphthene	3.151	0.10	5	0	63.0	47 - 145	3.109	1.32	20	
Acenaphthylene	3.441	0.10	5	0	68.8	47 - 120	3.337	3.06	20	
Anthracene	3.159	0.10	5	0	63.2	45 - 120	3.183	0.736	20	
Benz(a)anthracene	3.246	0.10	5	0	64.9	40 - 120	3.4	4.64	20	
Benzidine	1.531	0.20	5	0	30.6	10 - 120	1.606	4.73	20	
Benzo(a)pyrene	3.643	0.10	5	0	72.9	45 - 120	3.647	0.109	20	
Benzo(b)fluoranthene	3.546	0.10	5	0	70.9	50 - 120	3.472	2.12	20	
Benzo(g,h,i)perylene	3.151	0.10	5	0	63.0	42 - 127	3.154	0.1	20	
Benzo(k)fluoranthene	3.718	0.10	5	0	74.4	45 - 127	3.976	6.69	20	
Bis(2-chloroethoxy)methane	3.65	0.20	5	0	73.0	45 - 120	3.556	2.59	20	
Bis(2-chloroethyl)ether	3.369	0.20	5	0	67.4	37 - 130	3.065	9.44	20	
Bis(2-chloroisopropyl)ether	5.018	0.20	5	0	100	40 - 120	4.619	8.29	20	

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCSD Sample ID: **LCSD-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 17:15**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767987** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	3.502	0.20	5	0	70.0	40 - 139	3.5	0.0595	20	
Butyl benzyl phthalate	3.685	0.20	5	0	73.7	47 - 123	3.802	3.13	20	
Chrysene	3.435	0.10	5	0	68.7	43 - 120	3.465	0.875	20	
Dibenz(a,h)anthracene	3.043	0.10	5	0	60.9	45 - 125	3.027	0.519	20	
Diethyl phthalate	3.825	0.20	5	0	76.5	47 - 120	3.837	0.322	20	
Dimethyl phthalate	3.554	0.20	5	0	71.1	50 - 120	3.577	0.658	20	
Di-n-butyl phthalate	3.665	0.20	5	0	73.3	52 - 120	3.684	0.514	20	
Di-n-octyl phthalate	4.031	0.20	5	0	80.6	45 - 129	4.038	0.165	20	
Fluoranthene	3.374	0.10	5	0	67.5	45 - 125	3.483	3.17	20	
Fluorene	3.184	0.10	5	0	63.7	59 - 121	3.226	1.31	20	
Hexachlorobenzene	3.062	0.20	5	0	61.2	48 - 120	3.101	1.27	20	
Hexachlorobutadiene	3.664	0.20	5	0	73.3	40 - 120	3.499	4.61	20	
Hexachlorocyclopentadiene	3.138	0.20	5	0	62.8	34 - 136	3.161	0.731	20	
Hexachloroethane	3.637	0.20	5	0	72.7	40 - 120	3.152	14.3	20	
Indeno(1,2,3-cd)pyrene	3.486	0.10	5	0	69.7	41 - 128	3.333	4.49	20	
Isophorone	3.979	0.20	5	0	79.6	40 - 121	3.867	2.86	20	
Naphthalene	3.133	0.10	5	0	62.7	45 - 120	2.982	4.93	20	
Nitrobenzene	3.588	0.20	5	0	71.8	44 - 120	3.396	5.51	20	
N-Nitrosodimethylamine	3.619	0.20	5	0	72.4	30 - 121	3.537	2.29	20	
N-Nitrosodi-n-propylamine	4.211	0.20	5	0	84.2	40 - 120	4.154	1.37	20	
N-Nitrosodiphenylamine	3.089	0.20	5	0	61.8	40 - 125	3.277	5.92	20	
Pentachlorophenol	3.06	0.20	5	0	61.2	19 - 121	2.769	9.99	20	
Phenanthrene	3.193	0.10	5	0	63.9	54 - 120	3.205	0.361	20	
Phenol	3.511	0.20	5	0	70.2	20 - 120	3.173	10.1	20	
Pyrene	3.417	0.10	5	0	68.3	52 - 130	3.478	1.77	20	
Surr: 2,4,6-Tribromophenol	*3.466*	*5.0*	*5*	*0*	*69.3*	*11 - 141*	*3.44*	*0*	*20*	J
Surr: 2-Fluorobiphenyl	*3.639*	*5.0*	*5*	*0*	*72.8*	*24 - 122*	*3.719*	*0*	*20*	J
Surr: 2-Fluorophenol	*3.467*	*5.0*	*5*	*0*	*69.3*	*28 - 86*	*3.193*	*0*	*20*	J
Surr: 4-Terphenyl-d14	*3.424*	*5.0*	*5*	*0*	*68.5*	*38 - 130*	*3.556*	*0*	*20*	J
Surr: Nitrobenzene-d5	*4.045*	*5.0*	*5*	*0*	*80.9*	*15 - 314*	*3.969*	*0*	*20*	J
Surr: Phenol-d6	*3.888*	*5.0*	*5*	*0*	*77.8*	*34 - 90*	*3.669*	*0*	*20*	J

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MBLK Sample ID: **VBLKW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 13:43**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	5.00								
1,1,2,2-Tetrachloroethane	U	5.00								
1,1,2-Trichloroethane	U	5.00								
1,1-Dichloroethane	U	5.00								
1,1-Dichloroethene	U	5.00								
1,2-Dibromoethane	U	5.00								
1,2-Dichlorobenzene	U	5.00								
1,2-Dichloroethane	U	5.00								
1,2-Dichloropropane	U	5.00								
1,3-Dichlorobenzene	U	5.00								
1,4-Dichlorobenzene	U	5.00								
2-Butanone	U	10.0								
2-Chloroethyl vinyl ether	U	10.0								
Acrolein	U	20.0								
Acrylonitrile	U	10.0								
Benzene	U	5.00								
Bromodichloromethane	U	5.00								
Bromoform	U	5.00								
Bromomethane	U	5.00								
Carbon tetrachloride	U	5.00								
Chlorobenzene	U	5.00								
Chloroethane	U	5.00								
Chloroform	U	5.00								
Chloromethane	U	5.00								
cis-1,3-Dichloropropene	U	5.00								
Dibromochloromethane	U	5.00								
Ethylbenzene	U	5.00								
m,p-Xylene	U	10.0								
Methylene chloride	U	10.0								
o-Xylene	U	5.00								
Tetrachloroethene	U	5.00								
Toluene	U	5.00								
trans-1,2-Dichloroethene	U	5.00								
trans-1,3-Dichloropropene	U	5.00								

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

MBLK Sample ID: **VBLKW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 13:43**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	U	5.00								
Trichlorofluoromethane	U	5.00								
Vinyl chloride	U	2.00								
Surr: 1,2-Dichloroethane-d4	*40.52*	*5.00*	*50*	*0*	*81.0*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.99*	*5.00*	*50*	*0*	*98.0*	*82 - 124*				
Surr: Toluene-d8	*53.53*	*5.00*	*50*	*0*	*107*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

LCS Sample ID: **VLCSW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 12:58**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760797** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.58	5.00	20	0	103	70 - 130				
1,1,2,2-Tetrachloroethane	19.75	5.00	20	0	98.7	70 - 120				
1,1,2-Trichloroethane	21.32	5.00	20	0	107	77 - 113				
1,1-Dichloroethane	20.1	5.00	20	0	101	71 - 122				
1,1-Dichloroethene	22.87	5.00	20	0	114	70 - 130				
1,2-Dibromoethane	20.94	5.00	20	0	105	76 - 123				
1,2-Dichlorobenzene	19.39	5.00	20	0	96.9	77 - 113				
1,2-Dichloroethane	19.13	5.00	20	0	95.7	70 - 124				
1,2-Dichloropropane	19.86	5.00	20	0	99.3	72 - 119				
1,3-Dichlorobenzene	19.06	5.00	20	0	95.3	78 - 118				
1,4-Dichlorobenzene	18.93	5.00	20	0	94.7	79 - 113				
2-Butanone	39.9	10.0	40	0	99.8	70 - 130				
2-Chloroethyl vinyl ether	41.18	10.0	40	0	103	60 - 135				
Acrolein	41.69	20.0	40	0	104	70 - 130				
Acrylonitrile	48.76	10.0	40	0	122	70 - 130				
Benzene	19.82	5.00	20	0	99.1	74 - 120				
Bromodichloromethane	20.52	5.00	20	0	103	74 - 122				
Bromoform	19.95	5.00	20	0	99.7	73 - 128				
Bromomethane	27.31	5.00	20	0	137	70 - 130				S
Carbon tetrachloride	21.23	5.00	20	0	106	71 - 125				
Chlorobenzene	19.75	5.00	20	0	98.7	76 - 113				
Chloroethane	21.67	5.00	20	0	108	70 - 130				
Chloroform	19.8	5.00	20	0	99.0	71 - 121				
Chloromethane	18.72	5.00	20	0	93.6	70 - 129				
cis-1,3-Dichloropropene	20.17	5.00	20	0	101	73 - 127				
Dibromochloromethane	20.52	5.00	20	0	103	77 - 122				
Ethylbenzene	20.28	5.00	20	0	101	77 - 117				
m,p-Xylene	43.74	10.0	40	0	109	77 - 122				
Methylene chloride	22.97	10.0	20	0	115	70 - 127				
o-Xylene	21.02	5.00	20	0	105	75 - 119				
Tetrachloroethene	21.3	5.00	20	0	106	76 - 119				
Toluene	21.18	5.00	20	0	106	77 - 118				
trans-1,2-Dichloroethene	22.42	5.00	20	0	112	72 - 127				
trans-1,3-Dichloropropene	20.21	5.00	20	0	101	77 - 119				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

