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.

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 Galveston (CN # 600241376) operates Airport Wastewater Treatment Plant RN 10164303. an Activated Sludge Process Plant. The facility is located 7618 Mustang Road, in Galveston, Galveston County, Texas 77551.

Renewal to discharge 4.75 MGD of treated domestic wastewater

Discharges from the facility are expected to contain Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Total Copper (CU), Enterococcus .Domestic Wastewater is treated by *Activated Sludge Process*.

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 Galveston CN600241376.Opera la Planta de Tratamiento de Aguas Residuales. RN10164303.Una Planta de proceso de lodos Activados. La instalación está ubicado en 7618 Mustang Road en Galveston, Condado de Galveston Texas,77551

Renovación para descargar 4.75 MGD. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda Bioquímica (BOD),solidos suspendidos totales (TSS), cobre total (CU) y Enterococos. Las aguas residuales domesticas tratado por Mediante un proceso de lodos activados.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010688002

APPLICATION. City of Galveston, 823 Rosenberg Street, Galveston, Texas 77550, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010688002 (EPA I.D. No. TX0027791) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,760,000 gallons per day The domestic wastewater treatment facility is located at 7618 Mustang Drive, in the city of Galveston, in Galveston County, Texas 77554 The discharge route is from the plant site to a tidal canal that connects Madeline Lake to Offats Bayou (Madeline Lake Channel); thence to Offatts Bayou; thence to West Bay. TCEQ received this application on June 17, 2024. The permit application will be available for viewing and copying at Galveston City Hall, 823 Rosenberg Street, Galveston, in Galveston County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-94.848055,29.270277&level=18

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

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

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

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

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

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

Further information may also be obtained from City of Galveston at the address stated above or by calling Mr. Trino Pedraza, Director of Public Works, at 409-797-3630.

Issuance Date: July 22, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010688002

SOLICITUD. Ciudad de Galveston, 823 Rosenberg Street, Galveston, Texas 77550, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010688002 (EPA I.D. No. TX 0027791) 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 4.76 million galones por día.
La planta está ubicada 7618 Mustang Road en el Condado de Galveston, Texas. La ruta de descarga es del sitio de la planta a la parte baja de la Bahía de Galveston en el segmento 2424 de las bahías y estuarios. La TCEQ recibió esta solicitud el 30 de junio, 2023. La solicitud para el permiso estará disponible para leerla y copiarla en Galveston City Hall, 823 Rosenberg Street, Galveston, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-94.827222,29.299444&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos

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

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

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

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

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y

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

También se puede obtener información adicional de la Ciudad de Galveston a la dirección indicada arriba o llamando al Sr. Trino Pedraza al numero 409-797-3630.

Fecha de emission: 22 de julio de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010688002

APPLICATION AND PRELIMINARY DECISION. City of Galveston, 823 Rosenberg Street, Galveston, Texas 77550, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010688002, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4,760,000 gallons per day. TCEQ received this application on June 17, 2024.

The facility is located at 7618 Mustang Drive, in the City of Galveston, Galveston County, Texas 77554. The treated effluent is discharged to a tidal canal that connects Madeline Lake to Offatts Bayou (Madeline Lake Channel), thence to Offatts Bayou, thence to West Bay in Segment No. 2424 of the Bays and Estuaries. The unclassified receiving water uses are high aquatic life use for Tidal canal (Madeline Lake Channel), and Offatts Bayou. The designated uses for Segment No. 2424 are primary contact recreation high aquatic life use, and oyster waters. 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=-94.848055,29.270277&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 Galveston City Hall, Public Viewing Office, 823 Rosenberg Street, Galveston, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Galveston at the address stated above or by calling Mr. Tyson Arnold, Director of Public Works, at 409-797-3630.

Issuance Date: May 9, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

RENOVACIÓN

PERMISO NO. WQ0010688002

SOLICITUD Y DECISIÓN PRELIMINAR. La cuidad de Galveston, 823 Rosenberg Street, Galveston, Texas, 77550 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 375,000 galones por día. La TCEQ recibió esta solicitud el 17 de Junio 2024.

La planta está ubicada en 7618 Mustang Drive, en la cuidad de Galveston, Texas, 77554 Co El efluente tratado es descargado a un canal de mareas que conecta el lago Madeline con Offats Bayou(canal del lago Madeline), de allí a Offats Bayou y de allí a West bay en el segmento n 2424 de bahías de Galveston, Texas, Río Madeline Bay. Los usos no clasificados de las aguas receptoras son recreativos usos de la vida acuática para Madeline Bay. Los usos designados para el Segmento No. 2424 son uso excepcional de vida acuática; agua para ostras, navegación y recreación sin contacto.

El director ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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 823 Rosenberg Street, City Hall, Galveston, Texas, 77550, Galveston. 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://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos adicionales 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 Del Ciudad de Galveston la dirección indicada arriba o llamando a Señor Tyson Arnold al 409-797-3630.

Fecha de emission: 9 de mayo de 2025

TPDES PERMIT NO.
WQ0010688002
[For TCEQ office use only - EPA I.D. No. TX0027791]

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

This is a renewal that replaces TPDES Permit No. WQ0010688002 issued on February 11, 2020.

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

City of Galveston

whose mailing address is

823 Rosenberg Street
Galveston, Texas 77550

is authorized to treat and discharge wastes from the Airport Wastewater Treatment Facility, SIC Code 4952

located at 7618 Mustang Drive, in the City of Galveston, Galveston County, Texas 77554

to a tidal canal that connects Madeline Lake to Offatts Bayou (Madeline Lake Channel), thence to Offatts Bayou, thence to West Bay in Segment No. 2424 of the Bays and Estuaries

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

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 4.76 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 3.75 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 7,812 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	20 (626)	30	45	65	Two/week	Composite
Total Suspended Solids	20 (626)	30	45	65	Two/week	Composite
Total Copper	0.0121 (0.378)	N/A	0.0256	0.0363	One/week	Composite
Enterococci, colony-forming units or most probable number per 100 ml	35	N/A	104	N/A	One/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 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 2.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 4.76 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 4.76 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 9,493 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
Biochemical Oxygen Demand (5-day)	10 (397)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (595)	25	40	60	Two/week	Composite
Total Copper	0.0121 (0.48)	N/A	0.0256	0.0363	One/week	Composite
Enterococci, colony-forming units or most probable number per 100 ml	35	N/A	104	N/A	One/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 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.

    b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

    d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

    e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

    f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. 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 chronic aquatic life mixing zone. The mixing zone is defined as a volume within a radius of 100 feet from the point of discharge.

4. The permittee submitted evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3) (on file). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)

5. 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, one/week may be reduced to two/month in both phases. **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.

6. Prior to construction of the Final phase treatment facility, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting

Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Page 2a of this permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

7. The permittee shall notify the TCEQ Regional Office (MC Region 12) and the Applications Review and Processing Team (MC 148) of the Water Quality Division in writing at least forty-five days prior to the completion of the new facility on Notification of Completion Form 20007.

8. Violations of daily maximum limitations for the following pollutants shall be reported orally or by facsimile to TCEQ Region 12 within 24 hours from the time the permittee becomes aware of the violation followed by a written report within five working days to the TCEQ Region 12 Office and the Enforcement Division (MC 224).

POLLUTANT	MAL, µg/L
Total Copper	2.0

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

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

When a reported value is zero based on this MAL provision, the permittee shall submit the following statement with the self-reporting form either as a separate attachment to the form or as a statement in the comments section of the form.

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

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

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Galveston** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **May 16, 1984**, and modified on **January 8, 1993**, and on **April 22, 2013 (Streamlining Rule).**

   The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

   a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.

   b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.

   c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.

   d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

      Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

      (1) Statement of duration (in no case more than five years);
      (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
      (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
      (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;

(5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and

(6) Requirements to control slug discharges, if determined by the POTW to be necessary.

e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).

f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).

g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.

h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.

2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

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

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

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

(12) months of the issued date of TPDES Permit No. WQ0010688001 The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per year** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

   The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) *[rev. 10/14/05]* or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **January** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **January** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [*rev. 10/22/15*] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

   a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:

(1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.

(2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [*rev. 10/14/05*], then the list must also identify:

- categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [*rev. 10/22/15*] and (3);
- those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
- those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).

(3) Control mechanism status.

- Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
- Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
- Include the type of general control mechanisms; and
- Report all NSCIU annual evaluations performed, as applicable.

(4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:

- Total number of inspections performed; and
- Total number of sampling events conducted.

(5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) - no violations during the pretreatment year reporting period;
- Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) - in accordance with requirements described above in this section.

(6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.

b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.

c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.

d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.

e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.

f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.

g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (*See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.*)

h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.

i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. *[rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].*

5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days

of the permittee's knowledge of the following:

a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and

b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee:_____ Treatment Plant: _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS[1] LIST																
Industrial User Name	SIC or NAICS Code	CIU[2]	CONTROL MECHANISM				New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
										REPORTS						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				BMR	90-Day	Semi-Annual	Self-Monitoring[8]	NSCIU Certifications	Effluent Limits	Narrative Standards

1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.

4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g*. the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g*. where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g*. the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____ Permittee: _____ Treatment Plant: _____

INDUSTRIAL USER INVENTORY MODIFICATIONS					
FACILITY NAME, ADDRESS AND CONTACT PERSON	ADD, CHANGE, DELETE (Including categorical reclassification to NSCIU or MTCIU)	IF DELETION: Reason For Deletion	IF ADDITION OR SIGNIFICANT CHANGE:		
			PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE [9] (In gpd) R = Regulated U = Unregulated T = Total

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____Permittee: _____ Treatment Plant: _____

Overall SNC ___% SNC [10] based on: Effluent Violations_____%
Reporting Violations_____% Narrative Standard Violations___%

Noncompliant Industrial Users - Enforcement Actions Taken															
Industrial User Name	Nature of Violation [11]				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		

10 # %
__ __ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)
__ __ Reporting Requirements [WENDB-PSNC]
__ __ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee: _____ Treatment Plant: _____

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
METALS, CYANIDE AND PHENOLS												
Antimony, Total												
Arsenic, Total												
Beryllium, Total												
Cadmium, Total												
Chromium, Total												
Chromium (Hex)												
Chromium (Tri)[5]												
Copper, Total												
Lead, Total												
Mercury, Total												
Nickel, Total												
Selenium, Total												
Silver, Total												
Thallium, Total												
Zinc, Total												

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Cyanide, Available [6]											
Cyanide, Total											
Phenols, Total											
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile											
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene											
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS											
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachloro- cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											
Naphthalene											
Nitrobenzene											
N-Nitrosodimethylamine											
N-Nitrosodi-n-Propylamine											
N-Nitrosodiphenylamine											
Phenanthrene											
Pyrene											
1,2,4-Trichlorobenzene											
PESTICIDES											
Aldrin											
Alpha-hexachlorocyclohexane (BHC)											
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4,4-DDT											
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachlorophene											
4,4-Isopropylidenediphenol (bisphenol A) [9]											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) [9]											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion											
Pentachlorobenzene											
Pyridine											
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene											
2,4,5-TP (Silvex)											
Tributyltin [9]											
2,4,5-Trichlorophenol											
TTHM (Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Trihalomethanes)											

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).

2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

   The % of the MAHL is to be calculated using the following formulas:

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

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

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/L of all influent samples collected during the pretreatment year.
Q_{WWTP} =	Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
$L_{\%}$ =	% of the MAHL
MAHL =	Calculated MAHL in lb/day
8.34 =	Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.

4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.

5. Report result by subtracting Hexavalent Chromium from Total Chromium.

6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.

7. Hydrolyzes in water. Will not require permittee to analyze at this time.

8. EPA procedure not approved. Will not require permittee to analyze at this time.

9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

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 6%, 8%, 11%, 15%, and 20% effluent. The critical dilution, defined as 15% 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%												
6%												
8%												
11%												
15%												
20%												

* 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%	6%	8%	11%	15%	20%
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%	6%	8%	11%	15%	20%
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 (15%): _____ 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 (15%): _____ 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%									
6%									
8%									
11%									
15%									
20%									

* 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%							
6%							
8%							
11%							
15%							
20%							
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 (15%): _____ 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 (15%): _____ 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

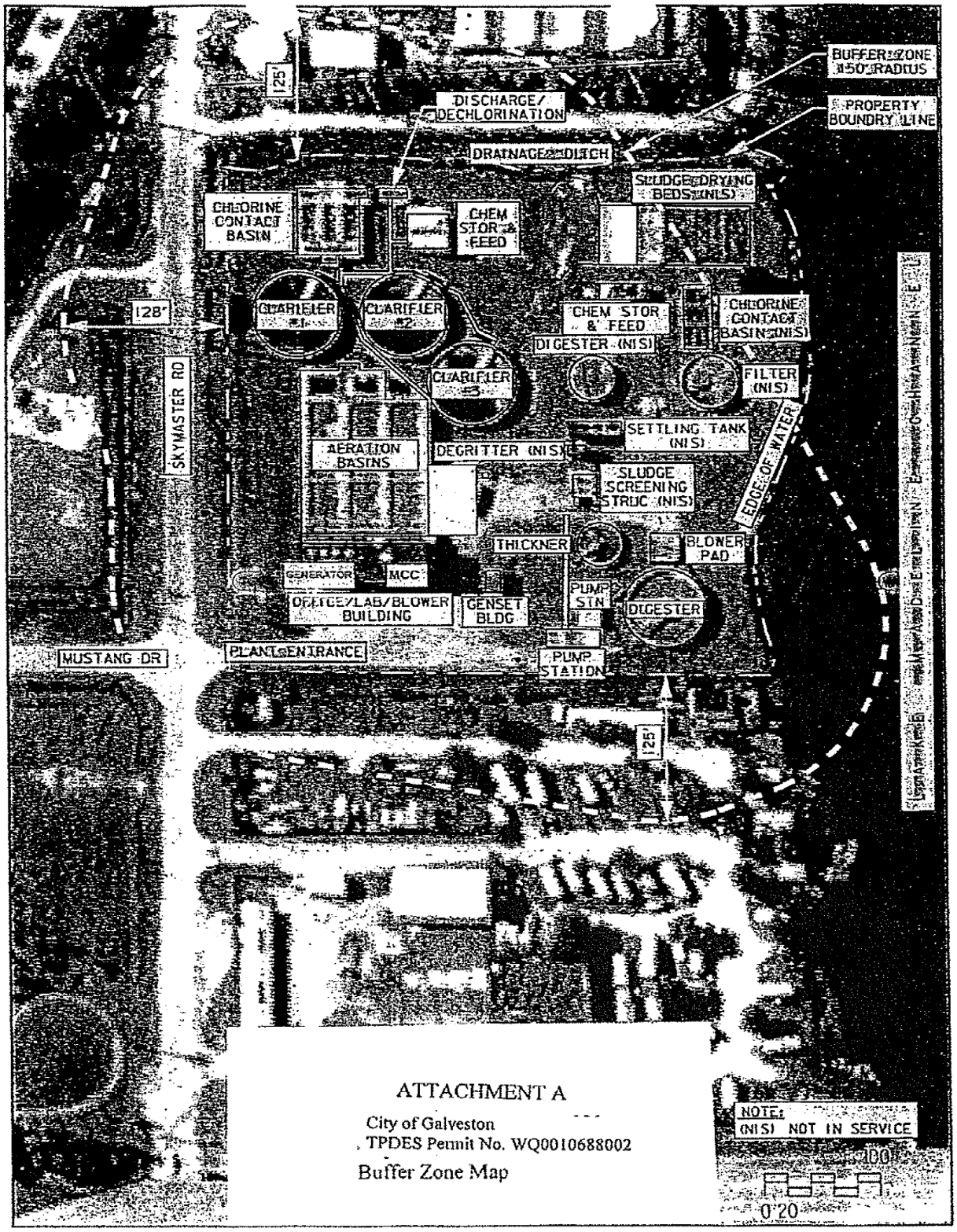
	Time	Date
Composite Sample Collected		
Test Initiated		

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


BUFFER ZONE 150' RADIUS
PROPERTY BOUNDRY LINE
125'
DISCHARGE/ DECHLORINATION
DRAINAGE DITCH
SLUDGE DRYING BEDS (NIS)
CHLORINE CONTACT BASIN
CHEM STOR & FEED
128'
CLARIFIER #1
CLARIFIER #2
CHEM STOR & FEED
CHLORINE CONTACT BASIN (NIS)
DIGESTER (NIS)
CLARIFIER #3
FILTER (NIS)
SKYMASTER RD
SETTLING TANK (NIS)
AERATION BASINS
DEGRITTER (NIS)
SLUDGE SCREENING STRUC (NIS)
EDGE OF WATER
THICKNER
BLOWER PAD
GENERATOR
MCC
OFFICE/LAB/BLOWER BUILDING
GENSET BLDG
PUMP STN
DIGESTER
MUSTANG DR
PLANT ENTRANCE
PUMP STATION
125'
ATTACHMENT A
City of Galveston
TPDES Permit No. WQ0010688002
Buffer Zone Map
NOTE:
(NIS) NOT IN SERVICE
100'
0'20

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010688002, EPA I.D. No. TX0027791, 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 Galveston
823 Rosenberg Street
Galveston, Texas 77550

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

Date: April 2, 2025

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 3.75 million gallons per day (MGD) in the Interim phase, and an annual average flow not to exceed 4.76 MGD in the Final phase. The existing wastewater treatment facility serves the portion of Galveston Island west of 59th Street.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 7618 Mustang Drive, in the City of Galveston, in Galveston County, Texas 77554.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.271229 N	94.847890 W

The treated effluent is discharged to a tidal canal that connects Madeline Lake to Offatts Bayou (Madeline Lake Channel), thence to Offatts Bayou, thence to West Bay in Segment No. 2424 of the Bays and Estuaries. The unclassified receiving water uses are high

aquatic life use for Tidal Canal (Madeline Lake Channel), and Offatts Bayou. The designated uses for Segment No. 2424 are primary contact recreation, high aquatic life use, and oyster waters.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Airport Wastewater Treatment Facility is an activated sludge process plant operated in the conventional mode. Treatment units in the Interim phase include two fine screens, two grit chambers, an aerated influent channel, three aeration basins, three final clarifiers, a sludge digester, a gravity sludge thickener, a chlorine contact chamber, and a dechlorination chamber. The same treatment units will be utilized for the Final phase. The facility is operating in the Interim phase.

Sludge generated from the treatment facility is hauled by a registered transporter to the City of Galveston Main Wastewater Treatment Facility, Permit No. WQ0010688001, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. 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

The following is a summary of the applicant's effluent monitoring data for the period from May 2022 through May 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and total copper. The average of Daily Average value for Enterococci in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	2.22
BOD_5, mg/l	3.1
TSS, mg/l	4.7
Total Copper, mg/l	0.007
Enterococci, CFU or MPN per 100 ml	14

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 3.75 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 7,812 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
BOD_5	20	626	30	45
TSS	20	626	30	45
Total Copper	0.0121	0.378	N/A	0.0256
DO (minimum)	2.0	N/A	N/A	N/A
Enterococci, CFU or MPN per 100 ml	35	N/A	N/A	104

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The 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	Two/week
TSS	Two/week
Total Copper	One/week
DO	Two/week
Enterococci	One/week

B. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.76 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 9,493 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
BOD_5	10	397	15	25
TSS	15	595	25	40
Total Copper	0.0121	0.48	N/A	0.0256
DO (minimum)	4.0	N/A	N/A	N/A
Enterococci, CFU or	35	N/A	N/A	104

MPN/100 ml

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The 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	Two/week
TSS	Two/week
Total Copper	One/week
DO	Two/week
Enterococci	One/week

C. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter to the City of Galveston Main Wastewater Treatment Facility, Permit No. WQ0010688001, to be digested, dewatered, and then disposed of with the bulk of the sludge from the plant accepting the sludge. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

D. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305 which references 40 CFR Part 403, General Pretreatment Regulations for Existing and New Sources of Pollution *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on **May 16, 1984,** and modified on **January 8, 1993, and on April 22, 2013 (Streamlining Rule).** The permittee is required, under the conditions of the approved pretreatment

program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of **January** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either: (1) a **WRITTEN CERTIFICATION** that a technical reassessment has been performed and that the evaluation demonstrates that the existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the TBLLs Reassessment Form No. TCEQ-20221], **OR** (2) a **WRITTEN NOTIFICATION** that a technical redevelopment of the current TBLLs, a draft legal authority, which incorporates such revisions, and any additional modifications to the approved Pretreatment Program, as required by 40 CFR Part 403 *[rev. 10/14/05]* and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of TPDES Permit No. WQ0010688002**.**

Substantial modifications will be approved in accordance with 40 CFR §403.18, and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

E. 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 6%, 8%, 11%, 15%, and 20%. The low-flow effluent concentration (critical dilution) is defined as 15% 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 mionths:

(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*).

F. BUFFER ZONE REQUIREMENTS

The permittee submitted evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3) (on file). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)

G. SUMMARY OF CHANGES FROM APPLICATION

None.

H. 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 to a tidal canal that connects Madeline Lake to Offatts Bayou (Madeline Lake Channel), thence to Offatts Bayou, thence to West Bay in Segment No. 2424 of the Bays and Estuaries. The unclassified receiving water uses are high aquatic life use for Tidal canal (Madeline Lake Channel), and Offatts Bayou. The designated uses for Segment No. 2424 are primary contact recreation high aquatic life use, and oyster waters. 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 Segment No. 2424 in Galveston County, Segment No. 2424 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. 2424 is currently listed on the State's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). The listing is for dioxin in edible tissue and PCBs in edible tissue in West Bay [Assessment Unit (AU) 2424_01] and the area adjacent to Lower Galveston Island AU 2424_02. Additionally, Lake Madeline (2424B) is listed for depressed dissolved oxygen, dioxin in edible tissue, and PCBs in edible tissue between Jones Street, Stewart Street and Pine Street, north of the seawall

on Galveston Island (AU 2424B_01). Offatts Bayou (2424D) is also listed for dioxin in edible tissue and PCBs in edible tissue through the entire water body (AUs 2424D_01, 2424D_02 and 2424D_03). This discharge is into the tidal canal connecting Lake Madeline and Offatts Bayou. This application is for renewal of an existing authorization and does not represent an increase in the permitted levels of oxygen demanding constituents to Lake Madeline. This is a public domestic wastewater treatment facility. The facility does not receive industrial wastewater contributions, therefore the effluent from this facility should not contribute to the dioxin, and PCBs in edible tissue impairment of this segment.

One finalized Total Maximum Daily Load (TMDL) Project is available for this segment: *Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast Segments 2421, 2422, 2423, 2424, 2432, and 2439* (Project No. 74). In August 2008, the Texas Commission on Environmental Quality (TCEQ) adopted Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast. The EPA approved the TMDL on February 4, 2009. This document describes TMDLs for six segments in the Galveston Bay system along the Texas upper Gulf Coast near Houston and Galveston, where concentrations of bacteria exceed the criteria used to evaluate the attainment of the designated oyster waters use. The waste load allocations (WLAs) specified in the TMDL and subsequent updates are applicable to discharges in close proximity to the six segments covered by the TMDL. This facility is located in the area covered by the WLA requirements of the TMDL. The draft permit limits for Enterococci are consistent with the requirements of the TMDL.

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

(2) CONVENTIONAL PARAMETERS

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

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The existing limits are consistent with the approved WQMP.

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

(3) COASTAL MANAGEMENT PLAN

The 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 25 feet from the point where the discharge enters the tidal canal (Madeline Lake Channel). The aquatic life mixing zone for this discharge is defined as a radius of 100 feet from the point where the discharge enters the tidal canal (Madeline Lake Channel).

TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate dilutions at the edges of the ZID and aquatic life mixing zone for discharges into sections of bays, estuaries, and wide tidal rivers that are less than 400 feet wide. General assumptions used in the horizontal jet plume model are a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentages are calculated based on the permitted flow of 4.76 MGD:

Acute Effluent %:	60%	Chronic Effluent %:	15%

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 13,100 mg/l for hardness (as calcium carbonate), 13,400 mg/l chlorides, 7.9 standard units for pH, and 11 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 are 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. The total copper limitations in the existing permit were continued in the draft permit.

(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 25-foot radius from the point where the discharge enters the tidal canal (Madeline Lake Channel). TCEQ uses the

U.S. Environmental Protection Agency horizontal jet plume model to estimate dilution at the edge of the human health mixing zone for discharges into a bay, estuary, or wide tidal river or discharges into sections of bays, estuaries, or wide tidal rivers that are less than 400 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. Based on this analysis, the following critical effluent percentage is calculated based on the permitted flow of 4.76 MGD:

Human Health Effluent %: 8 %

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. The total copper limitations in the existing permit were continued in the draft permit.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 2424, 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 has performed twenty-two chronic tests, with zero demonstrations of significant toxicity (i.e., zero failures)

(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.

A reasonable potential (RP) 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 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 the permittee may be eligible for the testing frequency reduction after one year of quarterly testing.

(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 lethality (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. WQ0010688002 issued on February 11, 2020.

B. APPLICATION

Application received on June 17, 2024, and additional information received on July 2, 2024, and April 3, 2025.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

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

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast Segment 2421, 2422, 2423, 2424, 2432, and 2439 (TMDL Project No. 74).

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 Galveston
TPDES Permit No:	WQ0010688002
Outfall No:	001
Prepared by:	Abdur Rahim
Date:	March 20, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	A tidal canal (Madeline Lake Channel)
Segment No:	2424
TSS (mg/L):	11
Effluent Flow for Aquatic Life (MGD)	4.76
% Effluent for Chronic Aquatic Life (Mixing Zone):	15
% Effluent for Acute Aquatic Life (ZID):	60
Oyster Waters?	**No**
Effluent Flow for Human Health (MGD):	4.76
% Effluent for Human Health:	8

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	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	12594.97	0.878		1.00	Assumed
Lead	6.06	-0.85	149560.26	0.378		1.00	Assumed
Mercury	N/A	N/A	N/A	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	122848.37	0.425		1.00	Assumed
Zinc	5.36	-0.52	65837.87	0.580		1.00	Assumed

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	2.17	N/A	0.693	N/A	1.01	2.15
Aluminum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	149	78	248	520	79.5	317	116	247
Cadmium	40.0	8.75	66.7	58.3	21.3	35.6	31.3	66.3
Carbaryl	613	N/A	1022	N/A	327	N/A	480	1016
Chlordane	0.09	0.004	0.150	0.0267	0.0480	0.0163	0.0239	0.0505
Chlorpyrifos	0.011	0.006	0.0183	0.0400	0.00587	0.0244	0.00862	0.0182
Chromium (trivalent)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (hexavalent)	1090	49.6	1817	331	581	202	296	627
Copper	13.5	3.6	25.6	27.3	8.20	16.7	12.0	25.4
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	9.33	37.3	2.99	22.8	4.39	9.28
4,4'-DDT	0.13	0.001	0.217	0.00667	0.0693	0.00407	0.00597	0.0126
Demeton	N/A	0.1	N/A	0.667	N/A	0.407	0.597	1.26
Diazinon	0.819	0.819	1.37	5.46	0.437	3.33	0.642	1.35
Dicofol [Kelthane]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	0.71	0.002	1.18	0.0133	0.379	0.00813	0.0119	0.0252
Diuron	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I (*alpha*)	0.034	0.009	0.0567	0.0600	0.0181	0.0366	0.0266	0.0563
Endosulfan II (*beta*)	0.034	0.009	0.0567	0.0600	0.0181	0.0366	0.0266	0.0563
Endosulfan sulfate	0.034	0.009	0.0567	0.0600	0.0181	0.0366	0.0266	0.0563
Endrin	0.037	0.002	0.0617	0.0133	0.0197	0.00813	0.0119	0.0252
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0667	N/A	0.0407	0.0597	0.126
Heptachlor	0.053	0.004	0.0883	0.0267	0.0283	0.0163	0.0239	0.0505
Hexachlorocyclohexane (*gamma*) [Lindane]	0.16	N/A	0.267	N/A	0.0853	N/A	0.125	0.265
Lead	133	5.3	586	93.5	188	57.0	83.8	177
Malathion	N/A	0.01	N/A	0.0667	N/A	0.0407	0.0597	0.126
Mercury	2.1	1.1	3.50	7.33	1.12	4.47	1.64	3.48
Methoxychlor	N/A	0.03	N/A	0.200	N/A	0.122	0.179	0.379
Mirex	N/A	0.001	N/A	0.00667	N/A	0.00407	0.00597	0.0126
Nickel	118	13.1	197	87.3	62.9	53.3	78.3	165
Nonylphenol	7	1.7	11.7	11.3	3.73	6.91	5.48	11.6
Parathion (ethyl)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentachlorophenol	15.1	9.6	25.2	64.0	8.05	39.0	11.8	25.0
Phenanthrene	7.7	4.6	12.8	30.7	4.11	18.7	6.03	12.7
Polychlorinated Biphenyls [PCBs]	10	0.03	16.7	0.200	5.33	0.122	0.179	0.379
Selenium	564	136	940	907	301	553	442	935
Silver	2	N/A	7.84	N/A	2.51	N/A	3.68	7.80
Toxaphene	0.21	0.0002	0.350	0.00133	0.112	0.00081 3	0.00119	0.0025 2
Tributyltin [TBT]	0.24	0.0074	0.400	0.0493	0.128	0.0301	0.0442	0.0935
2,4,5 Trichlorophenol	259	12	432	80.0	138	48.8	71.7	151
Zinc	92.7	84.2	266	968	85.2	590	125	265

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	1438	1337	1965	4157
Aldrin	1.147E-05	0.000143	0.000133	0.000196	0.000414
Anthracene	1317	16463	15310	22505	47614
Antimony	1071	13388	12450	18302	38720
Arsenic	N/A	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A	N/A
Benzene	581	7263	6754	9928	21005

Benzidine	0.107	1.34	1.24	1.82	3.86
Benzo(*a*)anthracene	0.025	0.313	0.291	0.427	0.903
Benzo(*a*)pyrene	0.0025	0.0313	0.0291	0.0427	0.0903
Bis(chloromethyl)ether	0.2745	3.43	3.19	4.69	9.92
Bis(2-chloroethyl)ether	42.83	535	498	731	1548
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.55	94.4	87.8	129	272
Bromodichloromethane [Dichlorobromomethane]	275	3438	3197	4699	9942
Bromoform [Tribromomethane]	1060	13250	12323	18114	38322
Cadmium	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	46	575	535	786	1663
Chlordane	0.0025	0.0313	0.0291	0.0427	0.0903
Chlorobenzene	2737	34213	31818	46771	98952
Chlorodibromomethane [Dibromochloromethane]	183	2288	2127	3127	6616
Chloroform [Trichloromethane]	7697	96213	89478	131532	278275
Chromium (hexavalent)	502	6275	5836	8578	18149
Chrysene	2.52	31.5	29.3	43.0	91.1
Cresols [Methylphenols]	9301	116263	108124	158942	336266
Cyanide (free)	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.0250	0.0233	0.0341	0.0723
4,4'-DDE	0.00013	0.00163	0.00151	0.00222	0.00469
4,4'-DDT	0.0004	0.00500	0.00465	0.00683	0.0144
2,4'-D	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	473	5913	5499	8082	17100
1,2-Dibromoethane [Ethylene Dibromide]	4.24	53.0	49.3	72.4	153
m-Dichlorobenzene [1,3-Dichlorobenzene]	595	7438	6917	10167	21511
o-Dichlorobenzene [1,2-Dichlorobenzene]	3299	41238	38351	56375	119271
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	2.24	28.0	26.0	38.2	80.9
1,2-Dichloroethane	364	4550	4232	6220	13159
1,1-Dichloroethylene [1,1-Dichloroethene]	55114	688925	640700	941829	1992577
Dichloromethane [Methylene Chloride]	13333	166663	154996	227844	482037
1,2-Dichloropropane	259	3238	3011	4425	9363
1,3-Dichloropropene [1,3-Dichloropropylene]	119	1488	1383	2033	4302
Dicofol [Kelthane]	0.30	3.75	3.49	5.12	10.8
Dieldrin	2.0E-05	0.000250	0.000233	0.000341	0.000723
2,4-Dimethylphenol	8436	105450	98069	144160	304993
Di-*n*-Butyl Phthalate	92.4	1155	1074	1579	3340
Dioxins/Furans [TCDD Equivalents]	7.97E-08	9.96E-07	9.27E-07	0.0000014	0.0000029
Endrin	0.02	0.250	0.233	0.341	0.723
Epichlorohydrin	2013	25163	23401	34399	72777
Ethylbenzene	1867	23338	21704	31904	67499
Ethylene Glycol	1.68E+07	210000000	195300000	287091000	607383000
Fluoride	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.0001	0.00125	0.00116	0.00170	0.00361
Heptachlor Epoxide	0.00029	0.00363	0.00337	0.00495	0.0104
Hexachlorobenzene	0.00068	0.00850	0.00791	0.0116	0.0245
Hexachlorobutadiene	0.22	2.75	2.56	3.75	7.95
Hexachlorocyclohexane (*alpha*)	0.0084	0.105	0.0977	0.143	0.303
Hexachlorocyclohexane (*beta*)	0.26	3.25	3.02	4.44	9.39
Hexachlorocyclohexane (*gamma*) [Lindane]	0.341	4.26	3.96	5.82	12.3
Hexachlorocyclopentadiene	11.6	145	135	198	419
Hexachloroethane	2.33	29.1	27.1	39.8	84.2
Hexachlorophene	2.90	36.3	33.7	49.5	104
4,4'-Isopropylidenediphenol [Bisphenol A]	15982	199775	185791	273112	577809
Lead	3.83	127	118	173	366
Mercury	0.0250	0.313	0.291	0.427	0.903
Methoxychlor	3.0	37.5	34.9	51.2	108
Methyl Ethyl Ketone	9.92E+05	12400000	11532000	16952040	35864520
Methyl *tert*-butyl ether [MTBE]	10482	131025	121853	179124	378963

Nickel	1140	14250	13253	19481	41215
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	1873	23413	21774	32007	67715
N-Nitrosodiethylamine	2.1	26.3	24.4	35.8	75.9
N-Nitroso-di-*n*-Butylamine	4.2	52.5	48.8	71.7	151
Pentachlorobenzene	0.355	4.44	4.13	6.06	12.8
Pentachlorophenol	0.29	3.63	3.37	4.95	10.4
Polychlorinated Biphenyls [PCBs]	6.4E-04	0.00800	0.00744	0.0109	0.0231
Pyridine	947	11838	11009	16183	34237
Selenium	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.24	3.00	2.79	4.10	8.67
1,1,2,2-Tetrachloroethane	26.35	329	306	450	952
Tetrachloroethylene [Tetrachloroethylene]	280	3500	3255	4784	10123
Thallium	0.23	2.88	2.67	3.93	8.31
Toluene	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.138	0.128	0.187	0.397
2,4,5-TP [Silvex]	369	4613	4290	6305	13340
1,1,1-Trichloroethane	784354	9804425	9118115	13403629	28357338
1,1,2-Trichloroethane	166	2075	1930	2836	6001
Trichloroethylene [Trichloroethene]	71.9	899	836	1228	2599
2,4,5-Trichlorophenol	1867	23338	21704	31904	67499
TTHM [Sum of Total Trihalomethanes]	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	16.5	206	192	281	596

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	0.713	0.866
Aluminum	N/A	N/A
Arsenic	81.7	99.2
Cadmium	21.9	26.6
Carbaryl	336	408
Chlordane	0.0167	0.0203
Chlorpyrifos	0.00603	0.00733
Chromium (trivalent)	N/A	N/A
Chromium (hexavalent)	207	252
Copper	8.43	10.2
Copper (oyster waters)	N/A	N/A
Cyanide (free)	3.07	3.73
4,4'-DDT	0.00418	0.00508
Demeton	0.418	0.508
Diazinon	0.449	0.545
Dicofol [Kelthane]	N/A	N/A
Dieldrin	0.00836	0.0101
Diuron	N/A	N/A
Endosulfan I (*alpha*)	0.0186	0.0226
Endosulfan II (*beta*)	0.0186	0.0226
Endosulfan sulfate	0.0186	0.0226
Endrin	0.00836	0.0101
Guthion [Azinphos Methyl]	0.0418	0.0508
Heptachlor	0.0167	0.0203
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0878	0.106
Lead	58.6	71.2
Malathion	0.0418	0.0508
Mercury	1.15	1.39
Methoxychlor	0.125	0.152
Mirex	0.00418	0.00508
Nickel	54.8	66.5

Nonylphenol	3.84	4.66
Parathion (ethyl)	N/A	N/A
Pentachlorophenol	8.28	10.0
Phenanthrene	4.22	5.13
Polychlorinated Biphenyls [PCBs]	0.125	0.152
Selenium	309	375
Silver	2.58	3.13
Toxaphene	0.000836	0.00101
Tributyltin [TBT]	0.0309	0.0376
2,4,5 Trichlorophenol	50.2	60.9
Zinc	87.7	106

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	1375	1670
Aldrin	0.000137	0.000166
Anthracene	15754	19130
Antimony	12811	15556
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	6949	8439
Benzidine	1.27	1.55
Benzo(*a*)anthracene	0.299	0.363
Benzo(*a*)pyrene	0.0299	0.0363
Bis(chloromethyl)ether	3.28	3.98
Bis(2-chloroethyl)ether	512	622
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	90.3	109
Bromodichloromethane [Dichlorobromomethane]	3289	3994
Bromoform [Tribromomethane]	12679	15396
Cadmium	N/A	N/A
Carbon Tetrachloride	550	668
Chlordane	0.0299	0.0363
Chlorobenzene	32740	39756
Chlorodibromomethane [Dibromochloromethane]	2189	2658
Chloroform [Trichloromethane]	92072	111802
Chromium (hexavalent)	6004	7291
Chrysene	30.1	36.6
Cresols [Methylphenols]	111259	135101
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0239	0.0290
4,4'-DDE	0.00155	0.00188
4,4'-DDT	0.00478	0.00581
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	5658	6870
1,2-Dibromoethane [Ethylene Dibromide]	50.7	61.5
m-Dichlorobenzene [1,3-Dichlorobenzene]	7117	8642
o-Dichlorobenzene [1,2-Dichlorobenzene]	39463	47919
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	26.7	32.5
1,2-Dichloroethane	4354	5287
1,1-Dichloroethylene [1,1-Dichloroethene]	659280	800554
Dichloromethane [Methylene Chloride]	159491	193667
1,2-Dichloropropane	3098	3762
1,3-Dichloropropene [1,3-Dichloropropylene]	1423	1728
Dicofol [Kelthane]	3.58	4.35
Dieldrin	0.000239	0.000290
2,4-Dimethylphenol	100912	122536
Di-*n*-Butyl Phthalate	1105	1342
Dioxins/Furans [TCDD Equivalents]	9.53E-07	0.0000012

Endrin	0.239	0.290
Epichlorohydrin	24079	29239
Ethylbenzene	22333	27118
Ethylene Glycol	200963700	244027350
Fluoride	N/A	N/A
Heptachlor	0.00119	0.00145
Heptachlor Epoxide	0.00346	0.00421
Hexachlorobenzene	0.00813	0.00987
Hexachlorobutadiene	2.63	3.19
Hexachlorocyclohexane (*alpha*)	0.100	0.122
Hexachlorocyclohexane (*beta*)	3.11	3.77
Hexachlorocyclohexane (*gamma*) [Lindane]	4.07	4.95
Hexachlorocyclopentadiene	138	168
Hexachloroethane	27.8	33.8
Hexachlorophene	34.6	42.1
4,4'-Isopropylidenediphenol [Bisphenol A]	191178	232145
Lead	121	147
Mercury	0.299	0.363
Methoxychlor	35.8	43.5
Methyl Ethyl Ketone	11866428	14409234
Methyl *tert*-butyl ether [MTBE]	125386	152255
Nickel	13636	16558
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	22405	27206
N-Nitrosodiethylamine	25.1	30.5
N-Nitroso-di-*n*-Butylamine	50.2	61.0
Pentachlorobenzene	4.24	5.15
Pentachlorophenol	3.46	4.21
Polychlorinated Biphenyls [PCBs]	0.00765	0.00929
Pyridine	11328	13755
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	2.87	3.48
1,1,2,2-Tetrachloroethane	315	382
Tetrachloroethylene [Tetrachloroethylene]	3349	4067
Thallium	2.75	3.34
Toluene	N/A	N/A
Toxaphene	0.131	0.159
2,4,5-TP [Silvex]	4414	5359
1,1,1-Trichloroethane	9382540	11393085
1,1,2-Trichloroethane	1985	2411
Trichloroethylene [Trichloroethene]	860	1044
2,4,5-Trichlorophenol	22333	27118
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	197	239

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Galveston

PERMIT NUMBER (If new, leave blank): WQ00 10688002

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	☐	☒			

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JUN 17 2024
Water Quality Applications Team

ORIGINAL

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Administrative Report

1.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☐	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☒

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: 2,015.00

Name Printed on Check: T.C.E.Q

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: N/A

f. For existing permits:

Permit Number: WQ00 10688002

EPA I.D. (TPDES only): TX 0027791

Expiration Date: 2/11/2025

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

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

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

City of Galveston

(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: 600241376

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*.

Credential: Mr. Trino Pedraza, Director of Public Works

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?

Click to enter text.

(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: Click to enter text.

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: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mrs. Last Name, First Name: Diaz, Cynthia

Title: Wastewater Superintendent Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3785 E-mail Address: cdiaz@galvestontx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Lirette Benjamin

Title: Compliance Manager Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3630 E-mail Address: blirette@galvestontx.gov

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mrs. Last Name, First Name: Diaz, Cynthia

Title: Wastewater Superintendent Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3785 E-mail Address: cdiaz@galvestontx.gov

B. Prefix: Mr. Last Name, First Name: Lirette, Benjamin

Title: Compliance Manager Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3630 E-mail Address: blirette@galvestontx.gov

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Pedraza, Trino

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3630 E-mail Address: tpedraza@galvestontx.gov

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

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

Prefix: Mrs. Last Name, First Name: Diaz, Cynthia

Title: Wastewater Superintendent Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-789-4221 E-mail Address: cdiaz@galvestontx.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mrs. Last Name, First Name: Diaz, Cynthia

Title: Wastewater Superintendent Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3785 E-mail Address: cdiaz@galvestontx.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 permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Pedraza, Trino

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3630 E-mail Address: tpedraza@galvestontx.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: Public Information Office

Physical Address of Building: 823 Rosenberg Street

City: Galveston County: Galveston

Contact (Last Name, First Name): Alvarez, Martha

Phone No.: 409-797-3630 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: Click to enter text.

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: Click to enter text.

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101614303

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):

Airport Wastewater Treatment Plant

C. Owner of treatment facility: City of Galveston

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

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

Prefix: Click to enter text. Last Name, First Name: City of Galveston

Title: Click to enter text. Credential: Click to enter text.

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-797-3630 E-mail Address: cityofgalveston.gov

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

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

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

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

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

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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:

Click to enter text.

City nearest the outfall(s): Galveston

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

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 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: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

Click to enter text.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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 to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click 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 to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: 10688002

Applicant: City of Galveston

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): Mr. Trino Pedraza

Signatory title: Director of Public Works

Signature: _____ Date: 5-30-24

(Use blue ink)

Subscribed and Sworn to before me by the said TRINO PEDRAZA

on this 30 day of MAY, 2024

My commission expires on the 10 day of JULY, 2024

_____

Notary Public

GALVESTON

County, Texas

[SEAL]

BRIAN OVEREEM
Notary Public, State of Texas
Comm. Expires 07-10-2024
Notary ID 132563215

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Click to enter text.

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: F

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

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

Full legal name (Last Name, First Name, Middle Initial): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

Phone Number: Click to enter text. Fax Number: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

City of Galveston

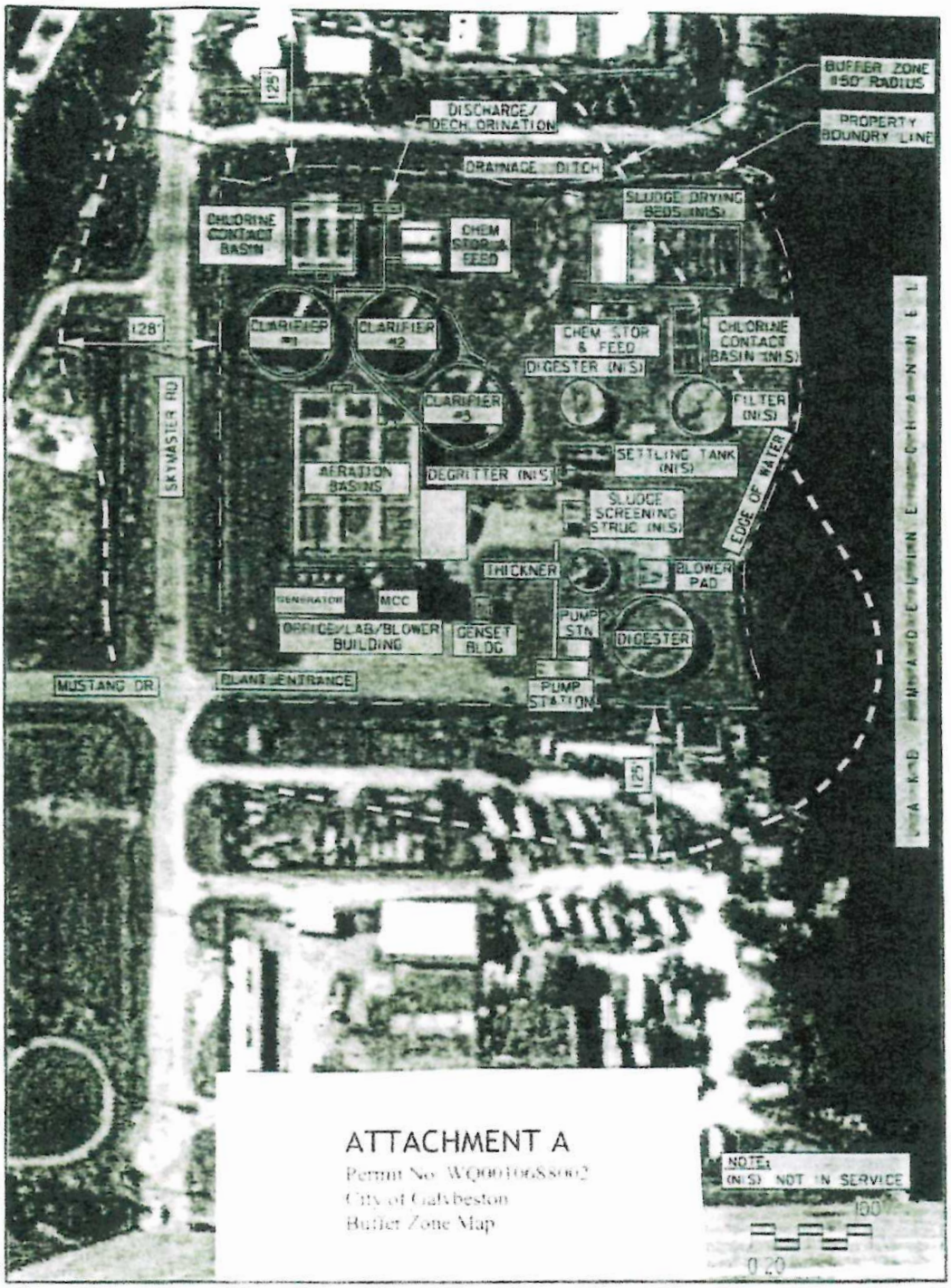
Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment A

Buffer Zone



ATTACHMENT A

Permit No. WQ0010683002
City of Galveston
Buffer Zone Map

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment B

Design Calculations

CITY OF GALVESTON
AIRPORT WASTEWATER TREATMENT PLANT
TPDES 10688-002

PERMIT RENEWAL APPLICATION

SUPPLEMENTAL REPORT

1.0 Introduction

The report was prepared to provide supporting information for the TPDES wastewater permit application for the City of Galveston s Airport Wastewater Treatment Facility The application is for renewal of the current permit

2.0 Treatment Processes

The treatment process descriptions are taken from the 2006 TPDES application.

2.1 Current (2006) Configuration

A flow diagram of the current treatment process configuration as it existed in 2006 is provided in the Attachments section. The current permitted flows are a monthly average of 3 75 million gallons per day (MGD) and a 2-hour peak average of 7 812 gallons per minute (GPM) or 11 25 MGD A description of the current treatment process follows

Raw sewage is received into the onsite lift station and is pumped to the aeration basin splitter channel This channel runs across the influent end of the three common wall aeration basins The channel also receives return activated sludge (RAS) The channel is aerated with single-drop coarse bubble diffusers

The conventional activated sludge process is carried out in the three aeration basins Aeration is by wideband coarse bubble diffusion. Level in the aeration basins is controlled by weirs The mixed liquor overflows the weirs of the three basins and flows through a common channel. This channel is directed to three drop boxes and then the mixed liquor flows to three circular bottom draw clarifiers These clarifiers have mechanical rakes

The clarified effluent is routed to a chlorination contact chamber The chlorination contact chamber consists of a single rapid mix chamber an inlet chamber that splits flow to three parallel serpentine channels, and a discharge chamber The discharge chamber is also used as the pump well The pumps which take feed from this well discharge to a holding pond at the municipal golf course prior to use in irrigation These same Pumps also provide the plant with non-potable water The treated effluent is also provided to Moody Botanical Gardens for beneficial reuse.