LCS Sample ID: **VLCSW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 12:58**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760797** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	21.24	5.00	20	0	106	79 - 120				
Trichlorofluoromethane	22.44	5.00	20	0	112	70 - 130				
Vinyl chloride	20.87	2.00	20	0	104	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.38*	*5.00*	*50*	*0*	*96.8*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.97*	*5.00*	*50*	*0*	*97.9*	*83 - 122*				
Surr: Toluene-d8	*50.29*	*5.00*	*50*	*0*	*101*	*81 - 119*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MS Sample ID: **HS23121383-05MS** Units: **ug/L** Analysis Date: **02-Jan-2024 15:12**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760800** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	382.4	100	400	0	95.6	70 - 130				
1,1,2,2-Tetrachloroethane	449.4	100	400	0	112	70 - 123				
1,1,2-Trichloroethane	444	100	400	0	111	70 - 117				
1,1-Dichloroethane	344	100	400	0	86.0	70 - 127				
1,1-Dichloroethene	397.8	100	400	0	99.4	70 - 130				
1,2-Dibromoethane	424.1	100	400	0	106	70 - 124				
1,2-Dichlorobenzene	437.5	100	400	0	109	70 - 115				
1,2-Dichloroethane	356.2	100	400	0	89.1	70 - 127				
1,2-Dichloropropane	375.5	100	400	0	93.9	70 - 122				
1,3-Dichlorobenzene	434.7	100	400	0	109	70 - 119				
1,4-Dichlorobenzene	430.5	100	400	0	108	70 - 114				
2-Butanone	574.2	200	800	0	71.8	70 - 130				
2-Chloroethyl vinyl ether	U	200	800	0	0	65 - 135				S
Acrolein	711.6	400	800	0	89.0	70 - 130				
Acrylonitrile	811.8	200	800	0	101	70 - 130				
Benzene	389.8	100	400	0	97.5	70 - 127				
Bromodichloromethane	404.8	100	400	0	101	70 - 124				
Bromoform	423.1	100	400	0	106	70 - 129				
Bromomethane	400.4	100	400	0	100	70 - 130				
Carbon tetrachloride	448.1	100	400	0	112	70 - 130				
Chlorobenzene	437.9	100	400	0	109	70 - 114				
Chloroethane	351.2	100	400	0	87.8	70 - 130				
Chloroform	353.5	100	400	0	88.4	70 - 125				
Chloromethane	206.2	100	400	0	51.6	70 - 130				S
cis-1,3-Dichloropropene	384.2	100	400	0	96.0	70 - 125				
Dibromochloromethane	455	100	400	0	114	70 - 124				
Ethylbenzene	459.3	100	400	0	115	70 - 124				
m,p-Xylene	964	200	800	0	121	70 - 130				
Methylene chloride	413.6	200	400	30.97	95.7	70 - 128				
o-Xylene	470.2	100	400	0	118	70 - 124				
Tetrachloroethene	498.3	100	400	0	125	70 - 130				
Toluene	467.3	100	400	0	117	70 - 123				
trans-1,2-Dichloroethene	401.2	100	400	0	100	70 - 130				
trans-1,3-Dichloropropene	393.6	100	400	0	98.4	70 - 121				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

MS Sample ID: **HS23121383-05MS** Units: **ug/L** Analysis Date: **02-Jan-2024 15:12**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760800** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	415.6	100	400	0	104	70 - 129				
Trichlorofluoromethane	402.5	100	400	0	101	70 - 130				
Vinyl chloride	291.7	40.0	400	0	72.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*793.2*	*100*	*1000*	*0*	*79.3*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*1055*	*100*	*1000*	*0*	*106*	*82 - 124*				
Surr: Toluene-d8	*1092*	*100*	*1000*	*0*	*109*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MSD Sample ID: **HS23121383-05MSD** Units: **ug/L** Analysis Date: **02-Jan-2024 15:35**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760801** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	369.4	100	400	0	92.3	70 - 130	382.4	3.47	20	
1,1,2,2-Tetrachloroethane	431.4	100	400	0	108	70 - 123	449.4	4.08	20	
1,1,2-Trichloroethane	438.9	100	400	0	110	70 - 117	444	1.16	20	
1,1-Dichloroethane	331.2	100	400	0	82.8	70 - 127	344	3.8	20	
1,1-Dichloroethene	379.7	100	400	0	94.9	70 - 130	397.8	4.66	20	
1,2-Dibromoethane	429.5	100	400	0	107	70 - 124	424.1	1.26	20	
1,2-Dichlorobenzene	415.9	100	400	0	104	70 - 115	437.5	5.06	20	
1,2-Dichloroethane	353.1	100	400	0	88.3	70 - 127	356.2	0.876	20	
1,2-Dichloropropane	376.3	100	400	0	94.1	70 - 122	375.5	0.225	20	
1,3-Dichlorobenzene	422.5	100	400	0	106	70 - 119	434.7	2.87	20	
1,4-Dichlorobenzene	416.2	100	400	0	104	70 - 114	430.5	3.4	20	
2-Butanone	570.1	200	800	0	71.3	70 - 130	574.2	0.721	20	
2-Chloroethyl vinyl ether	630.3	200	800	0	78.8	65 - 135	0	200	20	R
Acrolein	681.3	400	800	0	85.2	70 - 130	711.6	4.36	20	
Acrylonitrile	782	200	800	0	97.8	70 - 130	811.8	3.74	20	
Benzene	372.9	100	400	0	93.2	70 - 127	389.8	4.44	20	
Bromodichloromethane	384	100	400	0	96.0	70 - 124	404.8	5.28	20	
Bromoform	425.9	100	400	0	106	70 - 129	423.1	0.662	20	
Bromomethane	371.8	100	400	0	93.0	70 - 130	400.4	7.41	20	
Carbon tetrachloride	434.3	100	400	0	109	70 - 130	448.1	3.12	20	
Chlorobenzene	420.8	100	400	0	105	70 - 114	437.9	3.98	20	
Chloroethane	329.4	100	400	0	82.4	70 - 130	351.2	6.4	20	
Chloroform	337.5	100	400	0	84.4	70 - 125	353.5	4.64	20	
Chloromethane	207	100	400	0	51.8	70 - 130	206.2	0.401	20	S
cis-1,3-Dichloropropene	383.6	100	400	0	95.9	70 - 125	384.2	0.14	20	
Dibromochloromethane	437.7	100	400	0	109	70 - 124	455	3.87	20	
Ethylbenzene	448.7	100	400	0	112	70 - 124	459.3	2.33	20	
m,p-Xylene	950.4	200	800	0	119	70 - 130	964	1.42	20	
Methylene chloride	396.2	200	400	30.97	91.3	70 - 128	413.6	4.32	20	
o-Xylene	454.6	100	400	0	114	70 - 124	470.2	3.36	20	
Tetrachloroethene	487	100	400	0	122	70 - 130	498.3	2.28	20	
Toluene	448.9	100	400	0	112	70 - 123	467.3	4.02	20	
trans-1,2-Dichloroethene	381.5	100	400	0	95.4	70 - 130	401.2	5.03	20	
trans-1,3-Dichloropropene	374.4	100	400	0	93.6	70 - 121	393.6	4.99	20	

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MSD Sample ID: **HS23121383-05MSD** Units: **ug/L** Analysis Date: **02-Jan-2024 15:35**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760801** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	403.6	100	400	0	101	70 - 129	415.6	2.94	20	
Trichlorofluoromethane	383.2	100	400	0	95.8	70 - 130	402.5	4.91	20	
Vinyl chloride	275.6	40.0	400	0	68.9	70 - 130	291.7	5.67	20	S
Surr: 1,2-Dichloroethane-d4	*800.3*	*100*	*1000*	*0*	*80.0*	*70 - 126*	*793.2*	*0.89*	*20*	
Surr: 4-Bromofluorobenzene	*1050*	*100*	*1000*	*0*	*105*	*82 - 124*	*1055*	*0.482*	*20*	
Surr: Toluene-d8	*1092*	*100*	*1000*	*0*	*109*	*82 - 127*	*1092*	*0.0452*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: **HS23121887**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS23121887 **Date/Time Received:** **29-Dec-2023 15:15**

Client Name: Envirodyne **Received by:** **Si Ma**

Completed By: */S/ Corey Grandits* 30-Dec-2023 11:59 **Reviewed by:** */S/ Nieka.Carson* 04-Jan-2024 16:04

eSignature Date/Time eSignature Date/Time

Matrices: **W** Carrier name: **Client**

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 ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.8UC/3.7C	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	12/30/23	

Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: 1 VOA vial contained hedspace

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

HS23121887

Envirodyne Laboratories, Inc.
23L2930

Name: Envirodyne Laboratories, Inc
Address: 11011 Brooklet Drive, Suite 230
City: Houston, Texas 77099
Contact: Laura Bonjonia/Sherry Walker Phone: 281-568-7880

Analysis

Project No.