Water flows from the chlorination contact chamber to the discharge structure which also serves as a dechlorination unit Dechlorination is achieved by the addition of sulfur dioxide The effluent end of the dechlorination unit is the effluent sample point for the permit (Outfall 001

Sludge is wasted to the aerobic digester After digestion and thickening liquid sludge is transported by tank truck to the City's Main Wastewater Treatment Plant for further digestion and dewatering

Sizes and numbers of the current treatment units are provided in the following table

Current Treatment Units

Activated Sludge Conventional
Aerated Influent Channel
One channel divided [illegible] three [illegible] in series, each [illegible] 32.5 ft long x 10 ft wide x 15.6 ft deep, 2.19 ft FRBD
Aeration Basins
Three basins, each [illegible] 102 ft long x 32.5 ft wide x 15 [illegible] ft SWD, 2.5 ft FRBD
Secondary Clarification
Three [illegible] clarifiers with outboard launders and mechanical [illegible] each 65 ft DIA [illegible] x 12 [illegible] SWD 13.75 ft straight side, Stilling wellS [illegible] DIA
Disinfection
Chlorination
Rapid mix chamber [illegible] ft long x 6 ft wide x 1[illegible] ft SWD, 2.2 ft FRBD
Influent [illegible] 47.3 ft long x 6 ft wide x 1[illegible] ft SWD 2.2 ft FRBD Three parallel serpentine chambers 40 ft long x 15 ft wide x 1[illegible] ft SWD [illegible] FRBD. Each chamber has two baffle walls 38 ft long constructed of 8"x8"x16" concrete blocks
Effluent channel/pump well 47.3 ft long x 6 ft wide x 10.67 ft SWD, 2.83 ft FRBD
Dechlorination
Sludge Treatment
Aerobic Digester [illegible] one [illegible] tank 67 ft DIA x [illegible] ft SWD 1.2 ft FRBD
Sludge Thickener One circular thickener 35 ft DIA x 1[illegible] ft SWD, 1.[illegible] ft FRBD

2.2 Headworks

A flow diagram of the treatment system including this process change is provided in the Attachments section. This headworks consists of two fine screening units and two hydraulically induced degritting units. Each fine screen has a capacity of 14.8 MGD. Flow is routed through one screen with the other fine screen providing redundancy. The hydraulically induced grit chambers each have a capacity of 7.4 MGD. To provide proper operation over the entire flow range, flow up to 7.4 MGD is directed through one of the two Degritters. Flow above 7.4 MGD is routed to
The second Degritter. Provisions have been provided for bypassing the Degritter should the need arise. Currently all flow to the plant is routed through the onsite lift station.

City of Galveston

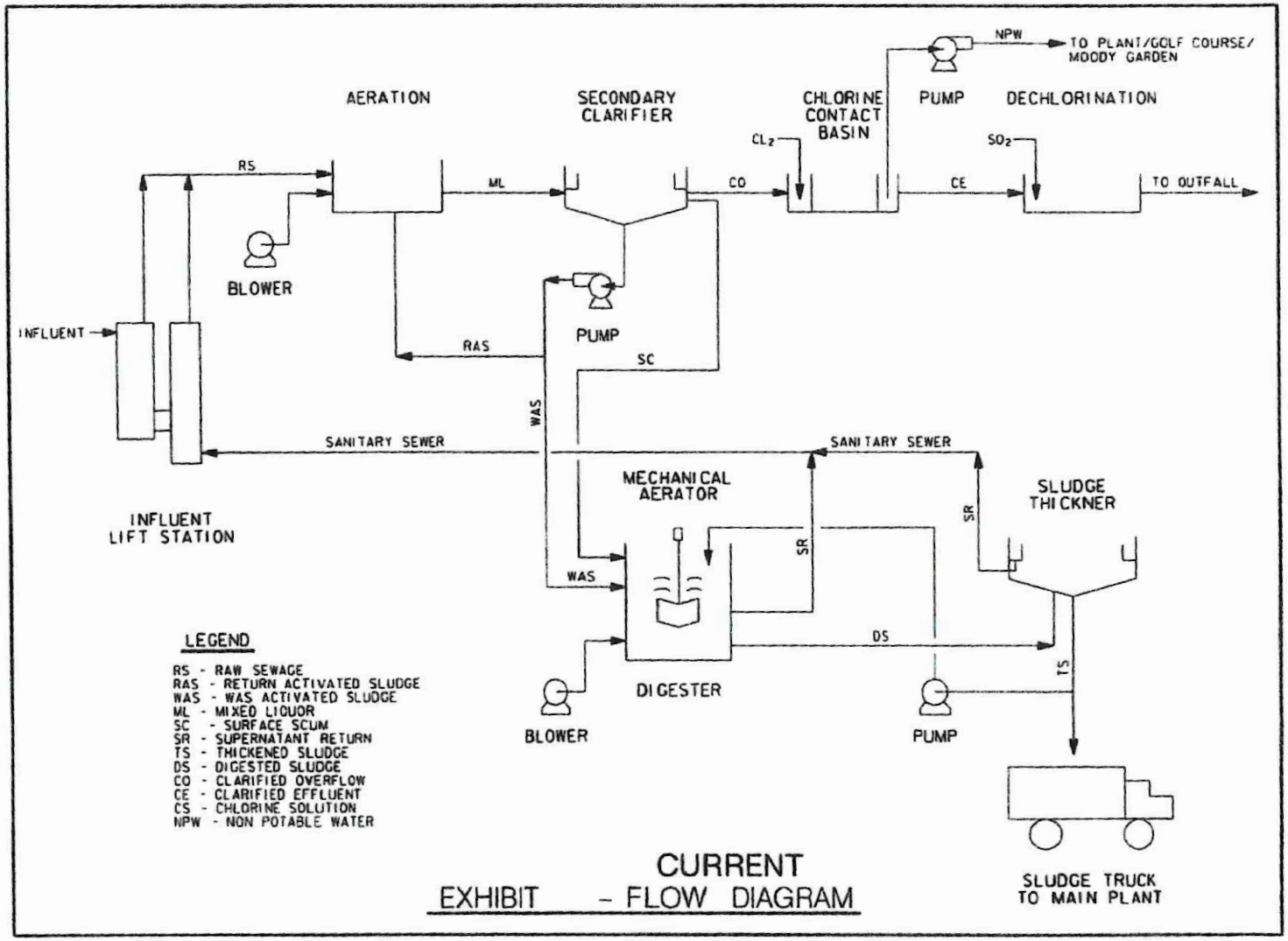
Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment C

Flow Diagram



CURRENT

EXHIBIT - FLOW DIAGRAM

City of Galveston

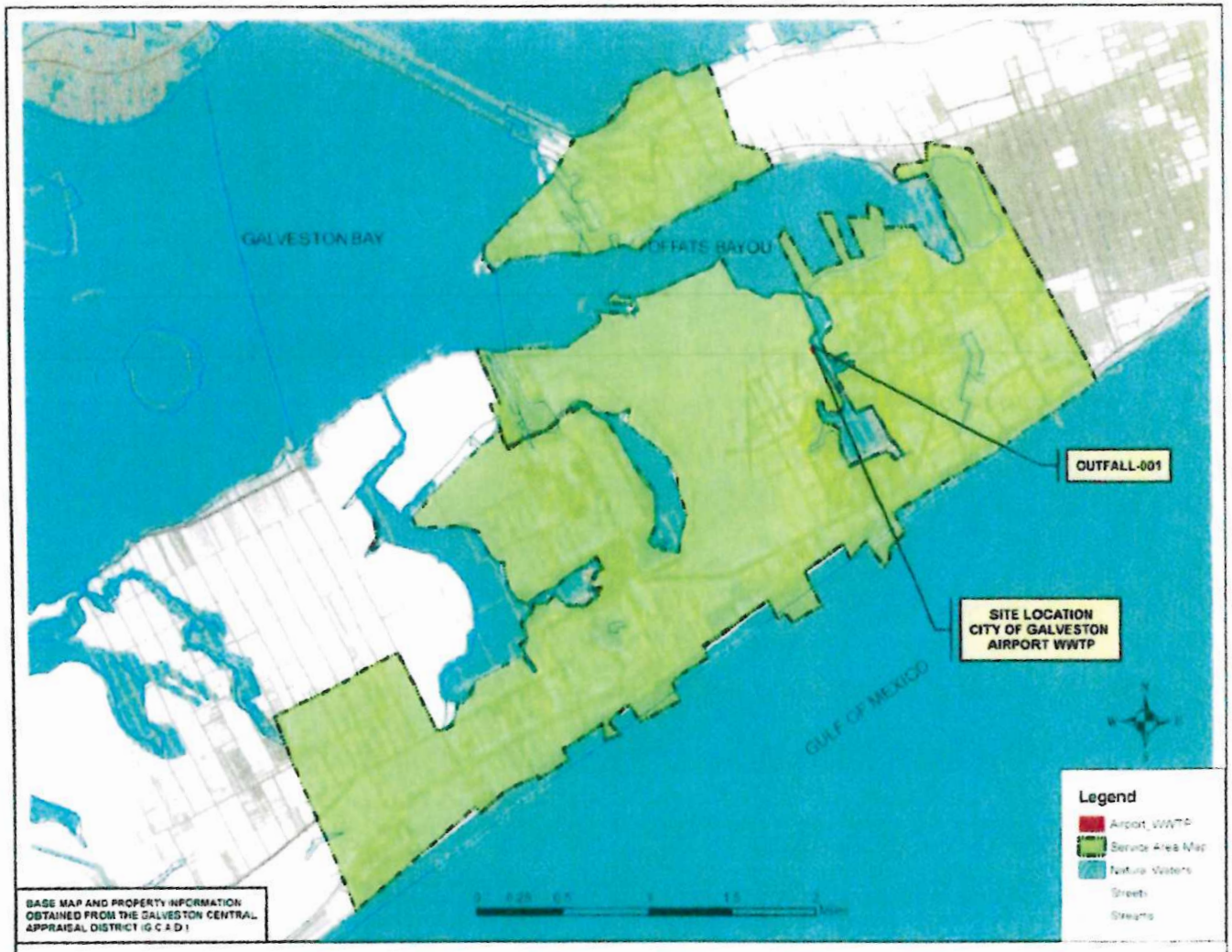
Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment D

Site Drawing



SITE DRAWING FOR DOMESTIC TECHNICAL REPORT 1.0, SECTION 11
CITY OF GALVESTON, AIRPORT WASTE WATER TREATMENT PLANT
EFFLUENT DISCHARGE PERMIT, GALVESTON, TEXAS

DATE: 12-28-2006

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment E

Original Photographs


Outfall
Sky Master Rd
Sulfur Dioxide
Chlorine Sulfur Dioxide Feed
Chlorine Tank Storage
Chlorine Contact Basin
Clarifier 2
Clarifier 3
Clarifier 1
Aeration Basin
Aeration Basin
Thickener
Digester
Office
Lift Station/Headworks
© 2015 Google
Google
Date: 5/15/2014

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment F

SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: City of Galveston

   Permit No. WQ00 10688-002 EPA ID No. TX 0027791

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

   7618 Mustang Drive, Galveston, Texas, Galveston County

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

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

First and Last Name: Cynthia Diaz

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

Title: Wastewater Superintendent

Mailing Address: 823 Rosenberg Street

City, State, Zip Code: Galveston, Texas, 77550

Phone No.: 409-789-4221 Ext.: Fax No.:

E-mail Address: cdiaz@galvestontx.gov

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

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

To a Tidal canal which connects Madeline Bay to Offats Bayou (Madeline Lake Channel) Then to West Bay in Segment 2424 of the Bays & Estuaries.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Typical Wastewater Treatment Plant site with units and support Buildings.

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

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

N/A

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

N/A

City of Galveston

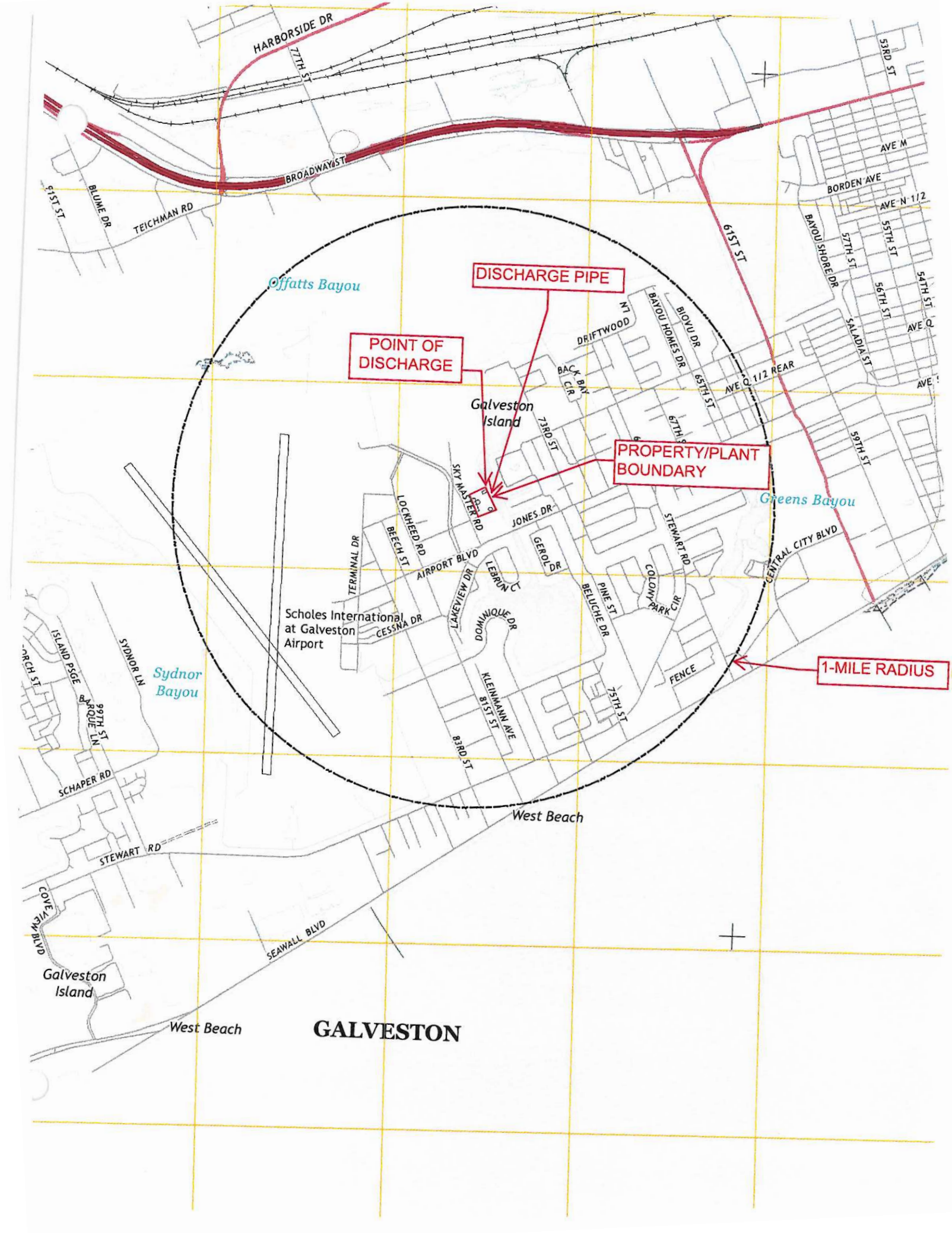
Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment G

USGS Map


DISCHARGE PIPE
POINT OF DISCHARGE
PROPERTY/PLANT BOUNDARY
1-MILE RADIUS
Offatts Bayou
Galveston Island
Greens Bayou
Sydnor Bayou
Scholes International at Galveston Airport
West Beach
GALVESTON
HARBORSIDE DR
77TH ST
BROADWAY ST
61ST ST
BLUME DR
TEICHMAN RD
53RD ST
AVE M
BORDEN AVE
AVE N 1/2
BAYOU SHORE DR
57TH ST
55TH ST
56TH ST
54TH ST
AVE Q
SALADIA ST
AVE Q 1/2 REAR
65TH ST
67TH ST
59TH ST
DRIFTWOOD
BACK BAY CIR
BAYOU HOMES DR
BIOVU DR
73RD ST
SKY MASTER RD
JONES DR
LOCKHEED RD
BEECH ST
TERMINAL DR
AIRPORT BLVD
LAKEVIEW DR
LEBRUN CT
GEROL DR
STEWART RD
COLONY PARK CIR
PINE ST
BELLICHE DR
CENTRAL CITY BLVD
CESSNA DR
DOMINIQUE DR
KLEINMANN AVE
81ST ST
83RD ST
75TH ST
FENCE
ISLAND PSGE
99TH ST
BRIQUE LN
SYDNOR LN
SCHAPER RD
STEWART RD
COVE VIEW BLVD
SEAWALL BLVD

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Attachment H

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 600241376		RN 101614303

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 Galveston

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
		74-6000904	

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 ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address: 823 Rosenberg Street

City	Galveston	State	TX	ZIP	77550	ZIP + 4	7755

16. Country Mailing Information (if outside USA)	17. E-Mail Address (if applicable)
	cityofgalveston.gov

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

(409) 789-4221		( ) -

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.)*

Airport Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	7618 Mustang Drive							
	City	Galveston	**State**	TX	**ZIP**	77551	**ZIP + 4**	
24. County								

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:	29-16'-13.88'N		**28. Longitude (W) In Decimal:**	-94.50'-53.59'W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	16	13.8	-94	.50	59

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)

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

Wastewater treatment

34. Mailing Address:	**823 Rosenberg Street**							
	City	Galveston	**State**	TX	**ZIP**	77550	**ZIP + 4**	
35. E-Mail Address:	cityofgalveston.gov							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(409) 789-4221		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Cynthia Diaz	41. Title:	Wastewater Superintendent

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(409) 789-4221		( ) -	

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 Galveston	Job Title:	Director of Public Works
Name *(In Print)*:	Trino Pedraza	Phone:	(409) 797- 3630
Signature:		Date:	5-30-24

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Technical Report 1.0

<

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 3.75

2-Hr Peak Flow (MGD): 11.25

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

Provide the startup date of the facility: Existing

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

See Treatment Process in Attachments

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Treatment Process in Attachments		

C. Process Flow Diagram

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

Attachment: See Diagram attachment in Supplement report

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

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

- Latitude: 29 16' 16' N
- Longitude: -94 50' 52' W

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

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

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

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

Attachment: Click to enter text.

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

West of 59th Street, South of the English Bayou to Spanish Grant on 10 mile road, and west of 71st street on Broadway to the Causeway.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Lift Station 17 - 33	City of Galveston	Publicly Owned	10,000
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☐ Yes ☒ No

If yes, provide the date(s) of approval for each phase: Click to enter text.

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.**

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

See attachment

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.*

Click to enter text.

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 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 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click 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 512-239-2335.

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

Click 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 Click to enter text. or TXRNE Click 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:

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2.0	<2.0	1	Grab	5/6/2024
Total Suspended Solids, mg/l	7.8	7.8	1	Grab	5/06/2024
Ammonia Nitrogen, mg/l	<0.1	<0.1	1	Grab	5/06/2024
Nitrate Nitrogen, mg/l	5.67	5.67	1	Grab	5/6/2024

Total Kjeldahl Nitrogen, mg/l	2.1	2.1	1	Grab	5/06/2024
Sulfate, mg/l	253	253	1	Grab	5/06/2024
Chloride, mg/l	1680	1680	1	Grab	5/06/2024
Total Phosphorus, mg/l	2.75	2.75	1	Grab	5/06/2024
pH, standard units	7.1	7.1	1	Grab	5/06/2024
Dissolved Oxygen*, mg/l	6.8	6.8	1	Grab	5/06/2026
Chlorine Residual, mg/l	2.4	2.4	1	Grab	5/06/2024
E.coli (CFU/100ml) freshwater	24	24	1	Grab	5/06/2024
Entercocci (CFU/100ml) saltwater	NA	NA	NA		
Total Dissolved Solids, mg/l	3800	3800	1	Grab	5/06/2024
Electrical Conductivity, µmohs/cm, †	6502	6502	1	Grab	5/06/2024
Oil & Grease, mg/l	<5.4	<5.4	1	Grab	5/06/2024
Alkalinity ($CaCO_3$)*, mg/l	140	140	1	Grab	5/06/2024

*TPDES permits only
†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	7.8	7.8	1	Grab	5/06/2024
Total Dissolved Solids, mg/l	3800	3800	1	Grab	5/06/2024
pH, standard units	7.1	7.1	1	Grab	5/06/2024
Fluoride, mg/l	144	144	1	Comp	5/06/2024
Aluminum, mg/l	40.7	40.7	1	Comp	5/06/2024
Alkalinity ($CaCO_3$), mg/l	140	140	1	Grab	5/06/2024

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Cynthia Diaz

Facility Operator's License Classification and Level: A

Facility Operator's License Number: WW0035005

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☒ Design flow>= 1 MGD

- ☒ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user - land application (onsite)
- ☐ Biosolids end user - surface disposal (onsite)
- ☐ Biosolids end user - incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Transport to other facility

D. Disposal site

Disposal site name: Main Wastewater Plant

TCEQ permit or registration number: 21945

County where disposal site is located: Galveston

E. Transportation method

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

Name of the hauler: Christopher Gilbert

Hauler registration number: 21945

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click 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 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 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 to enter text.

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click 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 to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions

A. Additional authorizations

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

☒ Yes ☐ No

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

R 10688-002 Reuse Permit

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:

Click to enter text.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Trino Pedraza

Title: Director of Public Works

Signature: _____

Date: 5-30-24

City of Galveston

Airport Wastewater Treatment Facility

TPDES 10688-002

Permit Renewal Application 2024

Technical Worksheet

2.0

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☒ Yes ☐ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: 200

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).

Click 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).

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

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

☒ Yes ☐ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Madeline Bay

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☒ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Lake Madeline, Offats Bayou, Teichman Channel, West Bay

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.

The Effluent first enters a Tidal Canal, which is connected to Madeline Bay then to Offats Bayou, flows into Offats Bayou and then to West Bay.

E. Normal dry weather characteristics

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

Generally calm depending on tide.