Client/Project **23L2930**

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	12/28/23 0700		/	(2)1 LT/Amb	Liquid	Ice	BNA EPA 625				
	Effluent					Liquid	Ice	~~Mercury (Low Level) 245.7~~	12/28/23			
	Effluent	12/28/23 0700		/	2-40ml vials	Liquid	Ice HCL	VOC 624.1				
	Effluent	1		/	(2)1 LT/Amb	Liquid	Ice	Pesticides & PCB 6081				
								Temp 4.1 C		DRM 3/1		
								3-8 Courier Blue		UF-J		

Samplers: (Signature)	Relinquished by: (Signature) Fredgett	Date: 12/29/23 Time: 12W	Received by: (Signature)	Date: 12/29/23 Time: 12W	Seal Intact?
Affiliation	Relinquished by: (Signature) Fredgett 12	Date: 12.29.23 Time: 1500	Received by: (Signature)	Date: 12.29.23 Time: 1500	Seal Intact?
	Relinquished by: (Signature)	Date: 12.29.23 Time: 1515	Received by Lab: (Signature) GM 12/29/23 15:15	Date: Time:	Seal Intact?
Remarks: Bill TO: ACS	FLOW: Meter Reading: Cl_2 Residual: Mn Correction: Cl_2 Corrected	Arrival Temp.	Data Results To: 1. Site Representative:	Date: Time:	Laboratory No.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

January 08, 2024

Laura Bonjonia
Envirodyne Laboratories, Inc.
11011 Brooklet, Suite 230
Houston, TX 770993543

Work Order: **HS23121887**

Laboratory Results for: **23L2930**

Dear Laura Bonjonia,

ALS Environmental received 1 sample(s) on Dec 29, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Andy C. Neir

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Work Order: HS23121887

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23121887-01	Effluent	Water		28-Dec-2023 07:00	29-Dec-2023 15:15	☐

Client: Envirodyne Laboratories, Inc. **CASE NARRATIVE**
Project: 23L2930
Work Order: HS23121887

Work Order Comments

• Login notes: 1 VOA vial contained hedspace

ECD Organics by Method E608.3

Batch ID: 205627

Sample ID: LCS-205627 (1)

• The multi-response compounds toxaphene and chlordane were not included in the spiking solution for the LCS/LCSD.

Sample ID: MBLK-205627 (0)

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

Sample ID: MBLK-205627 (1)

• Insufficient sample received to perform MS/MSD. LCS/LCSD provided as batch quality control.

GCMS Semivolatiles by Method E625.1

Batch ID: 205628

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method E624

Batch ID: R455622

Sample ID: CCV

• 2-Chloroethyl vinyl ether exceeded %D limits for CCV. Sample is ND for this compound.

Sample ID: VLCSW-231229

• Bromomethane exceeded QC limits for LCS .Sample is ND for this compound.

Sample ID: HS23121383-05MS

• MS/MSD was performed on an unrelated sample.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY EPA 624.1		**Method:E624.1**				Analyst: PC
1,1,1-Trichloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,1,2-Trichloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,1-Dichloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,1-Dichloroethene	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichlorobenzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,2-Dichloropropane	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,3-Dichlorobenzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
1,4-Dichlorobenzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
2-Chloroethyl vinyl ether	ND		2.0	ug/L	1	02-Jan-2024 14:05
Acrolein	ND		8.0	ug/L	1	02-Jan-2024 14:05
Acrylonitrile	ND		2.0	ug/L	1	02-Jan-2024 14:05
Benzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Bromodichloromethane	**24**		**1.0**	**ug/L**	1	02-Jan-2024 14:05
Bromoform	**2.2**		**1.0**	**ug/L**	1	02-Jan-2024 14:05
Bromomethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
Carbon Tetrachloride	ND		1.0	ug/L	1	02-Jan-2024 14:05
Chlorobenzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Chloroethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
Chloroform	**21**		**1.0**	**ug/L**	1	02-Jan-2024 14:05
Chloromethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
Cis-1,3-Dichloropropene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Dibromochloromethane	**13**		**1.0**	**ug/L**	1	02-Jan-2024 14:05
Ethylbenzene	ND		1.0	ug/L	1	02-Jan-2024 14:05
m,p-Xylene	ND		2.0	ug/L	1	02-Jan-2024 14:05
Methylene Chloride	ND		2.0	ug/L	1	02-Jan-2024 14:05
o-Xylene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Tetrachloroethene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Toluene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Trans-1,2-Dichloroethene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Trans-1,3-Dichloropropene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Trichloroethene	ND		1.0	ug/L	1	02-Jan-2024 14:05
Trichlorofluoromethane	ND		1.0	ug/L	1	02-Jan-2024 14:05
Vinyl Chloride	ND		1.0	ug/L	1	02-Jan-2024 14:05
Surr: 1,2-Dichloroethane-d4	*81.1*		*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*
Surr: 4-Bromofluorobenzene	*98.0*		*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*
Surr: Toluene-d8	*107*		*60-140*	*%REC*	*1*	*02-Jan-2024 14:05*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES BY E625.1	**Method:E625.1**			Prep:E625 / 04-Jan-2024		Analyst: GEY
1,2,4-Trichlorobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
1,2-Dichlorobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
1,2-Diphenylhydrazine	ND		0.20	ug/L	1	04-Jan-2024 19:45
1,3-Dichlorobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
1,4-Dichlorobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
2,4,6-Trichlorophenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dichlorophenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dimethylphenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
2,4-Dinitrophenol	ND		1.0	ug/L	1	04-Jan-2024 19:45
2,4-Dinitrotoluene	ND		0.20	ug/L	1	04-Jan-2024 19:45
2,6-Dinitrotoluene	ND		0.20	ug/L	1	04-Jan-2024 19:45
2-Chloronaphthalene	ND		0.10	ug/L	1	04-Jan-2024 19:45
2-Chlorophenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
2-Nitrophenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
3,3´-Dichlorobenzidine	ND		0.20	ug/L	1	04-Jan-2024 19:45
4,6-Dinitro-2-methylphenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
4-Bromophenyl phenyl ether	ND		0.20	ug/L	1	04-Jan-2024 19:45
4-Chloro-3-methylphenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
4-Chlorophenyl phenyl ether	ND		0.20	ug/L	1	04-Jan-2024 19:45
4-Nitrophenol	ND		1.0	ug/L	1	04-Jan-2024 19:45
Acenaphthene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Acenaphthylene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Anthracene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Benz(a)anthracene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Benzidine	ND		0.20	ug/L	1	04-Jan-2024 19:45
Benzo(a)pyrene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Benzo(b)fluoranthene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Benzo(g,h,i)perylene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Benzo(k)fluoranthene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroethoxy)methane	ND		0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroethyl)ether	ND		0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-chloroisopropyl)ether	ND		0.20	ug/L	1	04-Jan-2024 19:45
Bis(2-ethylhexyl)phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45
Butyl benzyl phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45
Chrysene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Dibenz(a,h)anthracene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Diethyl phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45
Dimethyl phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45
Di-n-butyl phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SEMIVOLATILES BY E625.1	**Method:E625.1**			Prep:E625 / 04-Jan-2024		Analyst: GEY
Di-n-octyl phthalate	ND		0.20	ug/L	1	04-Jan-2024 19:45
Fluoranthene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Fluorene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Hexachlorobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
Hexachlorobutadiene	ND		0.20	ug/L	1	04-Jan-2024 19:45
Hexachlorocyclopentadiene	ND		0.20	ug/L	1	04-Jan-2024 19:45
Hexachloroethane	ND		0.20	ug/L	1	04-Jan-2024 19:45
Indeno(1,2,3-cd)pyrene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Isophorone	ND		0.20	ug/L	1	04-Jan-2024 19:45
Naphthalene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Nitrobenzene	ND		0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodimethylamine	ND		0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodi-n-propylamine	ND		0.20	ug/L	1	04-Jan-2024 19:45
N-Nitrosodiphenylamine	ND		0.20	ug/L	1	04-Jan-2024 19:45
Pentachlorophenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
Phenanthrene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Phenol	ND		0.20	ug/L	1	04-Jan-2024 19:45
Pyrene	ND		0.10	ug/L	1	04-Jan-2024 19:45
Surr: 2,4,6-Tribromophenol	*69.5*	*J*	*11-141*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 2-Fluorobiphenyl	*72.2*	*J*	*24-122*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 2-Fluorophenol	*64.4*	*J*	*28-86*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: 4-Terphenyl-d14	*73.8*	*J*	*38-130*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: Nitrobenzene-d5	*77.9*	*J*	*15-314*	*%REC*	*1*	*04-Jan-2024 19:45*
Surr: Phenol-d6	*75.2*	*J*	*34-90*	*%REC*	*1*	*04-Jan-2024 19:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
Sample ID: Effluent
Collection Date: 28-Dec-2023 07:00

ANALYTICAL REPORT
WorkOrder:HS23121887
Lab ID:HS23121887-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
CHLORINATED PEST/PCBS BY E608.3	**Method:E608.3**			Prep:E608 / 04-Jan-2024		Analyst: DLB
4,4´-DDD	ND		0.100	ug/L	1	06-Jan-2024 02:03
4,4´-DDE	ND		0.100	ug/L	1	06-Jan-2024 02:03
4,4´-DDT	ND		0.100	ug/L	1	06-Jan-2024 02:03
Aldrin	ND		0.0500	ug/L	1	06-Jan-2024 02:03
alpha-BHC	ND		0.0500	ug/L	1	06-Jan-2024 02:03
alpha-Chlordane	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Aroclor 1016	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1221	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1232	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1242	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1248	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1254	ND		0.500	ug/L	1	05-Jan-2024 19:00
Aroclor 1260	ND		0.500	ug/L	1	05-Jan-2024 19:00
beta-BHC	ND		0.0500	ug/L	1	06-Jan-2024 02:03
delta-BHC	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Dieldrin	ND		0.100	ug/L	1	06-Jan-2024 02:03
Endosulfan I	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Endosulfan II	ND		0.100	ug/L	1	06-Jan-2024 02:03
Endosulfan Sulfate	ND		0.100	ug/L	1	06-Jan-2024 02:03
Endrin	ND		0.100	ug/L	1	06-Jan-2024 02:03
Endrin Aldehyde	ND		0.100	ug/L	1	06-Jan-2024 02:03
Endrin ketone	ND		0.100	ug/L	1	06-Jan-2024 02:03
gamma-BHC	ND		0.0500	ug/L	1	06-Jan-2024 02:03
gamma-Chlordane	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Heptachlor	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Heptachlor Epoxide	ND		0.0500	ug/L	1	06-Jan-2024 02:03
Methoxychlor	ND		0.500	ug/L	1	06-Jan-2024 02:03
Surr: Decachlorobiphenyl	*93.3*		*61-154*	*%REC*	*1*	*06-Jan-2024 02:03*
Surr: Decachlorobiphenyl	*115*		*61-154*	*%REC*	*1*	*05-Jan-2024 19:00*
Surr: Tetrachloro-m-xylene	*100*		*60-144*	*%REC*	*1*	*05-Jan-2024 19:00*
Surr: Tetrachloro-m-xylene	*76.0*		*60-144*	*%REC*	*1*	*06-Jan-2024 02:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

Batch ID: 205627 **Start Date:** 04 Jan 2024 10:41 **End Date:** 04 Jan 2024 10:41
Method: AQPREP SEP FUNNEL: PEST/PCB **Prep Code:** 608_W_LOWPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121887-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 205628 **Start Date:** 04 Jan 2024 10:47 **End Date:** 04 Jan 2024 10:47
Method: 625 AQ SEP FUNNEL EXTRACT - LOW LEVEL **Prep Code:** 625PRF_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23121887-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 205627 (0)	**Test Name :** CHLORINATED PEST/PCBS BY E608.3				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:41	05 Jan 2024 19:00	1
Batch ID: 205627 (1)	**Test Name :** CHLORINATED PEST/PCBS BY E608.3				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:41	06 Jan 2024 02:03	1
Batch ID: 205628 (0)	**Test Name :** SEMIVOLATILES BY E625.1				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00		04 Jan 2024 10:47	04 Jan 2024 19:45	1
Batch ID: R455622 (0)	**Test Name :** VOLATILES BY EPA 624.1				**Matrix:** Water	
HS23121887-01	Effluent	28 Dec 2023 07:00			02 Jan 2024 14:05	1

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (0) **Instrument: ECD_7** **Method: CHLORINATED PEST/PCBS BY E608.3**

MBLK Sample ID: **MBLK-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:37**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769145** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.500								
Aroclor 1221	ND	0.500								
Aroclor 1232	ND	0.500								
Aroclor 1242	ND	0.500								
Aroclor 1248	ND	0.500								
Aroclor 1254	ND	0.500								
Aroclor 1260	ND	0.500								
Surr: Decachlorobiphenyl	*0.01717*	*0.100*	*0.02*	*0*	*85.8*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01923*	*0.0500*	*0.02*	*0*	*96.1*	*60 - 144*				

LCS Sample ID: **LCS1-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:12**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769143** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.5236	0.500	0.5	0	105	54 - 138				
Aroclor 1260	0.5922	0.500	0.5	0	118	57 - 136				
Surr: Decachlorobiphenyl	*0.02219*	*0.100*	*0.02*	*0*	*111*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.02001*	*0.0500*	*0.02*	*0*	*100*	*60 - 144*				

LCSD Sample ID: **LCSD1-205627** Units: **ug/L** Analysis Date: **05-Jan-2024 19:25**
Client ID: Run ID: **ECD_7_455977** SeqNo: **7769144** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	0.492	0.500	0.5	0	98.4	54 - 138	0.5236	0	20	
Aroclor 1260	0.5824	0.500	0.5	0	116	57 - 136	0.5922	1.66	20	
Surr: Decachlorobiphenyl	*0.02192*	*0.100*	*0.02*	*0*	*110*	*61 - 154*	*0.02219*	*0*	*20*	
Surr: Tetrachloro-m-xylene	*0.0196*	*0.0500*	*0.02*	*0*	*98.0*	*60 - 144*	*0.02001*	*0*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

MBLK Sample ID: **MBLK-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 02:24**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769055** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	ND	0.100								
4,4´-DDE	ND	0.100								
4,4´-DDT	ND	0.100								
Aldrin	ND	0.0500								
alpha-BHC	ND	0.0500								
alpha-Chlordane	ND	0.0500								
beta-BHC	ND	0.0500								
delta-BHC	ND	0.0500								
Dieldrin	ND	0.100								
Endosulfan I	ND	0.0500								
Endosulfan II	ND	0.100								
Endosulfan Sulfate	ND	0.100								
Endrin	ND	0.100								
Endrin Aldehyde	ND	0.100								
Endrin ketone	ND	0.100								
gamma-BHC	ND	0.0500								
gamma-Chlordane	ND	0.0500								
Heptachlor	ND	0.0500								
Heptachlor Epoxide	ND	0.0500								
Methoxychlor	ND	0.500								
Surr: Decachlorobiphenyl	*0.01854*	*0.100*	*0.02*	*0*	*92.7*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01845*	*0.0500*	*0.02*	*0*	*92.2*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

LCS Sample ID: **LCS-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 02:45**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769056** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.04859	0.100	0.05	0	97.2	53 - 144				
4,4´-DDE	0.04781	0.100	0.05	0	95.6	55 - 144				
4,4´-DDT	0.04387	0.100	0.05	0	87.7	53 - 149				
Aldrin	0.02208	0.0500	0.025	0	88.3	47 - 141				
alpha-BHC	0.02383	0.0500	0.025	0	95.3	51 - 141				
alpha-Chlordane	0.02259	0.0500	0.025	0	90.4	73 - 125				
beta-BHC	0.02281	0.0500	0.025	0	91.2	58 - 144				
delta-BHC	0.02339	0.0500	0.025	0	93.5	48 - 146				
Dieldrin	0.04775	0.100	0.05	0	95.5	56 - 144				
Endosulfan I	0.02161	0.0500	0.025	0	86.4	55 - 141				
Endosulfan II	0.04462	0.100	0.05	0	89.2	57 - 144				
Endosulfan Sulfate	0.04657	0.100	0.05	0	93.1	58 - 145				
Endrin	0.04817	0.100	0.05	0	96.3	60 - 163				
Endrin Aldehyde	0.04686	0.100	0.05	0	93.7	59 - 158				
Endrin ketone	0.04551	0.100	0.05	0	91.0	59 - 154				
gamma-BHC	0.02449	0.0500	0.025	0	98.0	53 - 142				
gamma-Chlordane	0.02208	0.0500	0.025	0	88.3	75 - 125				
Heptachlor	0.02373	0.0500	0.025	0	94.9	51 - 144				
Heptachlor Epoxide	0.02296	0.0500	0.025	0	91.8	55 - 142				
Methoxychlor	0.2189	0.500	0.25	0	87.5	59 - 150				
Surr: Decachlorobiphenyl	*0.01841*	*0.100*	*0.02*	*0*	*92.1*	*61 - 154*				
Surr: Tetrachloro-m-xylene	*0.01848*	*0.0500*	*0.02*	*0*	*92.4*	*60 - 144*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205627 (1) **Instrument: ECD_11** **Method: CHLORINATED PEST/PCBS BY E608.3**

LCSD Sample ID: **LCSD-205627** Units: **ug/L** Analysis Date: **06-Jan-2024 03:06**
Client ID: Run ID: **ECD_11_455968** SeqNo: **7769057** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
4,4´-DDD	0.0602	0.100	0.05	0	120	53 - 144	0.04859	0	20	
4,4´-DDE	0.05969	0.100	0.05	0	119	55 - 144	0.04781	0	20	
4,4´-DDT	0.05755	0.100	0.05	0	115	53 - 149	0.04387	0	20	
Aldrin	0.02744	0.0500	0.025	0	110	47 - 141	0.02208	0	20	
alpha-BHC	0.03075	0.0500	0.025	0	123	51 - 141	0.02383	0	20	
alpha-Chlordane	0.02784	0.0500	0.025	0	111	73 - 125	0.02259	0	20	
beta-BHC	0.028	0.0500	0.025	0	112	58 - 144	0.02281	0	20	
delta-BHC	0.02994	0.0500	0.025	0	120	48 - 146	0.02339	0	20	
Dieldrin	0.05949	0.100	0.05	0	119	56 - 144	0.04775	0	20	
Endosulfan I	0.02678	0.0500	0.025	0	107	55 - 141	0.02161	0	20	
Endosulfan II	0.05472	0.100	0.05	0	109	57 - 144	0.04462	0	20	
Endosulfan Sulfate	0.05858	0.100	0.05	0	117	58 - 145	0.04657	0	20	
Endrin	0.06699	0.100	0.05	0	134	60 - 163	0.04817	0	20	
Endrin Aldehyde	0.05451	0.100	0.05	0	109	59 - 158	0.04686	0	20	
Endrin ketone	0.05632	0.100	0.05	0	113	59 - 154	0.04551	0	20	
gamma-BHC	0.03179	0.0500	0.025	0	127	53 - 142	0.02449	0	20	
gamma-Chlordane	0.02737	0.0500	0.025	0	109	75 - 125	0.02208	0	20	
Heptachlor	0.03062	0.0500	0.025	0	122	51 - 144	0.02373	0	20	
Heptachlor Epoxide	0.02868	0.0500	0.025	0	115	55 - 142	0.02296	0	20	
Methoxychlor	0.2943	0.500	0.25	0	118	59 - 150	0.2189	0	20	
Surr: Decachlorobiphenyl	*0.02239*	*0.100*	*0.02*	*0*	*112*	*61 - 154*	*0.01841*	*0*	*20*	
Surr: Tetrachloro-m-xylene	*0.02292*	*0.0500*	*0.02*	*0*	*115*	*60 - 144*	*0.01848*	*0*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