Date and time of observation: 5/29/2024/ 9:50AM

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☒ Composite ☒

Date and time sample(s) collected: 5/06/2024

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<5.0	<5.0	Grab	50
Aldrin	0.0184	0.0184	Comp	0.01
Aluminum	40.7	40.7	Comp	2.5
Anthracene	<1.04	<1.04	Comp	10
Antimony	<2.00	<2.00	Comp	5
Arsenic	2.10	2.10	Comp	0.5
Barium	<0.500	<0.500	Comp	3
Benzene	<10.0	<10.0	Comp	10
Benzidine	<20.7	<20.7	Grab	50
Benzo(a)anthracene	<1.04	<1.04	Comp	5
Benzo(a)pyrene	<1.04	<1.04	Comp	5
Bis(2-chloroethyl)ether	<1.04	<1.04	Comp	10
Bis(2-ethylhexyl)phthalate	0.944	0.944	Comp	10
Bromodichloromethane	<10.0	<10.0	Grab	10
Bromoform	156	156	Grab	10
Cadmium	<1.00	<1.00	Comp	1
Carbon Tetrachloride	<2.00	<2.00	Grab	2
Carbaryl	<2.63	<2.63	Comp	5
Chlordane*	<0.0105	<0.0105	Comp	0.2
Chlorobenzene	<10.0	<10.0	Grab	10
Chlorodibromomethane	<10.0	<10.0	Grab	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<10.0	<10.0	1	10
Chlorpyrifos	<0.050	<0.050	1	0.05
Chromium (Total)	<1.00	<1.0	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	9.39	9.39	1	2
Chrysene	<1.04	<1.04	1	5
p-Chloro-m-Cresol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.30	<8.30	1	50
p-Cresol	<2.49	<2.49	1	10
Cyanide **(*2)**	10.2	10.2	1	10
4,4'- DDD	<0.0105	<0.0105	1	0.1
4,4'- DDE	<0.0105	<0.0105	1	0.1
4,4'- DDT	<0.0105	<0.0105	1	0.02
2,4-D	<0.520	<0.520	1	0.7
Demeton (O and S)	<0.0526	<0.0526	1	0.20
Diazinon	<0.0526	<0.0526	1	0.5/0.1
1,2-Dibromoethane	<10.0	<10.0	1	10
m-Dichlorobenzene	<1.04	<1.04	1	10
o-Dichlorobenzene	<1.04	<1.04	1	10
p-Dichlorobenzene	<1.04	<1.04		10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10
Dichloromethane	<10.0	<10.0	1	20
1,2-Dichloropropane	<10.0	<10.0	1	10
1,3-Dichloropropene	<10.0	<10.0		10
Dicofol	<1.05	<1.05	1	1
Dieldrin	<0.0105	<0.0105	1	0.02
2,4-Dimethylphenol	<2.49	<2.49	1	10
Di-n-Butyl Phthalate	<7.78	<7.78	1	10
Diuron	2.07	2.07	1	0.09
Endosulfan I (alpha)	<0.010	<0.010	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.0105	<0.0105	1	0.02
Endosulfan Sulfate	<0.0105	<0.0105	1	0.1
Endrin	<0.0105	<0.0105	1	0.02
Ethylbenzene	<10.0	<10.0	1	10
Fluoride	144	144	1	500
Guthion	<0.0526	<0.0526	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclohexane (alpha)	<0.0105	<0.0105	1	0.05
Hexachlorocyclohexane (beta)	<0.0105	<0.0105	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0105	<0.0105	1	0.05
Hexachlorocyclopentadiene	<9.34	<9.34	1	10
Hexachloroethane	<1.04	<1.04	1	20
Hexachlorophene	<1.04	<1.04	1	10
Lead	<0.500	<0.500	1	0.5
Malathion	<0.0526	<0.0526	1	0.1
Mercury	0.000856	0.000856	1	0.005
Methoxychlor	<0.0105	<0.0105	1	2
Methyl Ethyl Ketone	<50.0	<50.0	1	50
Mirex	<0.0158	<0.0158	1	0.02
Nickel	<2.00	<2.00	1	2
Nitrate-Nitrogen	5.67	5.67	1	100
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodiethylamine	<1.04	<1.04	1	20
N-Nitroso-di-n-Butylamine	<1.04	<1.04	1	20
Nonylphenol	11	11	1	333
Parathion (ethyl)	<0.0526	<0.0526	1	0.1
Pentachlorobenzene	<1.04	<1.04	1	20
Pentachlorophenol	<1.04	<1.04	1	5
Phenanthrene	<1.04	<1.04	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	1.4	1.4	1	0.2
Pyridine	<5.6	<5.6	1	20
Selenium	<2.00	<2.00		5
Silver	<0.500	<0.500	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.04	<1.04	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Thallium	<0.500	<0.500	1	0.5
Toluene	<10.0	<10.0	1	10
Toxaphene	<0.211	<2.11	1	0.3
2,4,5-TP (Silvex)	<0.300	<0.300	1	0.3
Tributyltin (see instructions for explanation)	<2	<2	2	0.01
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
2,4,5-Trichlorophenol	<1.04	<1.04	1	50
TTHM (Total Trihalomethanes)	173	173	1	10
Vinyl Chloride	<10.0	<10.0	1	10
Zinc	39.3	39.3	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 to enter text.

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<2.00	<2.00	1	5
Arsenic	2.10	2.10	1	0.5
Beryllium	<0.500	<0.500	1	0.5
Cadmium	<1.00	<1.00	1	1
Chromium (Total)	<1.00	<1.00	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Copper	9.39	9.39	1	2
Lead	<0.500	<0.500	1	0.5
Mercury	0.000856	0.000856		0.005
Nickel	<2.00	<2.00	1	2
Selenium	<2.00	<2.00	1	5
Silver	<0.500	<0.500	1	0.5
Thallium	<0.500	<0.500	1	0.5
Zinc	39.3	39.3	1	5
Cyanide **(*2)**	10.2	10.2	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	<10.0	<10.0	1	50
Acrylonitrile	<50.0	<50.0	1	50
Benzene	<10.0	<10.	1	10
Bromoform	156	156	1	10
Carbon Tetrachloride	<2.00	<2.00	1	2
Chlorobenzene	<10.0	<10.0	1	10
Chlorodibromomethane	24.3	24.3	1	10
Chloroethane	<50.0	<50.0	1	50
2-Chloroethylvinyl Ether	<10.0	<10.0	1	10
Chloroform	<10.0	<10.0	1	10
Dichlorobromomethane [Bromodichloromethane]	24.3	24.3	1	10
1,1-Dichloroethane	<10.0	<10.0	1	10
1,2-Dichloroethane	<10.0	<10.0	1	10
1,1-Dichloroethylene	<10.0	<10.0	1	10
1,2-Dichloropropane	<10.0	<10.0	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10.0	<10.0	1	10
1,2-Trans-Dichloroethylene	<10.0	<10.0	1	10
Ethylbenzene	<10.0	<10.0	1	10
Methyl Bromide	<50.0	<50.0	1	50
Methyl Chloride	<50.0	<50.0	1	50
Methylene Chloride	<10.0	<10.0	1	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	1	10
Tetrachloroethylene	<10.0	<10.0	1	10
Toluene	<10.0	<10.0	1	10
1,1,1-Trichloroethane	<10.0	<10.0	1	10
1,1,2-Trichloroethane	<10.0	<10.0	1	10
Trichloroethylene	<10.0	<10.0	1	10
Vinyl Chloride	<10.0	<10.0	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	<1.04	<1.04	1	10
2,4-Dichlorophenol	<1.04	<1.04	1	10
2,4-Dimethylphenol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.30	<8.30	1	50
2,4-Dinitrophenol	<9.34	<9.34	1	50
2-Nitrophenol	<1.04	<1.04	1	20
4-Nitrophenol	<1.04	<1.04	1	50
P-Chloro-m-Cresol	<2.49	<2.49	1	10
Pentalchlorophenol	<1.04	<1.04	1	5
Phenol	<1.56	<1.56	1	10
2,4,6-Trichlorophenol	<1.04	<1.04	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<1.04	<1.04	1	10
Acenaphthylene	<1.04	<1.04	1	10
Anthracene	<1.04	<1.04	1	10
Benzidine	<20.4	<20.4	1	50
Benzo(a)Anthracene	<1.04	<1.04	1	5
Benzo(a)Pyrene	<1.04	<1.04	1	5
3,4-Benzofluoranthene	<1.04	<1.04	1	10
Benzo(ghi)Perylene	<1.04	<1.04	1	20
Benzo(k)Fluoranthene	<1.04	<1.04	1	5
Bis(2-Chloroethoxy)Methane	<1.04	<1.04	1	10
Bis(2-Chloroethyl)Ether	<1.04	<1.04	1	10
Bis(2-Chloroisopropyl)Ether	<1.04	<1.04	1	10
Bis(2-Ethylhexyl)Phthalate	<7.78	<7.78	1	10
4-Bromophenyl Phenyl Ether	<1.04	<1.04	1	10
Butyl benzyl Phthalate	0.944	0.944	1	10
2-Chloronaphthalene	<1.04	<1.04	1	10
4-Chlorophenyl phenyl ether	<1.04	<1.04	1	10
Chrysene	<1.04	<1.04	1	5
Dibenzo(a,h)Anthracene	<1.04	<1.04	1	5
1,2-(o)Dichlorobenzene	<1.04	<1.04	1	10
1,3-(m)Dichlorobenzene	<1.04	<1.04	1	10
1,4-(p)Dichlorobenzene	<1.04	<1.04	1	10
3,3-Dichlorobenzidine	<5.00	<5.00	1	5
Diethyl Phthalate	<5.91	<5.91	1	10
Dimethyl Phthalate	<4.98	<4.98	1	10
Di-n-Butyl Phthalate	<7.78	<7.78	1	10
2,4-Dinitrotoluene	<3.63	<3.63	1	10
2,6-Dinitrotoluene	<1.04	<1.04	1	10
Di-n-Octyl Phthalate	<1.04	<1.04	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.04	<1.04	1	20
Fluoranthene	<1.04	<1.04	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<1.04	<1.04	1	10
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclo-pentadiene	<9.34	<9.34	1	10
Hexachloroethane	<1.04	<1.04	1	20
Indeno(1,2,3-cd)pyrene	<1.04	<1.04	1	5
Isophorone	<1.04	<1.04	1	10
Naphthalene	<1.04	<1.04	1	10
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodimethylamine	<7.26	<7.26		50
N-Nitrosodi-n-Propylamine	<1.04	<1.04	1	20
N-Nitrosodiphenylamine	<1.04	<1.04	1	20
Phenanthrene	<1.56	<1.56	1	10
Pyrene	<1.04	<1.04	1	10
1,2,4-Trichlorobenzene	<1.04	<1.04	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	0.0184	0.0184	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0105	<0.0105	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0105	<0.0105	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0105	<0.0105	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0105	<0.0105	1	0.05
Chlordane	<0.0105	<0.0105	1	0.2
4,4-DDT	<0.0105	<0.0105	1	0.02
4,4-DDE	<0.0105	<0.0105	1	0.1
4,4,-DDD	<0.0105	<0.0105	1	0.1
Dieldrin	<0.0105	<0.0105	1	0.02
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.0105	<0.0105	1	0.02
Endosulfan Sulfate	<0.0105	<0.0105	1	0.1
Endrin	<0.0105	<0.0105	1	0.02
Endrin Aldehyde	<0.0105	<0.0105	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
PCB-1242	<0.200	<0.200	1	0.2
PCB-1254	<0.200	<0.200	1	0.2
PCB-1221	<0.200	<0.200	1	0.2
PCB-1232	<0.200	<0.200	1	0.2
PCB-1248	<0.200	<0.200	1	0.2
PCB-1260	<0.200	<0.200	1	0.2
PCB-1016	<0.200	<0.200	1	0.2
Toxaphene	<0.211	<0.211	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.

Click to enter text.

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 to enter text.

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

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

Grab ☐ Composite ☐

Date and time sample(s) collected: Click 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 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: 12

48-hour Acute: 8

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: N/A

Average Daily Flows, in MGD: Click to enter text.

Significant IUs - non-categorical:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

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 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 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.

E. Service Area Map

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

Attachment: Click to enter text.

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

A. Substantial modifications

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

☐ Yes ☒ No

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

Click 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 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
N/A				

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 to enter text.

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

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

June 10, 2024

City of Galveston
Galveston Airport WWTP
P.O. Box 779
Galveston, TX 77553

RE: **Galveston Airport Permit Renewal**

Enclosed are the results of analyses for samples received by the laboratory on 05/06/24 12:00, with Lab ID Number C4D4860. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois
Special Projects Manager

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
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Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

Galveston Airport WWTP
P.O. Box 779
Galveston TX, 77553

LABORATORY ANALYTICAL REPORT

Project: Galveston Airport Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/06/2024 00:00
Collector:
Sample Type:Composite
Print Date: 6/10/2024

Eff PR Comp
C4D4860-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Metals								
-								
Aluminum - Total	40.7	2.50	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Antimony - Total	<2.00	2.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Arsenic, Total	2.10	0.500	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Barium, Total	64.9	1.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Beryllium, Total	<0.500	0.500	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Cadmium, Total	<1.00	1.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Chromium, Total	<1.00	1.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Copper, Total	9.39	1.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Lead, Total	<0.500	0.500	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Nickel, Total	<2.00	2.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Selenium, Total	<2.00	2.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Silver, Total	<0.500	0.500	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Thallium, Total	<0.500	0.500	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Zinc, Total	39.3	5.00	ug/L	A	B4E1385	05/09/2024 13:01	EPA 200.8	
Wet Lab								
-								
Chromium, (VI)	<3	3	ug/L	A	B4E0866	05/06/2024 16:00	SM 3500 Cr B	
Chromium, Trivalent	<3	3	ug/L	N	B4E2634	05/15/2024 12:00	-	
Fluoride	144	100	ug/L	A	B4E1010	05/06/2024 17:50	EPA 300.0	23
Nitrate as N	7750	50.0	ug/L	A	B4E1010	05/06/2024 17:50	EPA 300.0	23

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

EASTEX
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Tel: 936 653 3249

Galveston Airport WWTP
P.O. Box 779
Galveston TX, 77553

Project: Galveston Airport Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/06/2024 09:30
Collector: DMP
Sample Type:Grab
Print Date: 6/10/2024

Eff PR Grab

C4D4860-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Field								
Chlorine	2.4	0.1	mg/L	N	B4E0954	05/06/2024 08:30	SM 4500 Cl F	
DO	6.8		mg/L	N	B4E0954	05/06/2024 08:30	SM 4500 O G	
pH	7.1		std unit	N	B4E0954	05/06/2024 08:30	SM 4500 H + B	
Metals								
Total Phosphorus	2.75	0.0600	mg/L	A	B4E1841	05/10/2024 15:01	EPA 200.7	
Microbiological Lab								
E coli IDEXX	24	1	mpn/100ml	A	B4E1008	05/06/2024 14:37	Colilert 18	
Organics								
Volatiles 624.1-Permit								
1,1,1-Trichloroethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,1,2,2-Tetrachloroethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,1,2-Trichloroethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,1-Dichloroethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,1- Dichloroethene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,2-Dibromoethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,2-Dichloroethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,2-Dichloropropane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
2-Chloroethyl vinyl ether	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Acrolein	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Acrylonitrile	<50.0	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Benzene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Bromodichloromethane	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Bromoform	156	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	23
Carbon Tetrachloride	<2.00	2.00	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	

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EASTEX
ENVIRONMENTAL LABS INC.

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Galveston Airport WWTP
P.O. Box 779
Galveston TX, 77553

Project: Galveston Airport Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/06/2024 09:30
Collector: DMP
Sample Type:Grab
Print Date: 6/10/2024

Eff PR Grab

C4D4860-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Organics								
Chlorobenzene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Chloroethane	<50.0	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	13
Chloroform	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Dibromochloromethane (Chlorodibromomethane)	24.3	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Cis-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Ethylbenzene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Methyl Bromide	<50.0	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Methyl Chloride	<50.0	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Methyl Ethyl Ketone	<50.0	50.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Toluene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
trans-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Trans-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Trichloroethene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Total Trihalomethanes	173	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Cis-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Vinyl Chloride	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
1,3-Dichloropropene	<10.0	10.0	ug/L	N	B4E0979	05/06/2024 15:41	EPA 624.1	
Methylene Chloride (Dichloromethane)	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Tetrachloroethene (Tetrachloroethylene)	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Acetone	<10.0	10.0	ug/L	A	B4E0979	05/06/2024 15:41	EPA 624.1	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*		*B4E0979*	05/06/2024 15:41	*EPA 624.1*	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*70-130*		*B4E0979*	05/06/2024 15:41	*EPA 624.1*	
Surrogate: Dibromofluoromethane		*102 %*	*70-130*		*B4E0979*	05/06/2024 15:41	*EPA 624.1*	
Surrogate: Toluene-d8		*89.4 %*	*70-130*		*B4E0979*	05/06/2024 15:41	*EPA 624.1*	

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NELAP ACCREDITED TNI LABORATORY

Galveston Airport WWTP
P.O. Box 779
Galveston TX, 77553

Project: Galveston Airport Permit Renewal
Client Matrix: Water

Sample Date & Time: 05/06/2024 09:30
Collector: DMP
Sample Type:Grab
Print Date: 6/10/2024

Eff PR Grab

C4D4860-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Wet Lab								
Alkalinity	140	20.0	mg CaCO3/L	A	B4E1553	05/10/2024 13:44	SM 2320 B	
Ammonia as N	<0.1	0.1	mg/L	A	B4E1507	05/10/2024 17:47	SM 4500 NH3 G	
CBOD 5	<2.0	2.0	mg/L	A	B4E1053	05/07/2024 07:27	SM 5210 B	13
Chloride	1680	5.0	mg/L	A	B4E1010	05/10/2024 15:10	EPA 300.0	
Conductivity	6502	10	µmhos/cm @25C	A	B4E1115	05/08/2024 14:15	SM 2510 B	
Nitrate as N	5.67	0.05	mg/L	A	B4E1010	05/06/2024 17:50	EPA 300.0	
Oil Grease, HEM	<5.4	5.4	mg/L	A	B4E3302	05/20/2024 09:06	EPA 1664A	
Phenol, low level	<10.0	10.0	ppb	A	B4E1126	05/07/2024 13:00	EPA 420.1	
Sulfate	253	4.0	mg/L	A	B4E1010	05/06/2024 17:50	EPA 300.0	
TDS	3800	10.0	mg/L	A	B4E1082	05/07/2024 17:20	SM 2540 C	
TKN	2.1	1.0	mg/L	A	B4E1689	06/03/2024 10:30	EPA 351.2	B
TSS	7.8	1.0	mg/L	A	B4E1030	05/07/2024 10:31	SM 2540 D	

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Galveston Airport WWTP
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SM 3500 Cr B - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0866 - No Prep	**Prepared: 05/06/24 16:00**									
Blank (B4E0866-BLK1)				**Analyzed:** 5/6/2024 4:00:00PM						
Chromium, (VI)	ND	3	ug/L							
LCS (B4E0866-BS1)				**Analyzed:** 5/6/2024 4:00:00PM						
Chromium, (VI)	19.677		ug/L	20.0		98.4	95-105			
Matrix Spike (B4E0866-MS1)	**Source: C4D4860-01**			**Analyzed:** 5/6/2024 4:00:00PM						
Chromium, (VI)	37.393	3	ug/L	45.5	ND	82.2	80-120			
Matrix Spike Dup (B4E0866-MSD1)	**Source: C4D4860-01**			**Analyzed:** 5/6/2024 4:00:00PM						
Chromium, (VI)	37.393	3	ug/L	45.5	ND	82.2	80-120	0.00	20	
Batch B4E0979 - EPA 5030C	**Prepared: 05/06/24 10:15**									
Blank (B4E0979-BLK1)				**Analyzed:** 5/6/2024 3:14:00PM						
1,1,1-Trichloroethane	ND	10.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	10.0	ug/L							
1,1,2-Trichloroethane	ND	10.0	ug/L							
1,1-Dichloroethane	ND	10.0	ug/L							
1,1- Dichloroethene	ND	10.0	ug/L							
1,2-Dibromoethane	ND	10.0	ug/L							
1,2-Dichloroethane	ND	10.0	ug/L							
1,2-Dichloropropane	ND	10.0	ug/L							
2-Chloroethyl vinyl ether	ND	10.0	ug/L							
Acrolein	ND	10.0	ug/L							
Acrylonitrile	ND	50.0	ug/L							
Benzene	ND	10.0	ug/L							
Bromodichloromethane	ND	10.0	ug/L							
Bromoform	ND	10.0	ug/L							
Carbon Tetrachloride	ND	2.00	ug/L							
Chlorobenzene	ND	10.0	ug/L							
Chloroethane	ND	50.0	ug/L							
Chloroform	ND	10.0	ug/L							
Dibromochloromethane (Chlorodibromomethane)	ND	10.0	ug/L							
Cis-1,3-Dichloropropene	ND	10.0	ug/L							
Ethylbenzene	ND	10.0	ug/L							
Methyl Bromide	ND	50.0	ug/L							
Methyl Chloride	ND	50.0	ug/L							

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0979 - EPA 5030C	**Prepared: 05/06/24 10:15**									
Blank (B4E0979-BLK1)				**Analyzed:** 5/6/2024 3:14:00PM						
Methyl Ethyl Ketone	ND	50.0	ug/L							
Toluene	ND	10.0	ug/L							
trans-1,2-Dichloroethene	ND	10.0	ug/L							
Trans-1,3-Dichloropropene	ND	10.0	ug/L							
Trichloroethene	ND	10.0	ug/L							
Total Trihalomethanes	ND	10.0	ug/L							
Cis-1,2-Dichloroethene	ND	10.0	ug/L							
Vinyl Chloride	ND	10.0	ug/L							
1,3-Dichloropropene	ND	10.0	ug/L							
Methylene Chloride (Dichloromethane)	ND	10.0	ug/L							
Tetrachloroethene (Tetrachloroethylene)	ND	10.0	ug/L							
Acetone	ND	10.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*18.0*		ug/L	*20.0*		*89.8*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*17.6*		ug/L	*20.0*		*87.9*	*70-130*			
Surrogate: Dibromofluoromethane	*20.0*		ug/L	*20.0*		*99.8*	*70-130*			
Surrogate: Toluene-d8	*19.0*		ug/L	*20.0*		*94.8*	*70-130*			
LCS (B4E0979-BS1)				**Analyzed:** 5/6/2024 2:21:00PM						
1,1,1-Trichloroethane	19.9	10.0	ug/L	20.0		99.7	70-130			
1,1,2,2-Tetrachloroethane	18.4	10.0	ug/L	20.0		92.0	60-140			
1,1,2-Trichloroethane	19.0	10.0	ug/L	20.0		95.1	70-130			
1,1-Dichloroethane	19.3	10.0	ug/L	20.0		96.3	70-130			
1,1- Dichloroethene	19.5	10.0	ug/L	20.0		97.3	50-150			
1,2-Dibromoethane	19.2	10.0	ug/L	20.0		96.0	70-130			
1,2-Dichloroethane	20.8	10.0	ug/L	20.0		104	70-130			
1,2-Dichloropropane	20.1	10.0	ug/L	20.0		101	35-165			
2-Chloroethyl vinyl ether	102	10.0	ug/L	100		102	0-225			
Acrolein	195	10.0	ug/L	200		97.5	60-140			
Acrylonitrile	18.1	50.0	ug/L	20.0		90.7	60-140			
Benzene	19.2	10.0	ug/L	20.0		96.2	65-135			
Bromodichloromethane	20.8	10.0	ug/L	20.0		104	65-135			
Bromoform	21.1	10.0	ug/L	20.0		106	70-130			
Carbon Tetrachloride	21.0	2.00	ug/L	20.0		105	70-130			
Chlorobenzene	18.6	10.0	ug/L	20.0		92.9	65-135			
Chloroethane	37.0	50.0	ug/L	20.0		185	40-160			13
Chloroform	20.0	10.0	ug/L	20.0		100	70-135			

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Galveston Airport WWTP
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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0979 - EPA 5030C	**Prepared: 05/06/24 10:15**									
LCS (B4E0979-BS1)				**Analyzed:** 5/6/2024 2:21:00PM						
Dibromochloromethane (Chlorodibromomethane)	19.8	10.0	ug/L	20.0		98.8	70-135			
Cis-1,3-Dichloropropene	21.5	10.0	ug/L	20.0		107	25-175			
Ethylbenzene	18.2	10.0	ug/L	20.0		91.0	60-140			
Methyl Bromide	19.8	50.0	ug/L	20.0		99.0	70-130			
Methyl Chloride	13.1	50.0	ug/L	20.0		65.3	0-221			
Methyl Ethyl Ketone	99.8	50.0	ug/L	100		99.8	70-130			
Toluene	17.7	10.0	ug/L	20.0		88.5	70-130			
trans-1,2-Dichloroethene	19.4	10.0	ug/L	20.0		97.2	70-130			
Trans-1,3-Dichloropropene	19.5	10.0	ug/L	20.0		97.3	50-150			
Trichloroethene	19.4	10.0	ug/L	20.0		97.0	65-135			
Cis-1,2-Dichloroethene	18.7	10.0	ug/L	20.0		93.4	63-137			
Vinyl Chloride	15.3	10.0	ug/L	20.0		76.4	50-150			
Methylene Chloride (Dichloromethane)	19.3	10.0	ug/L	20.0		96.4	60-140			
Tetrachloroethene (Tetrachloroethylene)	18.7	10.0	ug/L	20.0		93.4	70-130			
Acetone	92.7	10.0	ug/L	100		92.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.9*		ug/L	*20.0*		*115*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.3*		ug/L	*20.0*		*96.6*	*70-130*			
Surrogate: Dibromofluoromethane	*21.9*		ug/L	*20.0*		*110*	*70-130*			
Surrogate: Toluene-d8	*18.5*		ug/L	*20.0*		*92.5*	*70-130*			
Matrix Spike (B4E0979-MS1)		**Source: C4D4860-02**		**Analyzed:** 5/6/2024 4:19:00PM						
1,1,1-Trichloroethane	19.0	10.0	ug/L	20.0	ND	95.2	52-162			
1,1,2,2-Tetrachloroethane	17.7	10.0	ug/L	20.0	ND	88.6	46-157			
1,1,2-Trichloroethane	18.1	10.0	ug/L	20.0	ND	90.7	52-150			
1,1-Dichloroethane	18.8	10.0	ug/L	20.0	ND	93.8	59-155			
1,1- Dichloroethene	17.5	10.0	ug/L	20.0	ND	87.6	0-234			
1,2-Dibromoethane	17.8	10.0	ug/L	20.0	ND	88.9	70-130			
1,2-Dichloroethane	20.3	10.0	ug/L	20.0	ND	101	49-155			
1,2-Dichloropropane	19.8	10.0	ug/L	20.0	ND	98.8	0-210			
2-Chloroethyl vinyl ether	100	10.0	ug/L	100	ND	100	0-305			
Acrolein	176	10.0	ug/L	200	ND	88.1	40-160			
Acrylonitrile	17.4	50.0	ug/L	20.0	ND	86.9	40-160			
Benzene	18.7	10.0	ug/L	20.0	ND	93.5	37-151			
Bromodichloromethane	24.6	10.0	ug/L	20.0	4.06	103	35-155			
Bromoform	160	10.0	ug/L	20.0	156	19.5	45-169			23
Carbon Tetrachloride	19.2	2.00	ug/L	20.0	ND	95.9	70-140			

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NELAP ACCREDITED TNI LABORATORY

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0979 - EPA 5030C	**Prepared: 05/06/24 10:15**									
Matrix Spike (B4E0979-MS1)	**Source: C4D4860-02**			**Analyzed:** 5/6/2024 4:19:00PM						
Chlorobenzene	17.5	10.0	ug/L	20.0	ND	87.7	37-160			
Chloroethane	32.9	50.0	ug/L	20.0	ND	165	14-230			13
Chloroform	20.5	10.0	ug/L	20.0	ND	103	51-138			
Dibromochloromethane (Chlorodibromomethane)	41.5	10.0	ug/L	20.0	24.3	85.9	53-149			
Cis-1,3-Dichloropropene	20.6	10.0	ug/L	20.0	ND	103	0-227			
Ethylbenzene	17.3	10.0	ug/L	20.0	ND	86.4	37-162			
Methyl Bromide	17.3	50.0	ug/L	20.0	ND	86.4	70-130			
Methyl Chloride	13.7	50.0	ug/L	20.0	ND	68.7	0-221			
Methyl Ethyl Ketone	94.2	50.0	ug/L	100	ND	94.2	70-130			
Toluene	16.7	10.0	ug/L	20.0	ND	83.6	47-150			
trans-1,2-Dichloroethene	17.7	10.0	ug/L	20.0	ND	88.7	54-156			
Trans-1,3-Dichloropropene	18.5	10.0	ug/L	20.0	ND	92.6	17-183			
Trichloroethene	18.2	10.0	ug/L	20.0	ND	91.1	70-157			
Cis-1,2-Dichloroethene	19.0	10.0	ug/L	20.0	ND	94.9	63-137			
Vinyl Chloride	14.4	10.0	ug/L	20.0	ND	72.0	0-151			
Methylene Chloride (Dichloromethane)	18.6	10.0	ug/L	20.0	ND	92.8	0-221			
Tetrachloroethene (Tetrachloroethylene)	13.6	10.0	ug/L	20.0	ND	68.0	64-148			
Acetone	89.1	10.0	ug/L	100	ND	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.7*		ug/L	*20.0*		*113*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.2*		ug/L	*20.0*		*95.8*	*70-130*			
Surrogate: Dibromofluoromethane	*21.4*		ug/L	*20.0*		*107*	*70-130*			
Surrogate: Toluene-d8	*18.0*		ug/L	*20.0*		*90.2*	*70-130*			
Matrix Spike Dup (B4E0979-MSD1)	**Source: C4D4860-02**			**Analyzed:** 5/6/2024 4:47:00PM						
1,1,1-Trichloroethane	19.6	10.0	ug/L	20.0	ND	97.8	52-162	2.65	36	
1,1,2,2-Tetrachloroethane	18.0	10.0	ug/L	20.0	ND	90.0	46-157	1.67	61	
1,1,2-Trichloroethane	18.4	10.0	ug/L	20.0	ND	92.0	52-150	1.41	45	
1,1-Dichloroethane	19.8	10.0	ug/L	20.0	ND	99.0	59-155	5.40	40	
1,1- Dichloroethene	17.9	10.0	ug/L	20.0	ND	89.3	0-234	1.90	32	
1,2-Dibromoethane	17.7	10.0	ug/L	20.0	ND	88.7	70-130	0.191	25	
1,2-Dichloroethane	19.9	10.0	ug/L	20.0	ND	99.5	49-155	1.81	49	
1,2-Dichloropropane	20.5	10.0	ug/L	20.0	ND	102	0-210	3.61	55	
2-Chloroethyl vinyl ether	102	10.0	ug/L	100	ND	102	0-305	1.82	71	
Acrolein	161	10.0	ug/L	200	ND	80.5	40-160	9.03	60	
Acrylonitrile	16.3	50.0	ug/L	20.0	ND	81.7	40-160	6.21	60	
Benzene	19.6	10.0	ug/L	20.0	ND	97.8	37-151	4.48	61	

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EPA 624.1 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E0979 - EPA 5030C	**Prepared: 05/06/24 10:15**									
Matrix Spike Dup (B4E0979-MSD1)	**Source: C4D4860-02**			**Analyzed:** 5/6/2024 4:47:00PM						
Bromodichloromethane	25.2	10.0	ug/L	20.0	4.06	106	35-155	2.51	56	
Bromoform	164	10.0	ug/L	20.0	156	42.5	45-169	2.84	42	
Carbon Tetrachloride	19.2	2.00	ug/L	20.0	ND	96.1	70-140	0.206	41	
Chlorobenzene	18.6	10.0	ug/L	20.0	ND	92.8	37-160	5.65	53	
Chloroethane	29.8	50.0	ug/L	20.0	ND	149	14-230	10.0	78	13
Chloroform	21.4	10.0	ug/L	20.0	ND	107	51-138	4.46	54	
Dibromochloromethane (Chlorodibromomethane)	43.6	10.0	ug/L	20.0	24.3	96.7	53-149	5.09	50	
Cis-1,3-Dichloropropene	21.0	10.0	ug/L	20.0	ND	105	0-227	1.70	58	
Ethylbenzene	18.0	10.0	ug/L	20.0	ND	89.9	37-162	3.98	63	
Methyl Bromide	17.8	50.0	ug/L	20.0	ND	89.2	70-130	3.08	25	
Methyl Chloride	15.2	50.0	ug/L	20.0	ND	76.1	0-221	10.2	25	
Methyl Ethyl Ketone	82.1	50.0	ug/L	100	ND	82.1	70-130	13.7	25	
Toluene	18.1	10.0	ug/L	20.0	ND	90.3	47-150	7.61	41	
trans-1,2-Dichloroethene	18.9	10.0	ug/L	20.0	ND	94.4	54-156	6.26	45	
Trans-1,3-Dichloropropene	19.1	10.0	ug/L	20.0	ND	95.5	17-183	3.10	86	
Trichloroethene	18.7	10.0	ug/L	20.0	ND	93.4	70-157	2.55	48	
Cis-1,2-Dichloroethene	18.5	10.0	ug/L	20.0	ND	92.3	63-137	2.81	25	
Vinyl Chloride	15.6	10.0	ug/L	20.0	ND	77.9	0-151	7.79	66	
Methylene Chloride (Dichloromethane)	19.4	10.0	ug/L	20.0	ND	97.1	0-221	4.44	28	
Tetrachloroethene (Tetrachloroethylene)	13.8	10.0	ug/L	20.0	ND	68.9	64-148	1.28	39	
Acetone	80.6	10.0	ug/L	100	ND	80.6	70-130	10.0	25	
Surrogate: 1,2-Dichloroethane-d4	*21.0*		ug/L	*20.0*		*105*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*18.8*		ug/L	*20.0*		*94.0*	*70-130*			
Surrogate: Dibromofluoromethane	*20.8*		ug/L	*20.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*18.6*		ug/L	*20.0*		*92.9*	*70-130*			
Batch B4E1008 - No Prep Micro	**Prepared: 05/06/24 14:37**									
Blank (B4E1008-BLK1)				**Analyzed:** 5/6/2024 2:37:00PM						
E coli IDEXX	ND	1	mpn/100ml							
Duplicate (B4E1008-DUP1)	**Source: C4E1490-01**			**Analyzed:** 5/6/2024 2:37:00PM						
E coli IDEXX	ND	10	mpn/100ml		ND				200	
Batch B4E1010 - No Prep	**Prepared: 05/06/24 17:50**									
Blank (B4E1010-BLK1)				**Analyzed:** 5/6/2024 5:50:00PM						

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EPA 300.0 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1010 - No Prep	**Prepared: 05/06/24 17:50**									
Blank (B4E1010-BLK1)				**Analyzed:** 5/6/2024 5:50:00PM						
Chloride	ND	5.0	mg/L							
Nitrate as N	ND	0.05	mg/L							
Sulfate	ND	4.0	mg/L							
Fluoride	ND	100	ug/L							
Nitrate as N	ND	50.0	ug/L							
LCS (B4E1010-BS1)				**Analyzed:** 5/6/2024 5:50:00PM						
Chloride	23.4		mg/L	25.0		93.5	90-110			
Fluoride	0.471		mg/L	0.500		94.2	90-110			
Nitrate as N	1.4376		mg/L	1.50		95.8	90-110			
Sulfate	19.0		mg/L	20.0		94.9	90-110			
Matrix Spike (B4E1010-MS1)	**Source: C4D4860-01**			**Analyzed:** 5/6/2024 5:50:00PM						
Chloride	1730	5.0	mg/L	125	1650	64.2	80-120			23
Nitrate as N	22.8671	0.05	mg/L	7.50	7.7471	202	80-120			23
Sulfate	355	4.0	mg/L	100	253	102	80-120			
Fluoride	2050	100	ug/L	2500	144	76.1	80-120			23
Nitrate as N	22867.1	50.0	ug/L	7500	7747.1	202	80-120			23
Matrix Spike Dup (B4E1010-MSD1)	**Source: C4D4860-01**			**Analyzed:** 5/6/2024 5:50:00PM						
Chloride	1720	5.0	mg/L	125	1650	59.7	80-120	0.323	20	
Nitrate as N	22.7945	0.05	mg/L	7.50	7.7471	201	80-120	0.318	20	
Sulfate	354	4.0	mg/L	100	253	101	80-120	0.383	20	
Fluoride	2040	100	ug/L	2500	144	75.9	80-120	0.274	20	
Nitrate as N	22794.5	50.0	ug/L	7500	7747.1	201	80-120	0.318	20	
Batch B4E1030 - No Prep	**Prepared: 05/07/24 10:31**									
Blank (B4E1030-BLK1)				**Analyzed:** 5/7/2024 10:31:00AM						
TSS	ND	1.0	mg/L							
Duplicate (B4E1030-DUP1)	**Source: C4E1247-01**			**Analyzed:** 5/7/2024 10:31:00AM						
TSS	130	1.0	mg/L		118			9.68	10	
Batch B4E1053 - No Prep	**Prepared: 05/07/24 07:27**									
Blank (B4E1053-BLK1)				**Analyzed:** 5/7/2024 7:27:00AM						
CBOD 5	ND	2.0	mg/L							

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SM 5210 B - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1053 - No Prep	**Prepared: 05/07/24 07:27**									
LCS (B4E1053-BS1)				**Analyzed:** 5/7/2024 7:27:00AM						
CBOD 5	161		mg/L	198		81.1	84.59-115.40.			13
Duplicate (B4E1053-DUP1)	**Source: C4E1404-01**			**Analyzed:** 5/7/2024 7:27:00AM						
CBOD 5	0.900	2.0	mg/L		0.370			83.5	30	13
Batch B4E1082 - No Prep	**Prepared: 05/07/24 17:20**									
Blank (B4E1082-BLK1)				**Analyzed:** 5/7/2024 5:20:00PM						
TDS	ND	10.0	mg/L							
LCS (B4E1082-BS1)				**Analyzed:** 5/7/2024 5:20:00PM						
TDS	300		mg/L	300		100	80-120			
Duplicate (B4E1082-DUP1)	**Source: C4D4860-02**			**Analyzed:** 5/7/2024 5:20:00PM						
TDS	3780	10.0	mg/L		3800			0.528	10	
Batch B4E1115 - No Prep	**Prepared: 05/08/24 14:15**									
Blank (B4E1115-BLK1)				**Analyzed:** 5/8/2024 2:15:00PM						
Conductivity	ND	10	µmhos/cm @25C							
LCS (B4E1115-BS1)				**Analyzed:** 5/8/2024 2:15:00PM						
Conductivity	1005		µmhos/cm @25C	1000		100	80-120			
Duplicate (B4E1115-DUP1)	**Source: C4D4860-02**			**Analyzed:** 5/8/2024 2:15:00PM						
Conductivity	6496	10	µmhos/cm @25C		6502			0.0923	20	
Batch B4E1126 - No Prep	**Prepared: 05/07/24 13:00**									
Blank (B4E1126-BLK1)				**Analyzed:** 5/7/2024 1:00:00PM						
Phenol, low level	ND	10.0	ppb							
LCS (B4E1126-BS1)				**Analyzed:** 5/7/2024 1:00:00PM						
Phenol, low level	47.2		ppb	50.0		94.5	80-120			
Matrix Spike (B4E1126-MS1)	**Source: C4D4860-02**			**Analyzed:** 5/7/2024 1:00:00PM						
Phenol, low level	44.0	10.0	ppb	40.0	ND	110	80-120			

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EPA 420.1 - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1126 - No Prep	**Prepared: 05/07/24 13:00**									
Matrix Spike Dup (B4E1126-MSD1)	**Source: C4D4860-02**			**Analyzed:** 5/7/2024 1:00:00PM						
Phenol, low level	46.4	10.0	ppb	40.0	ND	116	80-120	5.33	20	
Batch B4E1385 - EPA 200.8	**Prepared: 05/08/24 09:57**									
Blank (B4E1385-BLK1)				**Analyzed:** 5/9/2024 12:55:00PM						
Aluminum - Total	ND	2.50	ug/L							
Antimony - Total	ND	5.00	ug/L							
Arsenic, Total	ND	0.500	ug/L							
Barium, Total	ND	3.00	ug/L							
Beryllium, Total	ND	0.500	ug/L							
Cadmium, Total	ND	1.00	ug/L							
Chromium, Total	ND	3.00	ug/L							
Copper, Total	ND	2.00	ug/L							
Lead, Total	ND	0.500	ug/L							
Nickel, Total	ND	2.00	ug/L							
Selenium, Total	ND	5.00	ug/L							
Silver, Total	ND	0.500	ug/L							
Thallium, Total	ND	0.500	ug/L							
Zinc, Total	ND	5.00	ug/L							
LCS (B4E1385-BS1)				**Analyzed:** 5/9/2024 12:58:00PM						
Aluminum - Total	104	2.50	ug/L	100		104	85-115			
Antimony - Total	106	5.00	ug/L	100		106	85-115			
Arsenic, Total	107	0.500	ug/L	100		107	85-115			
Barium, Total	107	3.00	ug/L	100		107	85-115			
Beryllium, Total	104	0.500	ug/L	100		104	85-115			
Cadmium, Total	108	1.00	ug/L	100		108	85-115			
Chromium, Total	106	3.00	ug/L	100		106	85-115			
Copper, Total	99.9	2.00	ug/L	100		99.9	85-115			
Lead, Total	109	0.500	ug/L	100		109	85-115			
Nickel, Total	109	2.00	ug/L	100		109	85-115			
Selenium, Total	105	5.00	ug/L	100		105	85-115			
Silver, Total	99.8	0.500	ug/L	100		99.8	85-115			
Thallium, Total	109	0.500	ug/L	100		109	85-115			
Zinc, Total	108	5.00	ug/L	100		108	85-115			
Matrix Spike (B4E1385-MS1)	**Source: C4D4860-01**			**Analyzed:** 5/9/2024 1:08:00PM						
Aluminum - Total	149	2.50	ug/L	100	40.7	108	70-130			

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.

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EPA 200.8 - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1385 - EPA 200.8	**Prepared: 05/08/24 09:57**									
Matrix Spike (B4E1385-MS1)	**Source: C4D4860-01**			**Analyzed:** 5/9/2024 1:08:00PM						
Antimony - Total	102	5.00	ug/L	100	0.585	101	70-130			
Arsenic, Total	105	0.500	ug/L	100	2.10	103	70-130			
Barium, Total	167	3.00	ug/L	100	64.9	102	70-130			
Beryllium, Total	92.0	0.500	ug/L	100	ND	92.0	70-130			
Cadmium, Total	101	1.00	ug/L	100	ND	101	70-130			
Chromium, Total	101	3.00	ug/L	100	0.678	99.9	70-130			
Copper, Total	100	2.00	ug/L	100	9.39	90.9	70-130			
Lead, Total	99.2	0.500	ug/L	100	0.371	98.8	70-130			
Nickel, Total	97.6	2.00	ug/L	100	1.74	95.9	70-130			
Selenium, Total	96.9	5.00	ug/L	100	1.01	95.9	70-130			
Silver, Total	90.8	0.500	ug/L	100	ND	90.8	70-130			
Thallium, Total	104	0.500	ug/L	100	0.0510	104	70-130			
Zinc, Total	136	5.00	ug/L	100	39.3	96.8	70-130			
Matrix Spike Dup (B4E1385-MSD1)	**Source: C4D4860-01**			**Analyzed:** 5/9/2024 1:11:00PM						
Aluminum - Total	149	2.50	ug/L	100	40.7	108	70-130	0.0576	20	
Antimony - Total	105	5.00	ug/L	100	0.585	104	70-130	3.02	20	
Arsenic, Total	106	0.500	ug/L	100	2.10	104	70-130	0.270	20	
Barium, Total	170	3.00	ug/L	100	64.9	105	70-130	1.57	20	
Beryllium, Total	95.0	0.500	ug/L	100	ND	95.0	70-130	3.12	20	
Cadmium, Total	101	1.00	ug/L	100	ND	101	70-130	0.0635	20	
Chromium, Total	100	3.00	ug/L	100	0.678	99.7	70-130	0.183	20	
Copper, Total	99.3	2.00	ug/L	100	9.39	89.9	70-130	1.05	20	
Lead, Total	96.8	0.500	ug/L	100	0.371	96.5	70-130	2.44	20	
Nickel, Total	99.0	2.00	ug/L	100	1.74	97.3	70-130	1.43	20	
Selenium, Total	97.6	5.00	ug/L	100	1.01	96.5	70-130	0.692	20	
Silver, Total	91.0	0.500	ug/L	100	ND	91.0	70-130	0.249	20	
Thallium, Total	102	0.500	ug/L	100	0.0510	102	70-130	2.14	20	
Zinc, Total	138	5.00	ug/L	100	39.3	99.0	70-130	1.59	20	
Batch B4E1507 - No Prep	**Prepared: 05/10/24 17:47**									
Blank (B4E1507-BLK1)				**Analyzed:** 5/10/2024 5:47:00PM						
Ammonia as N	ND	0.1	mg/L							
LCS (B4E1507-BS1)				**Analyzed:** 5/10/2024 5:47:00PM						
Ammonia as N	3.63		mg/L	4.00		90.7	90-110			

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SM 4500 NH3 G - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1507 - No Prep	**Prepared: 05/10/24 17:47**									
Matrix Spike (B4E1507-MS1)	**Source: C4D4860-02**			**Analyzed:** 5/10/2024 5:47:00PM						
Ammonia as N	2.7	0.1	mg/L	2.50	0.08	107	80-120			
Matrix Spike Dup (B4E1507-MSD1)	**Source: C4D4860-02**			**Analyzed:** 5/10/2024 5:47:00PM						
Ammonia as N	2.7	0.1	mg/L	2.50	0.08	105	80-120	1.65	20	
Batch B4E1553 - No Prep	**Prepared: 05/10/24 13:44**									
Blank (B4E1553-BLK1)				**Analyzed:** 5/10/2024 1:44:00PM						
Alkalinity	ND	20.0	mg CaCO3/L							
LCS (B4E1553-BS1)				**Analyzed:** 5/10/2024 1:44:00PM						
Alkalinity	46.0		mg CaCO3/L	50.0		92.0	80-120			
Duplicate (B4E1553-DUP1)	**Source: C4D4860-02**			**Analyzed:** 5/10/2024 1:44:00PM						
Alkalinity	142	20.0	mg CaCO3/L		140			1.42	20	
Batch B4E1689 - SM 4500 Norg C	**Prepared: 05/30/24 15:15**									
Blank (B4E1689-BLK1)				**Analyzed:** 6/3/2024 10:30:00AM						
TKN	0.672	1.0	mg/L							
LCS (B4E1689-BS1)				**Analyzed:** 6/3/2024 10:30:00AM						B
TKN	10.1		mg/L	10.0		101	90-110			
Matrix Spike (B4E1689-MS1)	**Source: C4D4860-02**			**Analyzed:** 6/3/2024 10:30:00AM						B
TKN	11.9	1.0	mg/L	10.0	2.11	98.1	80-120			
Matrix Spike Dup (B4E1689-MSD1)	**Source: C4D4860-02**			**Analyzed:** 6/3/2024 10:30:00AM						B
TKN	12.3	1.0	mg/L	10.0	2.11	101	80-120	2.71	20	B
Batch B4E1841 - EPA 200.7	**Prepared: 05/09/24 14:00**									
Blank (B4E1841-BLK1)				**Analyzed:** 5/10/2024 2:58:02PM						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B4E1841-BS1)				**Analyzed:** 5/10/2024 2:59:38PM						
Total Phosphorus	2.49	0.0600	mg/L	2.52		98.9	85-115			
Matrix Spike (B4E1841-MS1)	**Source: C4D4860-02**			**Analyzed:** 5/10/2024 3:04:26PM						
Total Phosphorus	5.54	0.0600	mg/L	2.52	2.75	111	70-130			

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Galveston TX, 77553

EPA 200.7 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1841 - EPA 200.7	**Prepared: 05/09/24 14:00**									
Matrix Spike Dup (B4E1841-MSD1)	**Source: C4D4860-02**			**Analyzed:** 5/10/2024 3:06:02PM						
Total Phosphorus	5.47	0.0600	mg/L	2.52	2.75	108	70-130	1.33	20	
Batch B4E3302 - No Prep	**Prepared: 05/20/24 09:06**									
Blank (B4E3302-BLK1)				**Analyzed:** 5/20/2024 9:06:00AM						
Oil Grease, HEM	ND	5.0	mg/L							
LCS (B4E3302-BS1)				**Analyzed:** 5/20/2024 9:06:00AM						
Oil Grease, HEM	40.1	5.0	mg/L	40.0		100	78-114			
LCS Dup (B4E3302-BSD1)				**Analyzed:** 5/20/2024 9:06:00AM						
Oil Grease, HEM	40.2	5.0	mg/L	40.0		100	78-114	0.249	18	
Matrix Spike (B4E3302-MS1)	**Source: C4E2758-01**			**Analyzed:** 5/20/2024 9:06:00AM						
Oil Grease, HEM	42.8	5.4	mg/L	40.0	2.54	101	78-114			

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

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Galveston Airport WWTP
P.O. Box 779
Galveston TX, 77553

Notes and Definitions

B	Analyte detected in Method Blank.
23	Spike recovery outside of acceptance limits due to matrix interference.
13	LCS associated with sample batch outside of acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

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Sample	Sample ID	Taken	Time	Received
2297153	*C4D4860-01*	05/06/2024	00:00:00	05/08/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Client Supplied Amber Glass
Bottle 06 Client Supplied Amber Glass
Bottle 07 Client Supplied Amber Glass
Bottle 08 Client Supplied Amber Glass
Bottle 09 Client Supplied Amber Glass
Bottle 10 Client Supplied Amber Glass
Bottle 11 Client supplied H2SO4 Amber Glass
Bottle 12 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1118551) Volume: 1.00000 mL <== Derived from 03 (950 ml)
Bottle 13 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1118559) Volume: 1.00000 mL <== Derived from 03 (950 ml)
Bottle 14 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1118560) Volume: 1.00000 mL <== Derived from 03 (950 ml)
Bottle 15 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1118565) Volume: 1.00000 mL <== Derived from 03 (950 ml)
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1118791) Volume: 10.00000 mL <== Derived from 10 (962 ml)
Bottle 17 Prepared Bottle: 2 mL Autosampler Vial (Batch 1119006) Volume: 1.00000 mL <== Derived from 08 (964 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1119221) Volume: 1.00000 mL <== Derived from 11 (989 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	13	1118559	05/09/2024	1119046	05/11/2024
EPA 608.3	15	1118565	05/09/2024	1119051	05/11/2024
EPA 615	16	1118791	05/10/2024	1119920	05/16/2024
EPA 632	12	1118551	05/09/2024	1120962	05/22/2024
EPA 625.1	17	1119006	05/13/2024	1119699	05/15/2024
EPA 614	14	1118560	05/09/2024	1120024	05/16/2024
ASTM D7065-11	18	1119221	05/14/2024	1120173	05/16/2024
EPA 622	14	1118560	05/09/2024	1120015	05/16/2024