MBLK Sample ID: **MBLK-205628** Units: **ug/L** Analysis Date: **05-Jan-2024 00:01**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767990** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	0.20								
1,2-Dichlorobenzene	ND	0.20								
1,2-Diphenylhydrazine	ND	0.20								
1,3-Dichlorobenzene	ND	0.20								
1,4-Dichlorobenzene	ND	0.20								
2,4,6-Trichlorophenol	ND	0.20								
2,4-Dichlorophenol	ND	0.20								
2,4-Dimethylphenol	ND	0.20								
2,4-Dinitrophenol	ND	1.0								
2,4-Dinitrotoluene	ND	0.20								
2,6-Dinitrotoluene	ND	0.20								
2-Chloronaphthalene	ND	0.10								
2-Chlorophenol	ND	0.20								
2-Nitrophenol	ND	0.20								
3,3´-Dichlorobenzidine	ND	0.20								
4,6-Dinitro-2-methylphenol	ND	0.20								
4-Bromophenyl phenyl ether	ND	0.20								
4-Chloro-3-methylphenol	ND	0.20								
4-Chlorophenyl phenyl ether	ND	0.20								
4-Nitrophenol	ND	1.0								
Acenaphthene	ND	0.10								
Acenaphthylene	ND	0.10								
Anthracene	ND	0.10								
Benz(a)anthracene	ND	0.10								
Benzidine	ND	0.20								
Benzo(a)pyrene	ND	0.10								
Benzo(b)fluoranthene	ND	0.10								
Benzo(g,h,i)perylene	ND	0.10								
Benzo(k)fluoranthene	ND	0.10								
Bis(2-chloroethoxy)methane	ND	0.20								
Bis(2-chloroethyl)ether	ND	0.20								
Bis(2-chloroisopropyl)ether	ND	0.20								
Bis(2-ethylhexyl)phthalate	ND	0.20								
Butyl benzyl phthalate	ND	0.20								

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

MBLK Sample ID: **MBLK-205628** Units: **ug/L** Analysis Date: **05-Jan-2024 00:01**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767990** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chrysene	ND	0.10								
Dibenz(a,h)anthracene	ND	0.10								
Diethyl phthalate	ND	0.20								
Dimethyl phthalate	ND	0.20								
Di-n-butyl phthalate	ND	0.20								
Di-n-octyl phthalate	ND	0.20								
Fluoranthene	ND	0.10								
Fluorene	ND	0.10								
Hexachlorobenzene	ND	0.20								
Hexachlorobutadiene	ND	0.20								
Hexachlorocyclopentadiene	ND	0.20								
Hexachloroethane	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.10								
Isophorone	ND	0.20								
Naphthalene	ND	0.10								
Nitrobenzene	ND	0.20								
N-Nitrosodimethylamine	ND	0.20								
N-Nitrosodi-n-propylamine	ND	0.20								
N-Nitrosodiphenylamine	ND	0.20								
Pentachlorophenol	ND	0.20								
Phenanthrene	ND	0.10								
Phenol	ND	0.20								
Pyrene	ND	0.10								
Surr: 2,4,6-Tribromophenol	*3.001*	*5.0*	*5*	*0*	*60.0*	*11 - 141*				J
Surr: 2-Fluorobiphenyl	*3.706*	*5.0*	*5*	*0*	*74.1*	*24 - 122*				J
Surr: 2-Fluorophenol	*3.763*	*5.0*	*5*	*0*	*75.3*	*28 - 86*				J
Surr: 4-Terphenyl-d14	*4.155*	*5.0*	*5*	*0*	*83.1*	*38 - 130*				J
Surr: Nitrobenzene-d5	*3.868*	*5.0*	*5*	*0*	*77.4*	*15 - 314*				J
Surr: Phenol-d6	*4.081*	*5.0*	*5*	*0*	*81.6*	*34 - 90*				J

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCS Sample ID: **LCS-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 16:54**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767986** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.004	0.20	5	0	60.1	45 - 120				
1,2-Dichlorobenzene	3.171	0.20	5	0	63.4	45 - 120				
1,2-Diphenylhydrazine	3.945	0.20	5	0	78.9	39 - 127				
1,3-Dichlorobenzene	2.851	0.20	5	0	57.0	45 - 120				
1,4-Dichlorobenzene	2.751	0.20	5	0	55.0	40 - 120				
2,4,6-Trichlorophenol	3.808	0.20	5	0	76.2	42 - 120				
2,4-Dichlorophenol	3.223	0.20	5	0	64.5	39 - 135				
2,4-Dimethylphenol	2.886	0.20	5	0	57.7	32 - 120				
2,4-Dinitrophenol	3.224	1.0	5	0	64.5	15 - 120				
2,4-Dinitrotoluene	3.496	0.20	5	0	69.9	50 - 122				
2,6-Dinitrotoluene	3.459	0.20	5	0	69.2	50 - 120				
2-Chloronaphthalene	3.575	0.10	5	0	71.5	60 - 120				
2-Chlorophenol	2.756	0.20	5	0	55.1	40 - 120				
2-Nitrophenol	3.114	0.20	5	0	62.3	40 - 120				
3,3´-Dichlorobenzidine	3.02	0.20	5	0	60.4	15 - 120				
4,6-Dinitro-2-methylphenol	3.21	0.20	5	0	64.2	25 - 121				
4-Bromophenyl phenyl ether	3.304	0.20	5	0	66.1	53 - 127				
4-Chloro-3-methylphenol	3.438	0.20	5	0	68.8	47 - 120				
4-Chlorophenyl phenyl ether	3.327	0.20	5	0	66.5	50 - 120				
4-Nitrophenol	4.752	1.0	5	0	95.0	30 - 130				
Acenaphthene	3.109	0.10	5	0	62.2	47 - 145				
Acenaphthylene	3.337	0.10	5	0	66.7	47 - 120				
Anthracene	3.183	0.10	5	0	63.7	45 - 120				
Benz(a)anthracene	3.4	0.10	5	0	68.0	40 - 120				
Benzidine	1.606	0.20	5	0	32.1	10 - 120				
Benzo(a)pyrene	3.647	0.10	5	0	72.9	45 - 120				
Benzo(b)fluoranthene	3.472	0.10	5	0	69.4	50 - 120				
Benzo(g,h,i)perylene	3.154	0.10	5	0	63.1	42 - 127				
Benzo(k)fluoranthene	3.976	0.10	5	0	79.5	45 - 127				
Bis(2-chloroethoxy)methane	3.556	0.20	5	0	71.1	45 - 120				
Bis(2-chloroethyl)ether	3.065	0.20	5	0	61.3	37 - 121				
Bis(2-chloroisopropyl)ether	4.619	0.20	5	0	92.4	40 - 120				
Bis(2-ethylhexyl)phthalate	3.5	0.20	5	0	70.0	40 - 139				
Butyl benzyl phthalate	3.802	0.20	5	0	76.0	47 - 123				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCS Sample ID: **LCS-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 16:54**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767986** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chrysene	3.465	0.10	5	0	69.3	43 - 120				
Dibenz(a,h)anthracene	3.027	0.10	5	0	60.5	45 - 125				
Diethyl phthalate	3.837	0.20	5	0	76.7	47 - 120				
Dimethyl phthalate	3.577	0.20	5	0	71.5	50 - 120				
Di-n-butyl phthalate	3.684	0.20	5	0	73.7	52 - 120				
Di-n-octyl phthalate	4.038	0.20	5	0	80.8	45 - 129				
Fluoranthene	3.483	0.10	5	0	69.7	45 - 125				
Fluorene	3.226	0.10	5	0	64.5	59 - 121				
Hexachlorobenzene	3.101	0.20	5	0	62.0	48 - 120				
Hexachlorobutadiene	3.499	0.20	5	0	70.0	40 - 120				
Hexachlorocyclopentadiene	3.161	0.20	5	0	63.2	34 - 136				
Hexachloroethane	3.152	0.20	5	0	63.0	40 - 120				
Indeno(1,2,3-cd)pyrene	3.333	0.10	5	0	66.7	41 - 128				
Isophorone	3.867	0.20	5	0	77.3	40 - 121				
Naphthalene	2.982	0.10	5	0	59.6	45 - 120				
Nitrobenzene	3.396	0.20	5	0	67.9	44 - 120				
N-Nitrosodimethylamine	3.537	0.20	5	0	70.7	30 - 121				
N-Nitrosodi-n-propylamine	4.154	0.20	5	0	83.1	40 - 120				
N-Nitrosodiphenylamine	3.277	0.20	5	0	65.5	40 - 125				
Pentachlorophenol	2.769	0.20	5	0	55.4	19 - 121				
Phenanthrene	3.205	0.10	5	0	64.1	54 - 120				
Phenol	3.173	0.20	5	0	63.5	20 - 120				
Pyrene	3.478	0.10	5	0	69.6	52 - 120				
Surr: 2,4,6-Tribromophenol	*3.44*	*5.0*	*5*	*0*	*68.8*	*11 - 141*				J
Surr: 2-Fluorobiphenyl	*3.719*	*5.0*	*5*	*0*	*74.4*	*24 - 122*				J
Surr: 2-Fluorophenol	*3.193*	*5.0*	*5*	*0*	*63.9*	*28 - 86*				J
Surr: 4-Terphenyl-d14	*3.556*	*5.0*	*5*	*0*	*71.1*	*38 - 130*				J
Surr: Nitrobenzene-d5	*3.969*	*5.0*	*5*	*0*	*79.4*	*15 - 314*				J
Surr: Phenol-d6	*3.669*	*5.0*	*5*	*0*	*73.4*	*34 - 90*				J

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCSD Sample ID: **LCSD-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 17:15**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767987** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	3.263	0.20	5	0	65.3	45 - 120	3.004	8.27	20	
1,2-Dichlorobenzene	3.274	0.20	5	0	65.5	45 - 120	3.171	3.18	20	
1,2-Diphenylhydrazine	3.999	0.20	5	0	80.0	39 - 127	3.945	1.38	20	
1,3-Dichlorobenzene	3.231	0.20	5	0	64.6	45 - 120	2.851	12.5	20	
1,4-Dichlorobenzene	2.995	0.20	5	0	59.9	40 - 120	2.751	8.49	20	
2,4,6-Trichlorophenol	3.838	0.20	5	0	76.8	42 - 120	3.808	0.788	20	
2,4-Dichlorophenol	3.343	0.20	5	0	66.9	39 - 135	3.223	3.67	20	
2,4-Dimethylphenol	2.826	0.20	5	0	56.5	32 - 130	2.886	2.1	20	
2,4-Dinitrophenol	2.886	1.0	5	0	57.7	15 - 120	3.224	11.1	20	
2,4-Dinitrotoluene	3.393	0.20	5	0	67.9	50 - 122	3.496	3	20	
2,6-Dinitrotoluene	3.259	0.20	5	0	65.2	50 - 120	3.459	5.95	20	
2-Chloronaphthalene	3.639	0.10	5	0	72.8	60 - 120	3.575	1.77	20	
2-Chlorophenol	2.881	0.20	5	0	57.6	40 - 120	2.756	4.43	20	
2-Nitrophenol	3.292	0.20	5	0	65.8	40 - 120	3.114	5.56	20	
3,3´-Dichlorobenzidine	3.029	0.20	5	0	60.6	15 - 120	3.02	0.289	20	
4,6-Dinitro-2-methylphenol	2.944	0.20	5	0	58.9	25 - 121	3.21	8.64	20	
4-Bromophenyl phenyl ether	3.142	0.20	5	0	62.8	53 - 127	3.304	5.03	20	
4-Chloro-3-methylphenol	3.576	0.20	5	0	71.5	47 - 120	3.438	3.94	20	
4-Chlorophenyl phenyl ether	3.436	0.20	5	0	68.7	50 - 120	3.327	3.23	20	
4-Nitrophenol	4.376	1.0	5	0	87.5	30 - 130	4.752	8.24	20	
Acenaphthene	3.151	0.10	5	0	63.0	47 - 145	3.109	1.32	20	
Acenaphthylene	3.441	0.10	5	0	68.8	47 - 120	3.337	3.06	20	
Anthracene	3.159	0.10	5	0	63.2	45 - 120	3.183	0.736	20	
Benz(a)anthracene	3.246	0.10	5	0	64.9	40 - 120	3.4	4.64	20	
Benzidine	1.531	0.20	5	0	30.6	10 - 120	1.606	4.73	20	
Benzo(a)pyrene	3.643	0.10	5	0	72.9	45 - 120	3.647	0.109	20	
Benzo(b)fluoranthene	3.546	0.10	5	0	70.9	50 - 120	3.472	2.12	20	
Benzo(g,h,i)perylene	3.151	0.10	5	0	63.0	42 - 127	3.154	0.1	20	
Benzo(k)fluoranthene	3.718	0.10	5	0	74.4	45 - 127	3.976	6.69	20	
Bis(2-chloroethoxy)methane	3.65	0.20	5	0	73.0	45 - 120	3.556	2.59	20	
Bis(2-chloroethyl)ether	3.369	0.20	5	0	67.4	37 - 130	3.065	9.44	20	
Bis(2-chloroisopropyl)ether	5.018	0.20	5	0	100	40 - 120	4.619	8.29	20	
Bis(2-ethylhexyl)phthalate	3.502	0.20	5	0	70.0	40 - 139	3.5	0.0595	20	
Butyl benzyl phthalate	3.685	0.20	5	0	73.7	47 - 123	3.802	3.13	20	

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: 205628 (0) **Instrument: SV-7** **Method: SEMIVOLATILES BY E625.1**

LCSD Sample ID: **LCSD-205628** Units: **ug/L** Analysis Date: **04-Jan-2024 17:15**
Client ID: Run ID: **SV-7_455812** SeqNo: **7767987** PrepDate: **04-Jan-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Chrysene	3.435	0.10	5	0	68.7	43 - 120	3.465	0.875	20	
Dibenz(a,h)anthracene	3.043	0.10	5	0	60.9	45 - 125	3.027	0.519	20	
Diethyl phthalate	3.825	0.20	5	0	76.5	47 - 120	3.837	0.322	20	
Dimethyl phthalate	3.554	0.20	5	0	71.1	50 - 120	3.577	0.658	20	
Di-n-butyl phthalate	3.665	0.20	5	0	73.3	52 - 120	3.684	0.514	20	
Di-n-octyl phthalate	4.031	0.20	5	0	80.6	45 - 129	4.038	0.165	20	
Fluoranthene	3.374	0.10	5	0	67.5	45 - 125	3.483	3.17	20	
Fluorene	3.184	0.10	5	0	63.7	59 - 121	3.226	1.31	20	
Hexachlorobenzene	3.062	0.20	5	0	61.2	48 - 120	3.101	1.27	20	
Hexachlorobutadiene	3.664	0.20	5	0	73.3	40 - 120	3.499	4.61	20	
Hexachlorocyclopentadiene	3.138	0.20	5	0	62.8	34 - 136	3.161	0.731	20	
Hexachloroethane	3.637	0.20	5	0	72.7	40 - 120	3.152	14.3	20	
Indeno(1,2,3-cd)pyrene	3.486	0.10	5	0	69.7	41 - 128	3.333	4.49	20	
Isophorone	3.979	0.20	5	0	79.6	40 - 121	3.867	2.86	20	
Naphthalene	3.133	0.10	5	0	62.7	45 - 120	2.982	4.93	20	
Nitrobenzene	3.588	0.20	5	0	71.8	44 - 120	3.396	5.51	20	
N-Nitrosodimethylamine	3.619	0.20	5	0	72.4	30 - 121	3.537	2.29	20	
N-Nitrosodi-n-propylamine	4.211	0.20	5	0	84.2	40 - 120	4.154	1.37	20	
N-Nitrosodiphenylamine	3.089	0.20	5	0	61.8	40 - 125	3.277	5.92	20	
Pentachlorophenol	3.06	0.20	5	0	61.2	19 - 121	2.769	9.99	20	
Phenanthrene	3.193	0.10	5	0	63.9	54 - 120	3.205	0.361	20	
Phenol	3.511	0.20	5	0	70.2	20 - 120	3.173	10.1	20	
Pyrene	3.417	0.10	5	0	68.3	52 - 130	3.478	1.77	20	
Surr: 2,4,6-Tribromophenol	*3.466*	*5.0*	*5*	*0*	*69.3*	*11 - 141*	*3.44*	*0*	*20*	J
Surr: 2-Fluorobiphenyl	*3.639*	*5.0*	*5*	*0*	*72.8*	*24 - 122*	*3.719*	*0*	*20*	J
Surr: 2-Fluorophenol	*3.467*	*5.0*	*5*	*0*	*69.3*	*28 - 86*	*3.193*	*0*	*20*	J
Surr: 4-Terphenyl-d14	*3.424*	*5.0*	*5*	*0*	*68.5*	*38 - 130*	*3.556*	*0*	*20*	J
Surr: Nitrobenzene-d5	*4.045*	*5.0*	*5*	*0*	*80.9*	*15 - 314*	*3.969*	*0*	*20*	J
Surr: Phenol-d6	*3.888*	*5.0*	*5*	*0*	*77.8*	*34 - 90*	*3.669*	*0*	*20*	J

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

MBLK Sample ID: **VBLKW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 13:43**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.00								
1,1,2,2-Tetrachloroethane	ND	5.00								
1,1,2-Trichloroethane	ND	5.00								
1,1-Dichloroethane	ND	5.00								
1,1-Dichloroethene	ND	5.00								
1,2-Dichlorobenzene	ND	5.00								
1,2-Dichloroethane	ND	5.00								
1,2-Dichloropropane	ND	5.00								
1,3-Dichlorobenzene	ND	5.00								
1,4-Dichlorobenzene	ND	5.00								
2-Chloroethyl vinyl ether	ND	10.0								
Acrolein	ND	20.0								
Acrylonitrile	ND	10.0								
Benzene	ND	5.00								
Bromodichloromethane	ND	5.00								
Bromoform	ND	5.00								
Bromomethane	ND	5.00								
Carbon tetrachloride	ND	5.00								
Chlorobenzene	ND	5.00								
Chloroethane	ND	5.00								
Chloroform	ND	5.00								
Chloromethane	ND	5.00								
cis-1,3-Dichloropropene	ND	5.00								
Dibromochloromethane	ND	5.00								
Ethylbenzene	ND	5.00								
m,p-Xylene	ND	10.0								
Methylene chloride	ND	10.0								
o-Xylene	ND	5.00								
Tetrachloroethene	ND	5.00								
Toluene	ND	5.00								
trans-1,2-Dichloroethene	ND	5.00								
trans-1,3-Dichloropropene	ND	5.00								
Trichloroethene	ND	5.00								
Trichlorofluoromethane	ND	5.00								

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MBLK Sample ID: **VBLKW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 13:43**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	ND	2.00								
Surr: 1,2-Dichloroethane-d4	*40.52*	*5.00*	*50*	*0*	*81.0*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.99*	*5.00*	*50*	*0*	*98.0*	*82 - 124*				
Surr: Toluene-d8	*53.53*	*5.00*	*50*	*0*	*107*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