Sample	Sample ID	Taken	Time	Received
2297167	*C4D4860-01*	05/06/2024	00:00:00	05/08/2024

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Bottle 01 Client supplied HCl Clean Metals Bottle
Bottle 02 Client supplied HCl Clean Metals Bottle
Bottle 03 Client supplied HCl Clean Metals Bottle
Bottle 04 Client supplied HCl Clean Metals Bottle
Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1119120) Volume: 1500.00000 mL <== Derived from 02 (500 mL) 03 (500 mL) 01 (500 ml)
Bottle 06 Prepared Bottle: Mercury Preparation for Metals (Batch 1119325) Volume: 50.00000 mL <== Derived from 05 (47 ml) 02 (47 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 245.7 2	06	1119325	05/15/2024	1119481	05/15/2024

Sample	Sample ID	Taken	Time	Received
2297168	*C4D4860-01 FB*	05/06/2024	00:00:00	05/08/2024

Bottle 01 Client supplied HCl Clean Metals Bottle
Bottle 02 Prepared Bottle: Mercury Preparation for Metals (Batch 1119325) Volume: 50.00000 mL <== Derived from 01 (47 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 245.7 2	02	1119325	05/15/2024	1119481	05/15/2024

Sample	Sample ID	Taken	Time	Received
2297169	*C4D4860-02*	05/06/2024	09:30:00	05/08/2024

Bottle 01 Client supplied NaOH
Bottle 02 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1118429) Volume: 10.00000 mL <== Derived from 01 (5 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 4500-CN^- E-2016	02	1118429	05/09/2024	1118591	05/09/2024

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RESULTS

Sample Results

2297153 **C4D4860-01**

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C

Taken: 05/06/2024 00:00:00

ASTM D7065-11 Prepared: 1119221 05/14/2024 13:00:00 Analyzed 1120173 05/16/2024 18:07:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nonylphenol	<30.3	ug/L	30.3		25154-52-3	18

EPA 608.3 Prepared: 1118559 05/10/2024 08:00:00 Analyzed 1119046 05/11/2024 00:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.0105	ug/L	0.0105		72-54-8	13
NELAC	4,4-DDE	<0.0105	ug/L	0.0105		72-55-9	13
NELAC	4,4-DDT	<0.0105	ug/L	0.0105		50-29-3	13
NELAC	Aldrin	0.0184	ug/L	0.010		309-00-2	13
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0105	ug/L	0.0105		319-84-6	13
NELAC	alpha-Chlordane	<0.0105	ug/L	0.0105		5103-71-9	13
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0105	ug/L	0.0105		319-85-7	13
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0105	ug/L	0.0105		319-86-8	13
NELAC	Dieldrin	<0.0105	ug/L	0.0105		60-57-1	13
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	13
NELAC	Endosulfan II (beta)	<0.0105	ug/L	0.0105		33213-65-9	13
NELAC	Endosulfan sulfate	<0.0105	ug/L	0.0105		1031-07-8	13
NELAC	Endrin	<0.0105	ug/L	0.0105		72-20-8	13
NELAC	Endrin aldehyde	<0.0105	ug/L	0.0105		7421-93-4	13
NELAC	Gamma-BHC(Lindane)	<0.0105	ug/L	0.0105	JM	58-89-9	13
NELAC	gamma-Chlordane	<0.0105	ug/L	0.0105		5103-74-2	13
NELAC	Heptachlor	<0.010	ug/L	0.010		76-44-8	13
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	13
z	Kelthane (Dicofol)	<0.105	ug/L	0.105	X	115-32-2	13
NELAC	Methoxychlor	<0.0105	ug/L	0.0105		72-43-5	13
z	Mirex	<0.0158	ug/L	0.0158		2385-85-5	13
NELAC	Toxaphene	<0.211	ug/L	0.211		8001-35-2	13

EPA 608.3 Prepared: 1118565 05/10/2024 08:00:00 Analyzed 1119051 05/11/2024 00:50:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2297153 **C4D4860-01**

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 00:00:00

EPA 608.3 Prepared: 1118565 05/10/2024 08:00:00 Analyzed 1119051 05/11/2024 00:50:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200	X	12674-11-2	15
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	15
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	15
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	15
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	15
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	15
NELAC	PCB-1260	<0.200	ug/L	0.200		11096-82-5	15
NELAC	PCB-1262	<0.211	ug/L	0.211		37324-23-5	15
NELAC	PCB-1268	<0.211	ug/L	0.211		11100-14-4	15

EPA 614 Prepared: 1118560 05/10/2024 08:00:00 Analyzed 1120024 05/16/2024 04:18:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0526	ug/L	0.0526		86-50-0	14
NELAC	Demeton	<0.0526	ug/L	0.0526		8065-48-3	14
NELAC	Diazinon	<0.0526	ug/L	0.0526		333-41-5	14
NELAC	Malathion	<0.0526	ug/L	0.0526		121-75-5	14
NELAC	Parathion, ethyl	<0.0526	ug/L	0.0526		56-38-2	14
NELAC	Parathion, methyl	<0.050	ug/L	0.050		298-00-0	14

EPA 615 Prepared: 1118791 05/10/2024 13:30:00 Analyzed 1119920 05/16/2024 22:24:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.520	ug/L	0.520	SD	94-75-7	16
NELAC	2,4,5-TP (Silvex)	<0.300	ug/L	0.300	S	93-72-1	16

EPA 622 Prepared: 1118560 05/10/2024 08:00:00 Analyzed 1120015 05/16/2024 04:18:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	14

EPA 625.1 Prepared: 1119006 05/13/2024 13:32:29 Analyzed 1119699 05/15/2024 19:23:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.04	ug/L	1.04		95-94-3	17

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2297153 **C4D4860-01**

Received: 05/08/2024

Non-Potable Water | *Collected by:* Client | Eastex Environmental | *PO:* 050724C

Taken: 05/06/2024 00:00:00

EPA 625.1 *Prepared:* 1119006 05/13/2024 13:32:29 *Analyzed* 1119699 05/15/2024 19:23:00 *DWL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4-Trichlorobenzene	<1.04	ug/L	1.04		120-82-1	17
NELAC	1,2-Dichlorobenzene	<1.04	ug/L	1.04		95-50-1	17
NELAC	1,2-DPH (as azobenzene)	<1.04	ug/L	1.04		122-66-7	17
NELAC	1,3-Dichlorobenzene	<1.04	ug/L	1.04		541-73-1	17
NELAC	1,4-Dichlorobenzene	<1.04	ug/L	1.04		106-46-7	17
NELAC	2,4,5-Trichlorophenol	<1.04	ug/L	1.04		95-95-4	17
NELAC	2,4,6-Trichlorophenol	<1.04	ug/L	1.04		88-06-2	17
NELAC	2,4-Dichlorophenol	<1.04	ug/L	1.04		120-83-2	17
NELAC	2,4-Dimethylphenol	<2.49	ug/L	2.49		105-67-9	17
NELAC	2,4-Dinitrophenol	<9.34	ug/L	9.34		51-28-5	17
NELAC	2,4-Dinitrotoluene	<3.63	ug/L	3.63		121-14-2	17
NELAC	2,6-Dinitrotoluene	<1.04	ug/L	1.04		606-20-2	17
NELAC	2-Chloronaphthalene	<1.04	ug/L	1.04		91-58-7	17
NELAC	2-Chlorophenol	<1.04	ug/L	1.04		95-57-8	17
NELAC	2-Methylphenol (o-Cresol)	<5.39	ug/L	5.39		95-48-7	17
NELAC	2-Nitrophenol	<1.04	ug/L	1.04		88-75-5	17
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.43	ug/L	6.43		MEPH34	17
NELAC	3,3'-Dichlorobenzidine	<5.00	ug/L	5.00		91-94-1	17
NELAC	4,6-Dinitro-2-methylphenol	<8.30	ug/L	8.30		534-52-1	17
NELAC	4-Bromophenyl phenyl ether	<1.04	ug/L	1.04		101-55-3	17
NELAC	4-Chlorophenyl phenyl ethe	<1.04	ug/L	1.04		7005-72-3	17
NELAC	4-Nitrophenol	<1.04	ug/L	1.04		100-02-7	17
NELAC	Acenaphthene	<1.04	ug/L	1.04		83-32-9	17
NELAC	Acenaphthylene	<1.04	ug/L	1.04		208-96-8	17
z	Aniline	<1.04	ug/L	1.04	S	62-53-3	17
NELAC	Anthracene	<1.04	ug/L	1.04		120-12-7	17
NELAC	Benzidine	<20.7	ug/L	20.7		92-87-5	17
NELAC	Benzo(a)anthracene	<1.04	ug/L	1.04		56-55-3	17
NELAC	Benzo(a)pyrene	<1.04	ug/L	1.04		50-32-8	17
NELAC	Benzo(b)fluoranthene	<1.04	ug/L	1.04		205-99-2	17
NELAC	Benzo(ghi)perylene	<1.04	ug/L	1.04		191-24-2	17
NELAC	Benzo(k)fluoranthene	<1.04	ug/L	1.04		207-08-9	17
NELAC	Benzyl Butyl phthalate	0.944	ug/L	7.78	J	85-68-7	17
NELAC	Bis(2-chloroethoxy)methane	<1.04	ug/L	1.04		111-91-1	17
NELAC	Bis(2-chloroethyl)ether	<1.04	ug/L	1.04		111-44-4	17
NELAC	Bis(2-chloroisopropyl)ether	<1.04	ug/L	1.04		108-60-1	17

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2297153 **C4D4860-01**

Non-Potable Water | Collected by: Client | Eastex Environmental | Received: 05/08/2024
Taken: 05/06/2024 00:00:00 | PO: 050724C

EPA 625.1

Prepared: 1119006 05/13/2024 13:32:29 Analyzed 1119699 05/15/2024 19:23:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Bis(2-ethylhexyl)phthalate	<7.78	ug/L	7.78		117-81-7	17
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.04	ug/L	1.04		218-01-9	17
NELAC	Dibenz(a,h)anthracene	<1.04	ug/L	1.04		53-70-3	17
NELAC	Diethyl phthalate	<5.91	ug/L	5.91		84-66-2	17
NELAC	Dimethyl phthalate	<4.98	ug/L	4.98		131-11-3	17
NELAC	Di-n-butylphthalate	<7.78	ug/L	7.78		84-74-2	17
NELAC	Di-n-octylphthalate	<1.04	ug/L	1.04		117-84-0	17
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.04	ug/L	1.04		206-44-0	17
NELAC	Fluorene	<1.04	ug/L	1.04		86-73-7	17
NELAC	Hexachlorobenzene	<1.04	ug/L	1.04		118-74-1	17
NELAC	Hexachlorobutadiene	<1.04	ug/L	1.04		87-68-3	17
NELAC	Hexachlorocyclopentadiene	<9.34	ug/L	9.34		77-47-4	17
NELAC	Hexachloroethane	<1.04	ug/L	1.04		67-72-1	17
NELAC	Indeno(1,2,3-cd)pyrene	<1.04	ug/L	1.04		193-39-5	17
NELAC	Isophorone	<1.04	ug/L	1.04		78-59-1	17
NELAC	Naphthalene	<1.04	ug/L	1.04		91-20-3	17
NELAC	Nitrobenzene	<1.04	ug/L	1.04		98-95-3	17
NELAC	n-Nitrosodiethylamine	<1.04	ug/L	1.04		55-18-5	17
NELAC	N-Nitrosodimethylamine	<7.26	ug/L	7.26		62-75-9	17
NELAC	n-Nitroso-di-n-butylamine	<1.04	ug/L	1.04		924-16-3	17
NELAC	N-Nitrosodi-n-propylamine	<1.04	ug/L	1.04		621-64-7	17
NELAC	N-Nitrosodiphenylamine (as DPA	<1.04	ug/L	1.04		86-30-6	17
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.49	ug/L	2.49		59-50-7	17
NELAC	Pentachlorobenzene	<1.04	ug/L	1.04		608-93-5	17
NELAC	Pentachlorophenol	<1.04	ug/L	1.04		87-86-5	17
NELAC	Phenanthrene	<1.04	ug/L	1.04		85-01-8	17
NELAC	Phenol	<1.56	ug/L	1.56		108-95-2	17
NELAC	Pyrene	<1.04	ug/L	1.04		129-00-0	17
NELAC	Pyridine	<5.60	ug/L	5.60		110-86-1	17

EPA 625.1

Prepared: 1119006 05/13/2024 13:32:29 Calculated 1119699 05/17/2024 11:20:48 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<6.43	ug/L	6.43		1319-77-3, etc.	17

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Printed: 05/28/2024

2297153 C4D4860-01

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 00:00:00

EPA 632 Prepared: 1118551 05/10/2024 08:00:00 Analyzed 1120962 05/22/2024 07:34:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.63**	**ug/L**	2.63		**63-25-2**	12
z	**Diuron**	**2.07**	**ug/L**	0.0474		**330-54-1**	12

2297167 C4D4860-01

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 00:00:00

EPA 245.7 2 Prepared: 1119325 05/15/2024 09:30:00 Analyzed 1119481 05/15/2024 13:01:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**0.000856**	**ug/L**	0.00266	J	**7439-97-6**	06

2297168 C4D4860-01 FB

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 00:00:00

EPA 245.7 2 Prepared: 1119325 05/15/2024 09:30:00 Analyzed 1119481 05/15/2024 13:04:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total (low level)**	**<0.00128**	**ug/L**	0.00128		**7439-97-6**	02

2297169 C4D4860-02

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 09:30:00

SM 4500-CN⁻ E-2016 Prepared: 1118429 05/09/2024 07:52:11 Analyzed 1118591 05/09/2024 09:46:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle

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2297169 C4D4860-02

Received: 05/08/2024

Non-Potable Water | Collected by: Client | Eastex Environmental | PO: 050724C
Taken: 05/06/2024 09:30:00

SM 4500-CN⁻ E-2016	*Prepared:*	*1118429*	*05/09/2024*	*07:52:11*	*Analyzed*	*1118591*	*05/09/2024*	*09:46:00*	*AMB*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**10.2**	**ug/L**	5.00			02

Sample Preparation

2297153 C4D4860-01

Received: 05/08/2024

050724C

05/06/2024

	Prepared:		*05/09/2024*	*08:09:10*	*Calculated*		*05/09/2024*	*08:09:10*	*CAL*

z	**Environmental Fee (per Project)**	**Verified**							

ASTM D7065-11	*Prepared:*	*1119221*	*05/14/2024*	*13:00:00*	*Analyzed*	*1120173*	*05/16/2024*	*18:07:00*	*DWL*

z	**Nonyl Phenol Expansion**	**Entered**							18

EPA 608.3	*Prepared:*	*1118559*	*05/10/2024*	*08:00:00*	*Analyzed*	*1118559*	*05/10/2024*	*08:00:00*	*SAB*

	Liquid-Liquid Extr. W/Hex Ex	**1/950**	**ml**						03
EPA 608.3	*Prepared:*	*1118559*	*05/10/2024*	*08:00:00*	*Analyzed*	*1119046*	*05/11/2024*	*00:50:00*	*KAP*

NELAC	**Pesticides Method 608.3 full lis**	**Entered**							13
EPA 608.3	*Prepared:*	*1118560*	*05/10/2024*	*08:00:00*	*Analyzed*	*1118560*	*05/10/2024*	*08:00:00*	*SAB*

	Solvent Extraction	**1/950**	**ml**						03

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2297153 **C4D4860-01** Received: 05/08/2024

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05/06/2024

	EPA 608.3	*Prepared:*	*1118565*	*05/10/2024*	*08:00:00*	*Analyzed*	*1118565*	*05/10/2024*	*08:00:00*	*SAB*
	PCB Liq-Liq Extr. W/Hex Exch.	**1/950**	**ml**							03
	EPA 608.3	*Prepared:*	*1118565*	*05/10/2024*	*08:00:00*	*Analyzed*	*1119051*	*05/11/2024*	*00:50:00*	*KAP*
NELAC	**Polychlorinated Biphenyls**	**Entered**								15
	EPA 614	*Prepared:*	*1118560*	*05/10/2024*	*08:00:00*	*Analyzed*	*1120024*	*05/16/2024*	*04:18:00*	*KAP*
z	**Permit Organophos. Pesticides**	**Entered**								14
	EPA 615	*Prepared:*	*1118791*	*05/10/2024*	*13:30:00*	*Analyzed*	*1118791*	*05/10/2024*	*13:30:00*	*CRS*
NELAC	**Esterification of Sample**	**10/962**	**ml**							10
	EPA 615	*Prepared:*	*1118791*	*05/10/2024*	*13:30:00*	*Analyzed*	*1119920*	*05/16/2024*	*22:24:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								16
	EPA 622	*Prepared:*	*1118560*	*05/10/2024*	*08:00:00*	*Analyzed*	*1120015*	*05/16/2024*	*04:18:00*	*KAP*
NELAC	**For use with EXP 1CPP only**	**Entered**								14
	EPA 625.1	*Prepared:*	*1119006*	*05/13/2024*	*13:32:29*	*Analyzed*	*1119006*	*05/13/2024*	*13:32:29*	*MCC*
	Liquid-Liquid Extraction, BNA	**1/964**	**ml**							08
	EPA 625.1	*Prepared:*	*1119006*	*05/13/2024*	*13:32:29*	*Analyzed*	*1119699*	*05/15/2024*	*19:23:00*	*DWL*
NELAC	**Table D-1/ D-2 Semivolatiles Exp**	**Entered**								17

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2297153 **C4D4860-01** Received: 05/08/2024

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EPA 625.1	*Prepared:*	*1119221*	*05/14/2024*	*13:00:00*	*Analyzed*	*1119221*	*05/14/2024*	*13:00:00*	*MCC*
Nonylphenol Liq-Liq Extract	**1/989**	**ml**							11
EPA 632	*Prepared:*	*1118551*	*05/10/2024*	*08:00:00*	*Analyzed*	*1118551*	*05/10/2024*	*08:00:00*	*SAB*
Liquid-Liquid Extr. W/Hex Ex	**1/950**	**ml**							03
EPA 632	*Prepared:*	*1118551*	*05/10/2024*	*08:00:00*	*Analyzed*	*1120962*	*05/22/2024*	*07:34:00*	*BRU*
NELAC **Carbaryl/Diuron**	**Entered**								12

2297167 **C4D4860-01** Received: 05/08/2024

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05/06/2024

	Prepared:	*1119120*	*05/14/2024*	*09:30:00*	*Analyzed*	*1119120*	*05/14/2024*	*09:30:00*	*MPI*
NELAC **Composite Low Level Hg Bottles**	**Complete**	**4 vials**							01
EPA 245.7 2	*Prepared:*	*1119120*	*05/14/2024*	*09:30:00*	*Analyzed*	*1119325*	*05/15/2024*	*09:30:00*	*MPI*
NELAC **Low Level Mercury Liquid Metals**	**50/47**	**ml**							05

2297168 **C4D4860-01 FB** Received: 05/08/2024

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2297168 C4D4860-01 FB

Received: 05/08/2024

050724C

05/06/2024

EPA 245.7 2	*Prepared:*	*1119325*	*05/15/2024*	*09:30:00*	*Analyzed*	*1119325*	*05/15/2024*	*09:30:00*	*MP1*	
NELAC **Low Level Mercury Liquid Metals**	**50/47**	**ml**								01

2297169 C4D4860-02

Received: 05/08/2024

050724C

05/06/2024

SM 4500-CN⁻ C-2016	*Prepared:*	*1118429*	*05/09/2024*	*07:52:11*	*Analyzed*	*1118429*	*05/09/2024*	*07:52:11*	*MEG*	
NELAC **Cyanide Distillation**	**10/5**	**ml**								01

Qualifiers:

J - Analyte detected below quantitation limit
D - Duplicate RPD was higher than expected
M - High reporting level resulting from matrix interference.
X - Standard reads higher than desired.
S - Standard reads lower than desired

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

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Bill Peery

Bill Peery, MS, VP Technical Services

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Analytical Set 1118591

SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1118429	ND	0.00238	0.005	mg/L	126321346

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.530	0.500	mg/L	106	90.0 - 110	126321321
Cyanide, total	0.527	0.500	mg/L	105	90.0 - 110	126321331
Cyanide, total	0.530	0.500	mg/L	106	90.0 - 110	126321337
Cyanide, total	0.530	0.500	mg/L	106	90.0 - 110	126321342
Cyanide, total	0.531	0.500	mg/L	106	90.0 - 110	126321343
Cyanide, total	0.520	0.500	mg/L	104	90.0 - 110	126321344
Cyanide, total	0.518	0.500	mg/L	104	90.0 - 110	126321345
Cyanide, total	0.524	0.500	mg/L	105	90.0 - 110	126321348
Cyanide, total	0.531	0.500	mg/L	106	90.0 - 110	126321356
Cyanide, total	0.525	0.500	mg/L	105	90.0 - 110	126321357
Cyanide, total	0.523	0.500	mg/L	105	90.0 - 110	126321358

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
Cyanide, total	2296714	ND	0.0042	mg/L	200	*	20.0
Cyanide, total	2296795	0.0084	0.0082	mg/L	2.41		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.203	0.200	mg/L	102	90.0 - 110	126321320

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1118429	0.403	0.411	0.400	90.0 - 110	101	103	mg/L	1.97	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2296714	0.411	0.0042	0.400	mg/L	103	90.0 - 110	126321352
Cyanide, total	2296795	0.418	0.0082	0.400	mg/L	102	90.0 - 110	126321355

Analytical Set 1119481

EPA 245.7 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	5.67	5.00	ng/L	113	70.0 - 130	126340012

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1119325	ND	1.20	5.00	ng/L	126340009

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1119325	1.73	1.20	5.00	ng/L	126340014

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CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1119325	2.45	1.20	5.00	ng/L	126340026
Mercury, Total (low level)	1119325	2.01	1.20	5.00	ng/L	126340038
Mercury, Total (low level)	1119481	1.68	1.20	5.00	ng/L	126340066

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.0	25.0	ng/L	104	87.0 - 113	126340013
Mercury, Total (low level)	26.5	25.0	ng/L	106	87.0 - 113	126340025
Mercury, Total (low level)	26.8	25.0	ng/L	107	87.0 - 113	126340037
Mercury, Total (low level)	26.9	25.0	ng/L	108	87.0 - 113	126340043
Mercury, Total (low level)	26.9	25.0	ng/L	108	87.0 - 113	126340054
Mercury, Total (low level)	27.6	25.0	ng/L	110	87.0 - 113	126340065

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	50.0	50.0	ng/L	100	90.0 - 110	126340007

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	27.2	25.0	ng/L	109	90.0 - 110	126340008

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1119325	27.0	27.4	25.0	76.0 - 115	108	110	ng/L	1.47	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2296946	24.7	24.8	1.86	26.6	63.0 - 111	85.9	86.2	ng/L	0.437	18.0
Mercury, Total (low level)	2297194	27.1	27.7	1.42	26.6	63.0 - 111	96.5	98.8	ng/L	2.31	18.0

Analytical Set 1119033

MSD — EPA 608.3

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
4,4-DDD	2296362	0.390	0.328	ND	0.974	31.0 - 141	40.3	33.9	ug/L	17.3	39.0
4,4-DDE	2296362	0.278	0.207	ND	0.974	30.0 - 145	28.7 *	21.4 *	ug/L	29.3	35.0
4,4-DDT	2296362	0.272	0.244	ND	0.974	25.0 - 160	28.1	25.2	ug/L	10.9	42.0
Aldrin	2296362	0.287	0.215	ND	0.974	42.0 - 140	29.6 *	22.2 *	ug/L	28.7	35.0
Alpha-BHC(hexachlorocyclohexane)	2296362	0.348	0.298	ND	0.974	37.0 - 140	36.0 *	30.8 *	ug/L	15.5	36.0
alpha-Chlordane	2296362	0.392	0.299	ND	0.974	45.0 - 140	40.5 *	30.9 *	ug/L	26.9	35.0
Beta-BHC(hexachlorocyclohexane)	2296362	0.474	0.411	ND	0.974	17.0 - 147	49.0	42.5	ug/L	14.2	44.0
Delta-BHC(hexachlorocyclohexane)	2296362	0.395	0.340	ND	0.974	19.0 - 140	40.8	35.1	ug/L	15.0	52.0
Dieldrin	2296362	0.424	0.363	ND	0.974	36.0 - 146	43.8	37.5	ug/L	15.5	49.0
Endosulfan I (alpha)	2296362	0.379	0.303	ND	0.974	45.0 - 153	39.2 *	31.3 *	ug/L	22.3	28.0
Endosulfan II (beta)	2296362	0.247	0.273	ND	0.974	0.100 - 202	25.5	28.2	ug/L	10.0	53.0
Endosulfan sulfate	2296362	0.316	0.302	ND	0.974	26.0 - 144	32.6	31.2	ug/L	4.53	38.0
Endrin	2296362	0.378	0.331	ND	0.974	30.0 - 147	39.0	34.2	ug/L	13.3	48.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Endrin aldehyde	2296362	0.422	0.374	ND	0.974	37.6 - 158	43.6	38.6	ug/L	12.1	30.0
Gamma-BHC(Lindane)	2296362	0.357	0.304	ND	0.974	32.0 - 140	36.9	31.4 *	ug/L	16.0	39.0
gamma-Chlordane	2296362	0.381	0.287	ND	0.974	45.0 - 140	39.4 *	29.6 *	ug/L	28.1	35.0
Heptachlor	2296362	0.270	0.217	ND	0.974	34.0 - 140	27.9 *	22.4 *	ug/L	21.8	43.0
Heptachlor epoxide	2296362	0.449	0.361	ND	0.974	37.0 - 142	46.4	37.3	ug/L	21.7	26.0
Kelthane (Dicofol)	2296362	1.74	1.46	ND	0.974	70.0 - 130	180 *	151 *	ug/L	17.5	30.0
Methoxychlor	2296362	0.322	0.239	ND	0.974	33.1 - 137	33.3	24.7 *	ug/L	29.6	30.0
Mirex	2296362	0.366	0.307	ND	0.974	70.0 - 130	37.8 *	31.7 *	ug/L	17.5	30.0