LCS Sample ID: **VLCSW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 12:58**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760797** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.58	5.00	20	0	103	70 - 130				
1,1,2,2-Tetrachloroethane	19.75	5.00	20	0	98.7	70 - 120				
1,1,2-Trichloroethane	21.32	5.00	20	0	107	77 - 113				
1,1-Dichloroethane	20.1	5.00	20	0	101	71 - 122				
1,1-Dichloroethene	22.87	5.00	20	0	114	70 - 130				
1,2-Dichlorobenzene	19.39	5.00	20	0	96.9	77 - 113				
1,2-Dichloroethane	19.13	5.00	20	0	95.7	70 - 124				
1,2-Dichloropropane	19.86	5.00	20	0	99.3	72 - 119				
1,3-Dichlorobenzene	19.06	5.00	20	0	95.3	78 - 118				
1,4-Dichlorobenzene	18.93	5.00	20	0	94.7	79 - 113				
2-Chloroethyl vinyl ether	41.18	10.0	40	0	103	60 - 135				
Acrolein	41.69	20.0	40	0	104	70 - 130				
Acrylonitrile	48.76	10.0	40	0	122	70 - 130				
Benzene	19.82	5.00	20	0	99.1	74 - 120				
Bromodichloromethane	20.52	5.00	20	0	103	74 - 122				
Bromoform	19.95	5.00	20	0	99.7	73 - 128				
Bromomethane	27.31	5.00	20	0	137	70 - 130				S
Carbon tetrachloride	21.23	5.00	20	0	106	71 - 125				
Chlorobenzene	19.75	5.00	20	0	98.7	76 - 113				
Chloroethane	21.67	5.00	20	0	108	70 - 130				
Chloroform	19.8	5.00	20	0	99.0	71 - 121				
Chloromethane	18.72	5.00	20	0	93.6	70 - 129				
cis-1,3-Dichloropropene	20.17	5.00	20	0	101	73 - 127				
Dibromochloromethane	20.52	5.00	20	0	103	77 - 122				
Ethylbenzene	20.28	5.00	20	0	101	77 - 117				
m,p-Xylene	43.74	10.0	40	0	109	77 - 122				
Methylene chloride	22.97	10.0	20	0	115	70 - 127				
o-Xylene	21.02	5.00	20	0	105	75 - 119				
Tetrachloroethene	21.3	5.00	20	0	106	76 - 119				
Toluene	21.18	5.00	20	0	106	77 - 118				
trans-1,2-Dichloroethene	22.42	5.00	20	0	112	72 - 127				
trans-1,3-Dichloropropene	20.21	5.00	20	0	101	77 - 119				
Trichloroethene	21.24	5.00	20	0	106	79 - 120				
Trichlorofluoromethane	22.44	5.00	20	0	112	70 - 130				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: **R455622 (0)** **Instrument:** **VOA9** **Method:** **VOLATILES**

LCS Sample ID: **VLCSW-231229** Units: **ug/L** Analysis Date: **02-Jan-2024 12:58**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760797** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	20.87	2.00	20	0	104	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.38*	*5.00*	*50*	*0*	*96.8*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.97*	*5.00*	*50*	*0*	*97.9*	*83 - 122*				
Surr: Toluene-d8	*50.29*	*5.00*	*50*	*0*	*101*	*81 - 119*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument:** VOA9 **Method:** VOLATILES

MS Sample ID: **HS23121383-05MS** Units: **ug/L** Analysis Date: **02-Jan-2024 15:12**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760800** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	382.4	100	400	0	95.6	70 - 130				
1,1,2,2-Tetrachloroethane	449.4	100	400	0	112	70 - 123				
1,1,2-Trichloroethane	444	100	400	0	111	70 - 117				
1,1-Dichloroethane	344	100	400	0	86.0	70 - 127				
1,1-Dichloroethene	397.8	100	400	0	99.4	70 - 130				
1,2-Dichlorobenzene	437.5	100	400	0	109	70 - 115				
1,2-Dichloroethane	356.2	100	400	0	89.1	70 - 127				
1,2-Dichloropropane	375.5	100	400	0	93.9	70 - 122				
1,3-Dichlorobenzene	434.7	100	400	0	109	70 - 119				
1,4-Dichlorobenzene	430.5	100	400	0	108	70 - 114				
2-Chloroethyl vinyl ether	ND	200	800	0	0	65 - 135				S
Acrolein	711.6	400	800	0	89.0	70 - 130				
Acrylonitrile	811.8	200	800	0	101	70 - 130				
Benzene	389.8	100	400	0	97.5	70 - 127				
Bromodichloromethane	404.8	100	400	0	101	70 - 124				
Bromoform	423.1	100	400	0	106	70 - 129				
Bromomethane	400.4	100	400	0	100	70 - 130				
Carbon tetrachloride	448.1	100	400	0	112	70 - 130				
Chlorobenzene	437.9	100	400	0	109	70 - 114				
Chloroethane	351.2	100	400	0	87.8	70 - 130				
Chloroform	353.5	100	400	0	88.4	70 - 125				
Chloromethane	206.2	100	400	0	51.6	70 - 130				S
cis-1,3-Dichloropropene	384.2	100	400	0	96.0	70 - 125				
Dibromochloromethane	455	100	400	0	114	70 - 124				
Ethylbenzene	459.3	100	400	0	115	70 - 124				
m,p-Xylene	964	200	800	0	121	70 - 130				
Methylene chloride	413.6	200	400	30.97	95.7	70 - 128				
o-Xylene	470.2	100	400	0	118	70 - 124				
Tetrachloroethene	498.3	100	400	0	125	70 - 130				
Toluene	467.3	100	400	0	117	70 - 123				
trans-1,2-Dichloroethene	401.2	100	400	0	100	70 - 130				
trans-1,3-Dichloropropene	393.6	100	400	0	98.4	70 - 121				
Trichloroethene	415.6	100	400	0	104	70 - 129				
Trichlorofluoromethane	402.5	100	400	0	101	70 - 130				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: **R455622 (0)** **Instrument:** **VOA9** **Method:** **VOLATILES**

MS Sample ID: **HS23121383-05MS** Units: **ug/L** Analysis Date: **02-Jan-2024 15:12**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760800** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	291.7	40.0	400	0	72.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*793.2*	*100*	*1000*	*0*	*79.3*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*1055*	*100*	*1000*	*0*	*106*	*82 - 124*				
Surr: Toluene-d8	*1092*	*100*	*1000*	*0*	*109*	*82 - 127*				

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: R455622 (0) **Instrument: VOA9** **Method: VOLATILES**

MSD Sample ID: **HS23121383-05MSD** Units: **ug/L** Analysis Date: **02-Jan-2024 15:35**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760801** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	369.4	100	400	0	92.3	70 - 130	382.4	3.47	20	
1,1,2,2-Tetrachloroethane	431.4	100	400	0	108	70 - 123	449.4	4.08	20	
1,1,2-Trichloroethane	438.9	100	400	0	110	70 - 117	444	1.16	20	
1,1-Dichloroethane	331.2	100	400	0	82.8	70 - 127	344	3.8	20	
1,1-Dichloroethene	379.7	100	400	0	94.9	70 - 130	397.8	4.66	20	
1,2-Dichlorobenzene	415.9	100	400	0	104	70 - 115	437.5	5.06	20	
1,2-Dichloroethane	353.1	100	400	0	88.3	70 - 127	356.2	0.876	20	
1,2-Dichloropropane	376.3	100	400	0	94.1	70 - 122	375.5	0.225	20	
1,3-Dichlorobenzene	422.5	100	400	0	106	70 - 119	434.7	2.87	20	
1,4-Dichlorobenzene	416.2	100	400	0	104	70 - 114	430.5	3.4	20	
2-Chloroethyl vinyl ether	630.3	200	800	0	78.8	65 - 135	0	200	20	R
Acrolein	681.3	400	800	0	85.2	70 - 130	711.6	4.36	20	
Acrylonitrile	782	200	800	0	97.8	70 - 130	811.8	3.74	20	
Benzene	372.9	100	400	0	93.2	70 - 127	389.8	4.44	20	
Bromodichloromethane	384	100	400	0	96.0	70 - 124	404.8	5.28	20	
Bromoform	425.9	100	400	0	106	70 - 129	423.1	0.662	20	
Bromomethane	371.8	100	400	0	93.0	70 - 130	400.4	7.41	20	
Carbon tetrachloride	434.3	100	400	0	109	70 - 130	448.1	3.12	20	
Chlorobenzene	420.8	100	400	0	105	70 - 114	437.9	3.98	20	
Chloroethane	329.4	100	400	0	82.4	70 - 130	351.2	6.4	20	
Chloroform	337.5	100	400	0	84.4	70 - 125	353.5	4.64	20	
Chloromethane	207	100	400	0	51.8	70 - 130	206.2	0.401	20	S
cis-1,3-Dichloropropene	383.6	100	400	0	95.9	70 - 125	384.2	0.14	20	
Dibromochloromethane	437.7	100	400	0	109	70 - 124	455	3.87	20	
Ethylbenzene	448.7	100	400	0	112	70 - 124	459.3	2.33	20	
m,p-Xylene	950.4	200	800	0	119	70 - 130	964	1.42	20	
Methylene chloride	396.2	200	400	30.97	91.3	70 - 128	413.6	4.32	20	
o-Xylene	454.6	100	400	0	114	70 - 124	470.2	3.36	20	
Tetrachloroethene	487	100	400	0	122	70 - 130	498.3	2.28	20	
Toluene	448.9	100	400	0	112	70 - 123	467.3	4.02	20	
trans-1,2-Dichloroethene	381.5	100	400	0	95.4	70 - 130	401.2	5.03	20	
trans-1,3-Dichloropropene	374.4	100	400	0	93.6	70 - 121	393.6	4.99	20	
Trichloroethene	403.6	100	400	0	101	70 - 129	415.6	2.94	20	
Trichlorofluoromethane	383.2	100	400	0	95.8	70 - 130	402.5	4.91	20	

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: HS23121887

QC BATCH REPORT

Batch ID: **R455622 (0)** **Instrument:** **VOA9** **Method:** **VOLATILES**

MSD Sample ID: **HS23121383-05MSD** Units: **ug/L** Analysis Date: **02-Jan-2024 15:35**
Client ID: Run ID: **VOA9_455622** SeqNo: **7760801** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Vinyl chloride	275.6	40.0	400	0	68.9	70 - 130	291.7	5.67	20	S
Surr: 1,2-Dichloroethane-d4	*800.3*	*100*	*1000*	*0*	*80.0*	*70 - 126*	*793.2*	*0.89*	*20*	
Surr: 4-Bromofluorobenzene	*1050*	*100*	*1000*	*0*	*105*	*82 - 124*	*1055*	*0.482*	*20*	
Surr: Toluene-d8	*1092*	*100*	*1000*	*0*	*109*	*82 - 127*	*1092*	*0.0452*	*20*	

The following samples were analyzed in this batch: HS23121887-01

Client: Envirodyne Laboratories, Inc.
Project: 23L2930
WorkOrder: **HS23121887**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-32	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS23121887 **Date/Time Received:** **29-Dec-2023 15:15**

Client Name: Envirodyne **Received by:** **Si Ma**

Completed By:	/S/ Corey Grandits	30-Dec-2023 11:59	**Reviewed by:**	/S/ Nieka.Carson	04-Jan-2024 16:04
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **Client**

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 ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	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 ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.8UC/3.7C	IR31
Cooler(s)/Kit(s):	Blue	
Date/Time sample(s) sent to storage:	12/30/23	

Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: 1 VOA vial contained hedspace

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

HS23121887

Envirodyne Laboratories, Inc.
23L2930

Name: Envirodyne Laboratories, Inc
Address: 11011 Brooklet Drive, Suite 230
City: Houston, Texas 77099
Contact: Laura Bonjonia/Sherry Walker Phone: 281-568-7880

Analysis

Project No.