Analytical Set 1119046 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1118559	ND	0.731	1.00	ug/L	126330672
4,4-DDE	1118559	ND	0.361	1.00	ug/L	126330672
4,4-DDT	1118559	ND	0.862	1.00	ug/L	126330672
Aldrin	1118559	ND	0.260	1.00	ug/L	126330672
Alpha-BHC(hexachlorocyclohexane)	1118559	ND	0.280	1.00	ug/L	126330672
alpha-Chlordane	1118559	ND	0.615	1.00	ug/L	126330672
Beta-BHC(hexachlorocyclohexane)	1118559	ND	0.579	1.00	ug/L	126330672
Delta-BHC(hexachlorocyclohexane)	1118559	ND	0.898	1.00	ug/L	126330672
Dieldrin	1118559	ND	0.162	1.00	ug/L	126330672
Endosulfan I (alpha)	1118559	ND	0.679	1.00	ug/L	126330672
Endosulfan II (beta)	1118559	ND	0.356	1.00	ug/L	126330672
Endosulfan sulfate	1118559	ND	0.588	1.00	ug/L	126330672
Endrin	1118559	ND	0.538	1.00	ug/L	126330672
Endrin aldehyde	1118559	ND	0.699	1.00	ug/L	126330672
Gamma-BHC(Lindane)	1118559	ND	0.385	1.00	ug/L	126330672
gamma-Chlordane	1118559	ND	0.415	1.00	ug/L	126330672
Heptachlor	1118559	ND	0.207	1.00	ug/L	126330672
Heptachlor epoxide	1118559	ND	0.660	1.00	ug/L	126330672
Kelthane (Dicofol)	1118559	ND	0.0208	0.100	ug/L	126330672
Methoxychlor	1118559	ND	0.898	1.00	ug/L	126330672
Mirex	1118559	ND	0.00889	0.015	ug/L	126330672
Toxaphene	1118559	ND	0.169	0.200	ug/L	126330672

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
4,4-DDD	51.3	50.0	ug/L	103	75.0 - 125	126330671
4,4-DDD	62.6	50.0	ug/L	125	75.0 - 125	126330679
4,4-DDE	48.6	50.0	ug/L	97.2	75.0 - 125	126330671
4,4-DDE	52.5	50.0	ug/L	105	75.0 - 125	126330679
4,4-DDT	51.9	50.0	ug/L	104	75.0 - 125	126330671
4,4-DDT	54.1	50.0	ug/L	108	75.0 - 125	126330679
Aldrin	50.2	50.0	ug/L	100	75.0 - 125	126330671
Aldrin	54.4	50.0	ug/L	109	75.0 - 125	126330679

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Parameter	Reading	Known	Units	Recover%	Limits%		File
Alpha-BHC(hexachlorocyclohexane)	50.1	50.0	ug/L	100	75.0 - 125		126330671
Alpha-BHC(hexachlorocyclohexane)	54.0	50.0	ug/L	108	75.0 - 125		126330679
alpha-Chlordane	49.1	50.0	ug/L	98.2	75.0 - 125		126330671
alpha-Chlordane	55.8	50.0	ug/L	112	75.0 - 125		126330679
Beta-BHC(hexachlorocyclohexane)	48.0	50.0	ug/L	96.0	75.0 - 125		126330671
Beta-BHC(hexachlorocyclohexane)	52.8	50.0	ug/L	106	75.0 - 125		126330679
Delta-BHC(hexachlorocyclohexane)	50.2	50.0	ug/L	100	75.0 - 125		126330671
Delta-BHC(hexachlorocyclohexane)	54.9	50.0	ug/L	110	75.0 - 125		126330679
Dieldrin	50.2	50.0	ug/L	100	75.0 - 125		126330671
Dieldrin	58.7	50.0	ug/L	117	75.0 - 125		126330679
Endosulfan I (alpha)	49.7	50.0	ug/L	99.4	75.0 - 125		126330671
Endosulfan I (alpha)	56.5	50.0	ug/L	113	75.0 - 125		126330679
Endosulfan II (beta)	48.8	50.0	ug/L	97.6	75.0 - 125		126330671
Endosulfan II (beta)	55.9	50.0	ug/L	112	75.0 - 125		126330679
Endosulfan sulfate	46.4	50.0	ug/L	92.8	75.0 - 125		126330671
Endosulfan sulfate	58.3	50.0	ug/L	117	75.0 - 125		126330679
Endrin	50.2	50.0	ug/L	100	75.0 - 125		126330671
Endrin	59.3	50.0	ug/L	119	75.0 - 125		126330679
Endrin aldehyde	47.4	50.0	ug/L	94.8	75.0 - 125		126330671
Endrin aldehyde	52.7	50.0	ug/L	105	75.0 - 125		126330679
Gamma-BHC(Lindane)	49.0	50.0	ug/L	98.0	75.0 - 125		126330671
Gamma-BHC(Lindane)	51.2	50.0	ug/L	102	75.0 - 125		126330679
gamma-Chlordane	49.3	50.0	ug/L	98.6	75.0 - 125		126330671
gamma-Chlordane	55.5	50.0	ug/L	111	75.0 - 125		126330679
Heptachlor	47.1	50.0	ug/L	94.2	75.0 - 125		126330671
Heptachlor	49.5	50.0	ug/L	99.0	75.0 - 125		126330679
Heptachlor epoxide	48.4	50.0	ug/L	96.8	75.0 - 125		126330671
Heptachlor epoxide	56.6	50.0	ug/L	113	75.0 - 125		126330679
Kelthane (Dicofol)	99.7	100	ug/L	99.7	75.0 - 125		126330671
Kelthane (Dicofol)	139	100	ug/L	139	75.0 - 125	*	126330679
Methoxychlor	46.9	50.0	ug/L	93.8	75.0 - 125		126330671
Methoxychlor	51.3	50.0	ug/L	103	75.0 - 125		126330679
Mirex	47.8	50.0	ug/L	95.6	75.0 - 125		126330671
Mirex	59.0	50.0	ug/L	118	75.0 - 125		126330679

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1118559	41.5	41.3	50.0	31.0 - 141	83.0	82.6	ug/L	0.483	39.0
4,4-DDE	1118559	42.0	37.7	50.0	30.0 - 145	84.0	75.4	ug/L	10.8	35.0
4,4-DDT	1118559	40.6	40.5	50.0	25.0 - 160	81.2	81.0	ug/L	0.247	42.0
Aldrin	1118559	40.7	35.8	50.0	42.0 - 140	81.4	71.6	ug/L	12.8	35.0
Alpha-BHC(hexachlorocyclohexane)	1118559	45.9	43.7	50.0	37.0 - 140	91.8	87.4	ug/L	4.91	36.0
alpha-Chlordane	1118559	42.7	39.7	50.0	45.0 - 140	85.4	79.4	ug/L	7.28	35.0
Beta-BHC(hexachlorocyclohexane)	1118559	55.7	54.4	50.0	17.0 - 147	111	109	ug/L	1.82	44.0
Delta-BHC(hexachlorocyclohexane)	1118559	46.7	44.8	50.0	19.0 - 140	93.4	89.6	ug/L	4.15	52.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Dieldrin	1118559	44.0	43.0	50.0	36.0 - 146	88.0	86.0	ug/L	2.30	49.0
Endosulfan I (alpha)	1118559	40.1	38.0	50.0	45.0 - 153	80.2	76.0	ug/L	5.38	28.0
Endosulfan II (beta)	1118559	39.7	39.4	50.0	0.100 - 202	79.4	78.8	ug/L	0.759	53.0
Endosulfan sulfate	1118559	37.9	37.8	50.0	26.0 - 144	75.8	75.6	ug/L	0.264	38.0
Endrin	1118559	45.0	44.2	50.0	30.0 - 147	90.0	88.4	ug/L	1.79	48.0
Endrin aldehyde	1118559	45.0	45.2	50.0	37.6 - 158	90.0	90.4	ug/L	0.443	30.0
Gamma-BHC(Lindane)	1118559	42.9	43.1	50.0	32.0 - 140	85.8	86.2	ug/L	0.465	39.0
gamma-Chlordane	1118559	44.7	41.6	50.0	45.0 - 140	89.4	83.2	ug/L	7.18	35.0
Heptachlor	1118559	38.3	37.5	50.0	34.0 - 140	76.6	75.0	ug/L	2.11	43.0
Heptachlor epoxide	1118559	42.6	41.1	50.0	37.0 - 142	85.2	82.2	ug/L	3.58	26.0
Kelthane (Dicofol)	1118559	0.959	1.05	0.500	70.0 - 130	192 *	210 *	ug/L	8.96	30.0
Methoxychlor	1118559	35.4	34.7	50.0	33.1 - 137	70.8	69.4	ug/L	2.00	30.0
Mirex	1118559	0.640	0.624	0.500	70.0 - 130	128	125	ug/L	2.37	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	624136	CCV	48.7	100	ug/L	48.7	0.100 - 144	126330671
Decachlorobiphenyl	624136	CCV	52.8	100	ug/L	52.8	0.100 - 144	126330679
Tetrachloro-m-Xylene (Surr)	624136	CCV	46.3	100	ug/L	46.3	0.100 - 107	126330671
Tetrachloro-m-Xylene (Surr)	624136	CCV	45.3	100	ug/L	45.3	0.100 - 107	126330679
Decachlorobiphenyl	1118559	Blank	60.4	100	ug/L	60.4	0.100 - 144	126330672
Decachlorobiphenyl	1118559	LCS	91.9	100	ug/L	91.9	0.100 - 144	126330673
Tetrachloro-m-Xylene (Surr)	1118559	LCS Dup	80.7	100	ug/L	80.7	0.100 - 144	126330674
Tetrachloro-m-Xylene (Surr)	1118559	Blank	39.2	100	ug/L	39.2	0.100 - 107	126330672
Tetrachloro-m-Xylene (Surr)	1118559	LCS	52.0	100	ug/L	52.0	0.100 - 107	126330673
Decachlorobiphenyl	1118559	LCS Dup	47.7	100	ug/L	47.7	0.100 - 107	126330674
Tetrachloro-m-Xylene (Surr)	2297153	Unknown	0.0705	0.105	ug/L	67.1	0.100 - 144	126330678
	2297153	Unknown	0.0447	0.105	ug/L	42.6	0.100 - 107	126330678

Analytical Set 1119051

EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1118565	ND	0.202	0.202	ug/L	126330784
PCB-1221	1118565	ND	0.143	0.200	ug/L	126330784
PCB-1232	1118565	ND	0.143	0.200	ug/L	126330784
PCB-1242	1118565	ND	0.192	0.200	ug/L	126330784
PCB-1248	1118565	ND	0.143	0.200	ug/L	126330784
PCB-1254	1118565	ND	0.143	0.200	ug/L	126330784
PCB-1260	1118565	ND	0.161	0.200	ug/L	126330784
PCB-1262	1118565	ND	0.198	0.200	ug/L	126330784
PCB-1268	1118565	ND	0.143	0.200	ug/L	126330784

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	1120	1000	ug/L	112	80.0 - 115	126330783

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Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1160	1000	ug/L	116	80.0 - 115	*	126330791
PCB-1016	1140	1000	ug/L	114	80.0 - 115		126330794
PCB-1260	924	1000	ug/L	92.4	80.0 - 115		126330783
PCB-1260	954	1000	ug/L	95.4	80.0 - 115		126330791
PCB-1260	924	1000	ug/L	92.4	80.0 - 115		126330794

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1118565	797	620	1000	39.8 - 135	79.7	62.0	ug/L	25.0	30.0
PCB-1260	1118565	697	557	1000	36.1 - 134	69.7	55.7	ug/L	22.3	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1118565	Blank	60.4	100	ug/L	60.4	10.0 - 200	126330784
Tetrachloro-m-Xylene (Surr)	1118565	Blank	39.2	100	ug/L	39.2	10.0 - 200	126330784

Analytical Set 1119681

ASTM D7065-11

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1119221	ND	5.00	30.0	ug/L	126343748

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1119221	142	147	150	56.0 - 112	94.7	98.0	ug/L	3.43	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nonylphenol	2294826	125	116	ND	145	56.0 - 112	86.2	80.0	ug/L	7.47	22.0

Analytical Set 1119699

EPA 625.1

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1119006	ND	0.517	1.00	ug/L	126343868
1,2,4-Trichlorobenzene	1119006	ND	0.720	1.00	ug/L	126343868
1,2-Dichlorobenzene	1119006	ND	0.598	1.00	ug/L	126343868
1,2-DPH (as azobenzene)	1119006	ND	0.695	1.00	ug/L	126343868
1,3-Dichlorobenzene	1119006	ND	0.686	1.00	ug/L	126343868
1,4-Dichlorobenzene	1119006	ND	0.633	1.00	ug/L	126343868
2,4,5-Trichlorophenol	1119006	ND	0.734	1.00	ug/L	126343868
2,4,6-Trichlorophenol	1119006	ND	0.704	1.00	ug/L	126343868
2,4-Dichlorophenol	1119006	ND	0.567	1.00	ug/L	126343868
2,4-Dimethylphenol	1119006	ND	2.32	2.40	ug/L	126343868
2,4-Dinitrophenol	1119006	ND	8.07	9.00	ug/L	126343868
2,4-Dinitrotoluene	1119006	ND	3.35	3.50	ug/L	126343868
2,6-Dinitrotoluene	1119006	ND	0.675	1.00	ug/L	126343868
2-Chloronaphthalene	1119006	ND	0.333	1.00	ug/L	126343868

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
2-Chlorophenol	1119006	ND	0.367	1.00	ug/L	126343868
2-Methylphenol (o-Cresol)	1119006	ND	5.13	5.20	ug/L	126343868
2-Nitrophenol	1119006	ND	0.495	1.00	ug/L	126343868
3&4-Methylphenol (m&p-Cresol)	1119006	ND	6.15	6.20	ug/L	126343868
3,3'-Dichlorobenzidine	1119006	ND	4.79	5.00	ug/L	126343868
4,6-Dinitro-2-methylphenol	1119006	ND	7.88	8.00	ug/L	126343868
4-Bromophenyl phenyl ether	1119006	ND	0.311	1.00	ug/L	126343868
4-Chlorophenyl phenyl ethe	1119006	ND	0.281	1.00	ug/L	126343868
4-Nitrophenol	1119006	ND	0.932	1.00	ug/L	126343868
Acenaphthene	1119006	ND	0.139	1.00	ug/L	126343868
Acenaphthylene	1119006	ND	0.202	1.00	ug/L	126343868
Aniline	1119006	ND	0.367	1.00	ug/L	126343868
Anthracene	1119006	ND	0.538	1.00	ug/L	126343868
Benzidine	1119006	ND	19.9	20.0	ug/L	126343868
Benzo(a)anthracene	1119006	ND	0.627	1.00	ug/L	126343868
Benzo(a)pyrene	1119006	ND	0.478	1.00	ug/L	126343868
Benzo(b)fluoranthene	1119006	ND	0.517	1.00	ug/L	126343868
Benzo(ghi)perylene	1119006	ND	0.750	1.00	ug/L	126343868
Benzo(k)fluoranthene	1119006	ND	0.763	1.00	ug/L	126343868
Benzyl Butyl phthalate	1119006	1.08	0.696	7.50	ug/L	126343868
Bis(2-chloroethoxy)methane	1119006	ND	0.312	1.00	ug/L	126343868
Bis(2-chloroethyl)ether	1119006	ND	0.434	1.00	ug/L	126343868
Bis(2-chloroisopropyl)ether	1119006	ND	0.448	1.00	ug/L	126343868
Bis(2-ethylhexyl)phthalate	1119006	ND	1.63	7.50	ug/L	126343868
Chrysene (Benzo(a)phenanthrene)	1119006	ND	0.575	1.00	ug/L	126343868
Dibenz(a,h)anthracene	1119006	ND	0.872	1.00	ug/L	126343868
Diethyl phthalate	1119006	ND	0.721	5.70	ug/L	126343868
Dimethyl phthalate	1119006	ND	0.497	4.80	ug/L	126343868
Di-n-butylphthalate	1119006	ND	0.834	7.50	ug/L	126343868
Di-n-octylphthalate	1119006	ND	0.782	1.00	ug/L	126343868
Fluoranthene(Benzo(j,k)fluorene)	1119006	ND	0.772	1.00	ug/L	126343868
Fluorene	1119006	ND	0.512	1.00	ug/L	126343868
Hexachlorobenzene	1119006	ND	0.187	1.00	ug/L	126343868
Hexachlorobutadiene	1119006	ND	0.618	1.00	ug/L	126343868
Hexachlorocyclopentadiene	1119006	ND	8.69	9.00	ug/L	126343868
Hexachloroethane	1119006	ND	0.789	1.00	ug/L	126343868
Indeno(1,2,3-cd)pyrene	1119006	ND	0.793	1.00	ug/L	126343868
Isophorone	1119006	ND	0.468	1.00	ug/L	126343868
Naphthalene	1119006	ND	0.387	1.00	ug/L	126343868
Nitrobenzene	1119006	ND	0.390	1.00	ug/L	126343868
n-Nitrosodiethylamine	1119006	ND	0.282	1.00	ug/L	126343868
N-Nitrosodimethylamine	1119006	ND	6.64	7.00	ug/L	126343868
n-Nitroso-di-n-butylamine	1119006	ND	0.403	1.00	ug/L	126343868
N-Nitrosodi-n-propylamine	1119006	ND	0.777	1.00	ug/L	126343868
N-Nitrosodiphenylamine (as DPA	1119006	ND	0.427	1.00	ug/L	126343868

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
p-Chloro-m-Cresol (4-Chloro-3-me	1119006	ND	2.35	2.40	ug/L	126343868
Pentachlorobenzene	1119006	ND	0.420	1.00	ug/L	126343868
Pentachlorophenol	1119006	ND	0.129	1.00	ug/L	126343868
Phenanthrene	1119006	ND	0.624	1.00	ug/L	126343868
Phenol	1119006	ND	1.50	1.50	ug/L	126343868
Pyrene	1119006	ND	0.587	1.00	ug/L	126343868
Pyridine	1119006	ND	5.33	5.40	ug/L	126343868

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	50600	50000	ug/L	101	60.0 - 140	126343867
1,2,4-Trichlorobenzene	50700	50000	ug/L	101	61.0 - 130	126343867
1,2-Dichlorobenzene	49100	50000	ug/L	98.2	60.0 - 140	126343867
1,2-DPH (as azobenzene)	46800	50000	ug/L	93.6	60.0 - 140	126343867
1,3-Dichlorobenzene	48800	50000	ug/L	97.6	60.0 - 140	126343867
1,4-Dichlorobenzene	49700	50000	ug/L	99.4	60.0 - 140	126343867
2,4,5-Trichlorophenol	52800	50000	ug/L	106	69.0 - 130	126343867
2,4,6-Trichlorophenol	53900	50000	ug/L	108	69.0 - 130	126343867
2,4-Dichlorophenol	50900	50000	ug/L	102	64.0 - 130	126343867
2,4-Dimethylphenol	43200	50000	ug/L	86.4	58.0 - 130	126343867
2,4-Dinitrophenol	48500	50000	ug/L	97.0	39.0 - 173	126343867
2,4-Dinitrotoluene	51500	50000	ug/L	103	53.0 - 130	126343867
2,6-Dinitrotoluene	55000	50000	ug/L	110	68.0 - 137	126343867
2-Chloronaphthalene	47000	50000	ug/L	94.0	70.0 - 130	126343867
2-Chlorophenol	51000	50000	ug/L	102	55.0 - 130	126343867
2-Methylphenol (o-Cresol)	45400	50000	ug/L	90.8	60.0 - 140	126343867
2-Nitrophenol	52400	50000	ug/L	105	61.0 - 163	126343867
3&4-Methylphenol (m&p-Cresol)	48100	50000	ug/L	96.2	60.0 - 140	126343867
3,3'-Dichlorobenzidine	44600	50000	ug/L	89.2	18.0 - 213	126343867
4,6-Dinitro-2-methylphenol	51000	50000	ug/L	102	56.0 - 130	126343867
4-Bromophenyl phenyl ether	52200	50000	ug/L	104	70.0 - 130	126343867
4-Chlorophenyl phenyl ethe	51600	50000	ug/L	103	57.0 - 145	126343867
4-Nitrophenol	43800	50000	ug/L	87.6	35.0 - 135	126343867
Acenaphthene	51600	50000	ug/L	103	70.0 - 130	126343867
Acenaphthylene	52200	50000	ug/L	104	60.0 - 130	126343867
Aniline	46200	50000	ug/L	92.4	60.0 - 140	126343867
Anthracene	51400	50000	ug/L	103	58.0 - 130	126343867
Benzidine	23600	50000	ug/L	47.2	20.0 - 180	126343867
Benzo(a)anthracene	53000	50000	ug/L	106	42.0 - 133	126343867
Benzo(a)pyrene	53100	50000	ug/L	106	32.0 - 148	126343867
Benzo(b)fluoranthene	53300	50000	ug/L	107	42.0 - 140	126343867
Benzo(ghi)perylene	48800	50000	ug/L	97.6	13.0 - 195	126343867
Benzo(k)fluoranthene	53800	50000	ug/L	108	25.0 - 146	126343867
Benzyl Butyl phthalate	49000	50000	ug/L	98.0	43.0 - 140	126343867
Bis(2-chloroethoxy)methane	48000	50000	ug/L	96.0	52.0 - 164	126343867

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Bis(2-chloroethyl)ether	44000	50000	ug/L	88.0	52.0 - 130	126343867
Bis(2-chloroisopropyl)ether	45200	50000	ug/L	90.4	63.0 - 139	126343867
Bis(2-ethylhexyl)phthalate	52400	50000	ug/L	105	43.0 - 137	126343867
Chrysene (Benzo(a)phenanthrene)	53100	50000	ug/L	106	44.0 - 140	126343867
Dibenz(a,h)anthracene	46100	50000	ug/L	92.2	13.0 - 200	126343867
Diethyl phthalate	51500	50000	ug/L	103	47.0 - 130	126343867
Dimethyl phthalate	52400	50000	ug/L	105	50.0 - 130	126343867
Di-n-butylphthalate	48300	50000	ug/L	96.6	52.0 - 130	126343867
Di-n-octylphthalate	64900	50000	ug/L	130	21.0 - 132	126343867
Fluoranthene(Benzo(j,k)fluorene)	50500	50000	ug/L	101	47.0 - 130	126343867
Fluorene	54600	50000	ug/L	109	70.0 - 130	126343867
Hexachlorobenzene	53300	50000	ug/L	107	38.0 - 142	126343867
Hexachlorobutadiene	48900	50000	ug/L	97.8	68.0 - 130	126343867
Hexachlorocyclopentadiene	48300	50000	ug/L	96.6	60.0 - 140	126343867
Hexachloroethane	43100	50000	ug/L	86.2	55.0 - 130	126343867
Indeno(1,2,3-cd)pyrene	45400	50000	ug/L	90.8	13.0 - 151	126343867
Isophorone	49600	50000	ug/L	99.2	52.0 - 180	126343867
Naphthalene	49500	50000	ug/L	99.0	70.0 - 130	126343867
Nitrobenzene	46900	50000	ug/L	93.8	54.0 - 158	126343867
n-Nitrosodiethylamine	47000	50000	ug/L	94.0	60.0 - 140	126343867
N-Nitrosodimethylamine	40100	50000	ug/L	80.2	60.0 - 140	126343867
n-Nitroso-di-n-butylamine	43400	50000	ug/L	86.8	60.0 - 140	126343867
N-Nitrosodi-n-propylamine	46600	50000	ug/L	93.2	59.0 - 170	126343867
N-Nitrosodiphenylamine (as DPA	47200	50000	ug/L	94.4	60.0 - 140	126343867
p-Chloro-m-Cresol (4-Chloro-3-me	42000	50000	ug/L	84.0	68.0 - 130	126343867
Pentachlorobenzene	48700	50000	ug/L	97.4	60.0 - 140	126343867
Pentachlorophenol	51700	50000	ug/L	103	42.0 - 152	126343867
Phenanthrene	50400	50000	ug/L	101	67.0 - 130	126343867
Phenol	48400	50000	ug/L	96.8	48.0 - 130	126343867
Pyrene	50500	50000	ug/L	101	70.0 - 130	126343867
Pyridine	45300	50000	ug/L	90.6	60.0 - 140	126343867