Client/Project **23L2930**

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	12/28/23 0700		/	(2)1 LT/Amb	Liquid	Ice	BNA EPA 625				
	Effluent					Liquid	Ice	~~Mercury (Low Level) 245.7~~	12/28/23			
	Effluent	12/28/23 0700		/	2-40ml vials	Liquid	Ice HCL	VOC 624.1				
	Effluent	1		/	(2)1 LT/Amb	Liquid	Ice	Pesticides & PCB 6081				
								Temp 4.1 C		DRM 3/1		
								3-8 Cooler Blue		UF-J		

Samplers: (Signature)	Relinquished by: (Signature) Fredgett	Date: 12/29/23 Time: 1200	Received by: (Signature)	Date: 12/29/23 Time: 1200 Seal Intact?
Affiliation	Relinquished by: (Signature) Fredgett 12	Date: 12.29.23 Time: 1500	Received by: (Signature)	Date: 12.29.23 Time: 1500 Seal Intact?
	Relinquished by: (Signature)	Date: 12.29.23 Time: 1515	Received by Lab: (Signature) GM 12/29/23 15:15	Date: Time: Seal Intact?
Remarks: Bill TO: ACS	FLOW: Meter Reading: Cl_2 Residual: Mn Correction: Cl_2 Corrected	Arrival Temp.	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

January 11, 2024

Sherry Walker
Envirodyne Laboratories, Inc
11011 Brooklet Drive
Suite 230
Houston, TX 77099

RE: Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Dear Sherry Walker:

Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Lacole Barnes, Envirodyne Laboratories, Inc
Laura Bonjonia, Envirodyne Laboratories, Inc
Daniela Mireles, Envirodyne Laboratories, Inc

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40272818001	**EFFLUENT 23L2930**	Water	12/28/23 07:00	01/04/24 10:20
40272818002	**FIELD BLANK**	Water	12/28/23 00:00	01/04/24 10:20

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(920)469-2436

SAMPLE ANALYTE COUNT

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40272818001	**EFFLUENT 23L2930**	EPA 1631E	MRP	1
40272818002	**FIELD BLANK**	EPA 1631E	MRP	1

PASI-G = Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Sample: EFFLUENT 23L2930 **Lab ID: 40272818001** Collected: 12/28/23 07:00 Received: 01/04/24 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**1.32**	ng/L	0.50	1	01/08/24 11:00	01/10/24 11:35	7439-97-6	

Sample: FIELD BLANK **Lab ID: 40272818002** Collected: 12/28/23 00:00 Received: 01/04/24 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1631E Mercury, Low Level	Analytical Method: EPA 1631E Preparation Method: EPA 1631E Pace Analytical Services - Green Bay							
Mercury	**0.316J**	ng/L	0.50	1	01/08/24 11:00	01/10/24 14:15	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

QC Batch: 464482
QC Batch Method: EPA 1631E
Analysis Method: EPA 1631E
Analysis Description: 1631E Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40272818001, 40272818002

METHOD BLANK: 2663784 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 11:03	

METHOD BLANK: 2663785 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 12:26	

METHOD BLANK: 2663786 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.50	01/10/24 14:28	

METHOD BLANK: 2663787 Matrix: Water
Associated Lab Samples: 40272818001, 40272818002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ng/L	ND	0.53	01/10/24 11:09	

LABORATORY CONTROL SAMPLE: 2663788

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	5.00	100	79-121	

LABORATORY CONTROL SAMPLE: 2663789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ng/L	5	4.69	94	79-121	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665057 2665058

Parameter	Units	40272906001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	26.4	42.1	42.1	63.5	65.5	88	93	75-125	3	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2665059 2665060

Parameter	Units	40272884002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ng/L	1.32	2	2	3.08	3.14	88	91	75-125	2	24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: EFFLUENT 23L2930
Pace Project No.: 40272818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40272818001	**EFFLUENT 23L2930**	EPA 1631E	464482	EPA 1631E	464786
40272818002	**FIELD BLANK**	EPA 1631E	464482	EPA 1631E	464786

40272818

Pace Analytical www.pacelabs.com Green Bay, WI

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: of

Section A Required Client Information		Section B Required Project Information	Section C Invoice Information
Company	Envirodyne	Report To Envirodyne	Attention ap@envirodyne.com
Address	11011 Brooklet Drive	Copy To	Company Name. Envirodyne
	Houston, Texas 77099		Address
Email To	See Envirodyne Distro list	Purchase Order No.	Pace Quote Reference
Phone	Fax	Project Name	Pace Project Manager
Requested Due Date/TAT:		Project Number	Pace Profile #

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Low Level Mercury EPA 1631E	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Effluent 23L2930			12/28/23																	001
2	① Field Blank				0700																002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Fedge #8	1/3/24	1400		1/3/24	1400				
	Fedge #12	1/3/24	1700	UPS	1/3/24	1730				
	UPS	1/4/24	1020	pace	1/4/24	1020	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

*Important Note By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1 5% per month for any invoices not paid within 30 days

F-ALL-Q-020rev 07, 15-Feb-2007

Sample Preservation Receipt Form

Client Name: Envirodyne

Project # 40272818

All containers needing preservation have been checked and noted below. ☐Yes ☐No ☒N/A

Lab Lot# of pH paper:

Lab Std #ID of preservation (if pH adjusted):

Initial when completed:

Date/ Time

Pace Lab #	Glass: AG1U	BG1U	AG1H	AG4S	AG5U	AG2S	BG3U	Plastic: BP1U	BP3U	BP3B	BP3N	BP3S	BP2Z	Vials: VG9C	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	JG9U	WGFU	WPFU	General: SP5T	ZPLC	GN 1	GN 2	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001							23																											2.5 / 5
002							1																											2.5 / 5
003																																		2.5 / 5
004																																		2.5 / 5
005																																		2.5 / 5
006																																		2.5 / 5
007																																		2.5 / 5
008																																		2.5 / 5
009																																		2.5 / 5
010																																		2.5 / 5
011																																		2.5 / 5
012																																		2.5 / 5
013																																		2.5 / 5
014																																		2.5 / 5
015																																		2.5 / 5
016							11/4/24 MC																											2.5 / 5
017																																		2.5 / 5
018																																		2.5 / 5
019																																		2.5 / 5
020																																		2.5 / 5

Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other.

Headspace in VOA Vials (>6mm). ☐Yes ☐No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9C	40 mL clear ascorbic w/ HCl	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL amber Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG5U	100 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH + Zn	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres					GN 1	
						GN 2	

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40272818

Client Name: Environdyne

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☒ UPS ☐ Waltco ☐ Client ☐ Pace Other:

Tracking #: 1Z6E96Y10132104536

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - 134 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

Cooler Temperature Uncorr: 3.0 /Corr: 3.0

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 1/4/24 /Initials: NK

Labeled By Initials: MH

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. proj.name/#, pg.#, 1/4/24 NK
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☒No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- DI VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time.
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
Correct Type: ~~Pace Green Bay,~~ Pace IR, Non-Pace		
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC: mlt 1/8/24 -Includes date/time/ID/Analysis Matrix: WU	☒Yes ☐No ☐N/A	12. 002 labeled as effluent mlt 1/8/24
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:
Project:
Work Order:

Reported:

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Tinesha Robinson, Client Services Representative

TCEQ Certification # T104704265

23L2938 320 MLO 12/12/23

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A422553

Page _____ Of _____

Name: City of Lake Jackson
Address: 25 Oak Drive
City: Lake Jackson, Tx 77566
Contact: Carine Torrance

Analysis Request and Chain of Custody Record

Phone: 832-338-1036 Email:

Project No.

Client/Project: Lake Jackson - Permit Renewal

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	12/28/23 0700		✓	250ml glass	Liquid	Ice	Low Level Hg (EPA 245.7)				
	Field Blank - Low Level Hg			✓	250ml glass	Liquid	Ice	Low Level Hg (EPA 245.7) - Field Blank				
	Effluent			✓	(4) 40ml VOA	Liquid	Ice, HCL	VOC (624.1)				
	Effluent			✓	(3) 1 L Amber	Liquid	Ice	BNA (EPA 625.1)				
	Effluent			✓	(3) 1 L Amber	Liquid	Ice	Pesticides, PCBs (EPA 608.1)				

Samplers: (Signature)	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: 12-28-23 Time: 1040 Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
	Relinquished by: (Signature)	Date: 12/28/23 Time: 1630	Received by Lab: (Signature)	Date: 12/28/23 Time: 1630 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl_2 Residual: Mn Correction: Cl_2 Corrected	Arrival Temp. 2.2/2.0 IR#4	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.