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	624702	198	36210	55.8	40.0 - 60.0	126343866
DFTPP Mass 197	624702	198	0	0.0	0 - 1.00	126343866
DFTPP Mass 198	624702	198	64870	100.0	100 - 100	126343866
DFTPP Mass 199	624702	198	4520	7.0	5.00 - 9.00	126343866
DFTPP Mass 275	624702	198	17069	26.3	10.0 - 30.0	126343866
DFTPP Mass 365	624702	198	4457	6.9	1.00 - 100	126343866
DFTPP Mass 441	624702	443	5866	77.3	0 - 100	126343866
DFTPP Mass 442	624702	198	37309	57.5	40.0 - 100	126343866
DFTPP Mass 443	624702	442	7589	20.3	17.0 - 23.0	126343866
DFTPP Mass 51	624702	198	32461	50.0	30.0 - 60.0	126343866
DFTPP Mass 68	624702	69.0	264	0.9	0 - 2.00	126343866

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DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 69	624702	198	29715	45.8	0 - 100	126343866
DFTPP Mass 70	624702	69.0	121	0.4	0 - 2.00	126343866

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1119006	18.1	16.3	25.0	27.5 - 85.5	72.4	65.2	ug/L	10.5	50.0
1,2,4-Trichlorobenzene	1119006	15.0	14.7	25.0	44.0 - 142	60.0	58.8	ug/L	2.02	50.0
1,2-Dichlorobenzene	1119006	13.1	13.6	25.0	23.0 - 81.8	52.4	54.4	ug/L	3.75	50.0
1,2-DPH (as azobenzene)	1119006	23.4	21.0	25.0	12.6 - 110	93.6	84.0	ug/L	10.8	50.0
1,3-Dichlorobenzene	1119006	12.3	13.1	25.0	21.1 - 80.5	49.2	52.4	ug/L	6.30	50.0
1,4-Dichlorobenzene	1119006	12.2	13.4	25.0	21.4 - 76.9	48.8	53.6	ug/L	9.38	50.0
2,4,5-Trichlorophenol	1119006	21.0	19.7	25.0	51.3 - 109	84.0	78.8	ug/L	6.39	50.0
2,4,6-Trichlorophenol	1119006	21.6	19.9	25.0	37.0 - 144	86.4	79.6	ug/L	8.19	58.0
2,4-Dichlorophenol	1119006	18.9	18.5	25.0	39.0 - 135	75.6	74.0	ug/L	2.14	50.0
2,4-Dimethylphenol	1119006	11.4	6.86	25.0	23.0 - 120	45.6	27.4	ug/L	49.9	68.0
2,4-Dinitrophenol	1119006	11.8	12.2	25.0	0.100 - 191	47.2	48.8	ug/L	3.33	132
2,4-Dinitrotoluene	1119006	15.3	15.9	25.0	39.0 - 139	61.2	63.6	ug/L	3.85	42.0
2,6-Dinitrotoluene	1119006	18.7	18.4	25.0	50.0 - 158	74.8	73.6	ug/L	1.62	48.0
2-Chloronaphthalene	1119006	19.9	18.0	25.0	60.0 - 120	79.6	72.0	ug/L	10.0	24.0
2-Chlorophenol	1119006	16.8	17.2	25.0	23.0 - 134	67.2	68.8	ug/L	2.35	61.0
2-Methylphenol (o-Cresol)	1119006	15.5	15.1	25.0	38.9 - 76.1	62.0	60.4	ug/L	2.61	50.0
2-Nitrophenol	1119006	19.8	18.8	25.0	29.0 - 182	79.2	75.2	ug/L	5.18	55.0
3&4-Methylphenol (m&p-Cresol)	1119006	13.9	13.6	25.0	33.0 - 70.4	55.6	54.4	ug/L	2.18	50.0
3,3'-Dichlorobenzidine	1119006	24.4	23.0	25.0	0.100 - 262	97.6	92.0	ug/L	5.91	108
4,6-Dinitro-2-methylphenol	1119006	18.5	16.2	25.0	0.100 - 181	74.0	64.8	ug/L	13.3	203
4-Bromophenyl phenyl ether	1119006	23.2	20.0	25.0	53.0 - 127	92.8	80.0	ug/L	14.8	43.0
4-Chlorophenyl phenyl ethe	1119006	19.6	18.9	25.0	25.0 - 158	78.4	75.6	ug/L	3.64	61.0
4-Nitrophenol	1119006	6.49	6.32	25.0	0.100 - 132	26.0	25.3	ug/L	2.73	131
Acenaphthene	1119006	18.2	17.1	25.0	47.0 - 145	72.8	68.4	ug/L	6.23	48.0
Acenaphthylene	1119006	18.6	17.3	25.0	33.0 - 145	74.4	69.2	ug/L	7.24	74.0
Aniline	1119006	15.2	17.2	25.0	70.0 - 130	60.8 *	68.8 *	ug/L	12.3	50.0
Anthracene	1119006	19.2	17.8	25.0	27.0 - 133	76.8	71.2	ug/L	7.57	66.0
Benzidine	1119006	5.94	2.57	25.0	0.100 - 36.9	23.8	10.3	ug/L	79.2	90.0
Benzo(a)anthracene	1119006	21.2	19.2	25.0	33.0 - 143	84.8	76.8	ug/L	9.90	53.0
Benzo(a)pyrene	1119006	21.4	20.3	25.0	17.0 - 163	85.6	81.2	ug/L	5.28	72.0
Benzo(b)fluoranthene	1119006	21.5	19.8	25.0	24.0 - 159	86.0	79.2	ug/L	8.23	71.0
Benzo(ghi)perylene	1119006	20.8	18.2	25.0	0.100 - 219	83.2	72.8	ug/L	13.3	97.0
Benzo(k)fluoranthene	1119006	22.0	21.8	25.0	11.0 - 162	88.0	87.2	ug/L	0.913	63.0
Benzyl Butyl phthalate	1119006	17.6	16.3	25.0	0.100 - 152	70.4	65.2	ug/L	7.67	60.0
Bis(2-chloroethoxy)methane	1119006	18.4	17.6	25.0	33.0 - 184	73.6	70.4	ug/L	4.44	54.0
Bis(2-chloroethyl)ether	1119006	16.4	16.7	25.0	12.0 - 158	65.6	66.8	ug/L	1.81	108
Bis(2-chloroisopropyl)ether	1119006	15.3	15.4	25.0	36.0 - 166	61.2	61.6	ug/L	0.651	76.0
Bis(2-ethylhexyl)phthalate	1119006	18.2	16.4	25.0	8.00 - 158	72.8	65.6	ug/L	10.4	82.0
Chrysene (Benzo(a)phenanthrene)	1119006	22.6	20.7	25.0	17.0 - 168	90.4	82.8	ug/L	8.78	87.0
Dibenz(a,h)anthracene	1119006	19.8	17.1	25.0	0.100 - 227	79.2	68.4	ug/L	14.6	126

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Diethyl phthalate	1119006	17.2	17.2	25.0	0.100 - 120	68.8	68.8	ug/L	0	100
Dimethyl phthalate	1119006	18.7	18.2	25.0	0.100 - 120	74.8	72.8	ug/L	2.71	183
Di-n-butylphthalate	1119006	21.4	16.7	25.0	1.00 - 120	85.6	66.8	ug/L	24.7	47.0
Di-n-octylphthalate	1119006	16.9	17.1	25.0	4.00 - 146	67.6	68.4	ug/L	1.18	69.0
Fluoranthene(Benzo(j,k)fluorene)	1119006	21.2	15.5	25.0	26.0 - 137	84.8	62.0	ug/L	31.1	66.0
Fluorene	1119006	16.3	16.9	25.0	59.0 - 121	65.2	67.6	ug/L	3.61	38.0
Hexachlorobenzene	1119006	21.0	19.1	25.0	0.100 - 152	84.0	76.4	ug/L	9.48	55.0
Hexachlorobutadiene	1119006	13.0	12.7	25.0	24.0 - 120	52.0	50.8	ug/L	2.33	62.0
Hexachlorocyclopentadiene	1119006	11.3	10.2	25.0	3.97 - 68.7	45.2	40.8	ug/L	10.2	50.0
Hexachloroethane	1119006	10.3	11.0	25.0	40.0 - 120	41.2	44.0	ug/L	6.57	52.0
Indeno(1,2,3-cd)pyrene	1119006	20.4	17.1	25.0	0.100 - 171	81.6	68.4	ug/L	17.6	99.0
Isophorone	1119006	17.1	16.6	25.0	21.0 - 196	68.4	66.4	ug/L	2.97	93.0
Naphthalene	1119006	16.1	15.4	25.0	21.0 - 133	64.4	61.6	ug/L	4.44	65.0
Nitrobenzene	1119006	18.0	17.4	25.0	35.0 - 180	72.0	69.6	ug/L	3.39	62.0
n-Nitrosodiethylamine	1119006	16.8	17.6	25.0	18.0 - 100	67.2	70.4	ug/L	4.65	50.0
N-Nitrosodimethylamine	1119006	10.7	12.4	25.0	30.2 - 74.9	42.8	49.6	ug/L	14.7	50.0
n-Nitroso-di-n-butylamine	1119006	17.4	17.2	25.0	48.4 - 98.5	69.6	68.8	ug/L	1.16	50.0
N-Nitrosodi-n-propylamine	1119006	16.0	16.6	25.0	0.100 - 230	64.0	66.4	ug/L	3.68	87.0
N-Nitrosodiphenylamine (as DPA	1119006	21.1	19.5	25.0	49.3 - 94.2	84.4	78.0	ug/L	7.88	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1119006	17.2	16.2	25.0	22.0 - 147	68.8	64.8	ug/L	5.99	70.0
Pentachlorobenzene	1119006	16.8	16.4	25.0	39.3 - 93.7	67.2	65.6	ug/L	2.41	50.0
Pentachlorophenol	1119006	19.2	17.0	25.0	14.0 - 176	76.8	68.0	ug/L	12.2	86.0
Phenanthrene	1119006	19.8	18.3	25.0	54.0 - 120	79.2	73.2	ug/L	7.87	39.0
Phenol	1119006	7.40	7.84	25.0	5.00 - 120	29.6	31.4	ug/L	5.90	64.0
Pyrene	1119006	20.2	19.3	25.0	52.0 - 120	80.8	77.2	ug/L	4.56	49.0
Pyridine	1119006	8.45	7.44	25.0	11.2 - 50.6	33.8	29.8	ug/L	12.6	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	624579	CCV	52600	100000	ug/L	52.6	10.0 - 150	126343867
2-Fluorophenol-SURR	624579	CCV	51200	100000	ug/L	51.2	10.0 - 150	126343867
4-Terphenyl-d14-SURR	624579	CCV	48800	50000	ug/L	97.6	30.0 - 150	126343867
Nitrobenzene-d5-SURR	624579	CCV	47600	50000	ug/L	95.2	30.0 - 150	126343867
Phenol-d6-SURR	624579	CCV	50700	100000	ug/L	50.7	10.0 - 150	126343867
2,4,6-Tribromophenol	1119006	Blank	64.5	100	ug/L	64.5	10.0 - 150	126343868
2,4,6-Tribromophenol	1119006	LCS	78.0	100	ug/L	78.0	10.0 - 150	126343869
2,4,6-Tribromophenol	1119006	LCS Dup	80.4	100	ug/L	80.4	10.0 - 150	126343870
2-Fluorophenol-SURR	1119006	Blank	42200	100000	ug/L	42.2	10.0 - 150	126343868
2-Fluorophenol-SURR	1119006	LCS	53200	100000	ug/L	53.2	10.0 - 150	126343869
2-Fluorophenol-SURR	1119006	LCS Dup	54700	100000	ug/L	54.7	10.0 - 150	126343870
4-Terphenyl-d14-SURR	1119006	Blank	34800	50000	ug/L	69.6	30.0 - 150	126343868
4-Terphenyl-d14-SURR	1119006	LCS	31600	50000	ug/L	63.2	30.0 - 150	126343869
4-Terphenyl-d14-SURR	1119006	LCS Dup	29900	50000	ug/L	59.8	30.0 - 150	126343870
Nitrobenzene-d5-SURR	1119006	Blank	37300	50000	ug/L	74.6	30.0 - 150	126343868
Nitrobenzene-d5-SURR	1119006	LCS	33400	50000	ug/L	66.8	30.0 - 150	126343869

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Surrogate — EPA 615

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Nitrobenzene-d5-SURR	1119006	LCS Dup	30700	50000	ug/L	61.4	30.0 - 150	126343870
Phenol-d6-SURR	1119006	Blank	27500	100000	ug/L	27.5	10.0 - 150	126343868
Phenol-d6-SURR	1119006	LCS	36600	100000	ug/L	36.6	10.0 - 150	126343869
Phenol-d6-SURR	1119006	LCS Dup	37600	100000	ug/L	37.6	10.0 - 150	126343870
2,4,6-Tribromophenol	2297153	Unknown	66.4	104	ug/L	63.8	10.0 - 150	126343871
2-Fluorophenol-SURR	2297153	Unknown	48.4	104	ug/L	46.5	10.0 - 150	126343871
4-Terphenyl-d14-SURR	2297153	Unknown	36.0	51.9	ug/L	69.4	30.0 - 150	126343871
Nitrobenzene-d5-SURR	2297153	Unknown	38.8	51.9	ug/L	74.8	30.0 - 150	126343871
Phenol-d6-SURR	2297153	Unknown	41.0	104	ug/L	39.4	10.0 - 150	126343871

Analytical Set 1119920

Blank — EPA 615

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1118791	ND	0.159	0.500	ug/L	126347764
2,4,5-TP (Silvex)	1118791	ND	0.0893	0.300	ug/L	126347764

CCV — EPA 615

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	157	150	ug/L	105	80.0 - 115		126347763
2,4 Dichlorophenoxyacetic acid	96.2	150	ug/L	64.2	80.0 - 115	*	126347767
2,4 Dichlorophenoxyacetic acid	134	150	ug/L	89.7	80.0 - 115		126347775
2,4,5-TP (Silvex)	127	150	ug/L	84.8	80.0 - 115		126347779
2,4,5-TP (Silvex)	167	150	ug/L	111	80.0 - 115		126347763
2,4,5-TP (Silvex)	85.4	150	ug/L	56.9	80.0 - 115	*	126347767
2,4,5-TP (Silvex)	122	150	ug/L	81.3	80.0 - 115		126347775
	104	150	ug/L	69.1	80.0 - 115	*	126347779

LCS Dup — EPA 615

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1118791	0.986	0.503	1.00	0.100 - 319	98.6	50.3	ug/L	64.9 *	30.0
2,4,5-TP (Silvex)	1118791	0.681	0.592	1.00	0.100 - 244	68.1	59.2	ug/L	14.0	30.0

Surrogate — EPA 622

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	158	200	ug/L	79.0	0.100 - 313	126347763
2,4-Dichlorophenylacetic Acid		CCV	111	200	ug/L	55.5	0.100 - 313	126347767
2,4-Dichlorophenylacetic Acid		CCV	145	200	ug/L	72.5	0.100 - 313	126347775
2,4-Dichlorophenylacetic Acid		CCV	149	200	ug/L	74.5	0.100 - 313	126347779
2,4-Dichlorophenylacetic Acid	1118791	Blank	52.6	200	ug/L	26.3	0.100 - 313	126347764
2,4-Dichlorophenylacetic Acid	1118791	LCS	257	200	ug/L	128	0.100 - 313	126347765
2,4-Dichlorophenylacetic Acid	1118791	LCS Dup	174	200	ug/L	87.0	0.100 - 313	126347766
	2297153	Unknown	0.157	2.08	ug/L	7.55	0.100 - 313	126347847

Analytical Set 1120015

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chlorpyrifos	1118560	ND	0.0904	50.0	ug/L	126350002

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1040	1000	ug/L	104	48.0 - 150	126350001
Chlorpyrifos	1040	1000	ug/L	104	48.0 - 150	126350006
Chlorpyrifos	1030	1000	ug/L	103	48.0 - 150	126350008
Chlorpyrifos	974	1000	ug/L	97.4	48.0 - 150	126350016
Chlorpyrifos	962	1000	ug/L	96.2	48.0 - 150	126350021

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chlorpyrifos	1118560	444	483	1000	0.100 - 128	44.4	48.3	ug/L	8.41	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1090	1000	ug/L	109	0.100 - 115	126350001
Tributylphosphate		CCV	1070	1000	ug/L	107	0.100 - 115	126350006
Tributylphosphate		CCV	1100	1000	ug/L	110	0.100 - 115	126350008
Tributylphosphate		CCV	1050	1000	ug/L	105	0.100 - 115	126350016
Triphenylphosphate		CCV	1040	1000	ug/L	104	0.100 - 115	126350021
Triphenylphosphate		CCV	1110	1000	ug/L	111	0.100 - 115	126350001
Triphenylphosphate		CCV	1570	1000	ug/L	157 *	0.100 - 115	126350006
Triphenylphosphate		CCV	2020	1000	ug/L	202 *	0.100 - 115	126350008
Triphenylphosphate		CCV	1930	1000	ug/L	193 *	0.100 - 115	126350016
Tributylphosphate		CCV	2080	1000	ug/L	208 *	0.100 - 115	126350021
Tributylphosphate	1118560	Blank	393	1000	ug/L	39.3	0.100 - 115	126350002
Tributylphosphate	1118560	LCS	475	1000	ug/L	47.5	0.100 - 115	126350003
Triphenylphosphate	1118560	LCS Dup	557	1000	ug/L	55.7	0.100 - 115	126350004
Triphenylphosphate	1118560	Blank	359	1000	ug/L	35.9	0.100 - 115	126350002
Triphenylphosphate	1118560	LCS	409	1000	ug/L	40.9	0.100 - 115	126350003
Triphenylphosphate	1118560	LCS Dup	471	1000	ug/L	47.1	0.100 - 115	126350004

Analytical Set 1120024

EPA 614

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1118560	ND	41.4	50.0	ug/L	126350175
Demeton	1118560	ND	31.9	50.0	ug/L	126350175
Diazinon	1118560	ND	19.7	50.0	ug/L	126350175
Malathion	1118560	ND	24.8	50.0	ug/L	126350175
Parathion, ethyl	1118560	ND	23.9	50.0	ug/L	126350175
Parathion, methyl	1118560	ND	27.4	50.0	ug/L	126350175

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1060	1000	ug/L	106	37.5 - 164	126350174

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

EEL3-G

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Project 1102507

Printed 05/28/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1310	1000	ug/L	131	37.5 - 164	126350179
Azinphos-methyl (Guthion)	1000	1000	ug/L	100	37.5 - 164	126350181
Azinphos-methyl (Guthion)	790	1000	ug/L	79.0	37.5 - 164	126350189
Azinphos-methyl (Guthion)	825	1000	ug/L	82.5	37.5 - 164	126350194
Demeton	1020	1000	ug/L	102	58.6 - 150	126350174
Demeton	1020	1000	ug/L	102	58.6 - 150	126350179
Demeton	999	1000	ug/L	99.9	58.6 - 150	126350181
Demeton	913	1000	ug/L	91.3	58.6 - 150	126350189
Demeton	924	1000	ug/L	92.4	58.6 - 150	126350194
Diazinon	1020	1000	ug/L	102	65.4 - 138	126350174
Diazinon	1040	1000	ug/L	104	65.4 - 138	126350179
Diazinon	1170	1000	ug/L	117	65.4 - 138	126350181
Diazinon	1070	1000	ug/L	107	65.4 - 138	126350189
Malathion	1050	1000	ug/L	105	65.4 - 138	126350194
Malathion	1030	1000	ug/L	103	49.5 - 160	126350174
Malathion	993	1000	ug/L	99.3	49.5 - 160	126350179
Malathion	971	1000	ug/L	97.1	49.5 - 160	126350181
Malathion	890	1000	ug/L	89.0	49.5 - 160	126350189
Parathion, ethyl	855	1000	ug/L	85.5	49.5 - 160	126350194
Parathion, ethyl	1030	1000	ug/L	103	56.0 - 142	126350174
Parathion, ethyl	916	1000	ug/L	91.6	56.0 - 142	126350179
Parathion, ethyl	878	1000	ug/L	87.8	56.0 - 142	126350181
Parathion, ethyl	817	1000	ug/L	81.7	56.0 - 142	126350189
Parathion, methyl	818	1000	ug/L	81.8	56.0 - 142	126350194
Parathion, methyl	1030	1000	ug/L	103	12.6 - 194	126350174
Parathion, methyl	847	1000	ug/L	84.7	12.6 - 194	126350179
Parathion, methyl	742	1000	ug/L	74.2	12.6 - 194	126350181
Parathion, methyl	641	1000	ug/L	64.1	12.6 - 194	126350189
	627	1000	ug/L	62.7	12.6 - 194	126350194

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1118560	463	511	1000	0.100 - 155	46.3	51.1	ug/L	9.86	30.0
Demeton	1118560	345	453	1000	0.100 - 109	34.5	45.3	ug/L	27.1	30.0
Diazinon	1118560	358	414	1000	0.100 - 125	35.8	41.4	ug/L	14.5	30.0
Malathion	1118560	453	513	1000	0.100 - 130	45.3	51.3	ug/L	12.4	30.0
Parathion, ethyl	1118560	496	555	1000	0.100 - 122	49.6	55.5	ug/L	11.2	30.0
Parathion, methyl	1118560	448	497	1000	0.100 - 131	44.8	49.7	ug/L	10.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1090	2000	ug/L	54.5	0.100 - 106	126350174
Tributylphosphate		CCV	1070	2000	ug/L	53.5	0.100 - 106	126350179
Tributylphosphate		CCV	1100	2000	ug/L	55.0	0.100 - 106	126350181
Tributylphosphate		CCV	1050	2000	ug/L	52.5	0.100 - 106	126350189

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

EEL3-G

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Project 1102507

Printed 05/28/2024

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1040	2000	ug/L	52.0	0.100 - 106	126350194
Triphenylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 172	126350174
Triphenylphosphate		CCV	1570	2000	ug/L	78.5	0.100 - 172	126350179
Triphenylphosphate		CCV	2020	2000	ug/L	101	0.100 - 172	126350181
Triphenylphosphate		CCV	1930	2000	ug/L	96.5	0.100 - 172	126350189
Tributylphosphate		CCV	2080	2000	ug/L	104	0.100 - 172	126350194
Tributylphosphate	1118560	Blank	393	2000	ug/L	19.6	0.100 - 106	126350175
Tributylphosphate	1118560	LCS	475	2000	ug/L	23.8	0.100 - 106	126350176
Triphenylphosphate	1118560	LCS Dup	557	2000	ug/L	27.8	0.100 - 106	126350177
Triphenylphosphate	1118560	Blank	359	2000	ug/L	18.0	0.100 - 172	126350175
Triphenylphosphate	1118560	LCS	409	2000	ug/L	20.4	0.100 - 172	126350176
Tributylphosphate	1118560	LCS Dup	471	2000	ug/L	23.6	0.100 - 172	126350177
Triphenylphosphate	2297153	Unknown	0.664	2.11	ug/L	31.5	0.100 - 106	126350180
	2297153	Unknown	0.0639	2.11	ug/L	3.03	0.100 - 172	126350180

Analytical Set 1120173

ASTM D7065-11

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	180000	150000	ug/L	120	70.0 - 130	126353413
Nonylphenol	162000	150000	ug/L	108	70.0 - 130	126353433

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	623252	CCV	909500	909500	454700	1364000	126353413	623252
Acenaphthene-d10-ISTD	623252	CCV	811100	909500	454700	1364000	126353433	623252
Phenanthrene-d10-ISTD	623252	CCV	1462000	1462000	731100	2193000	126353413	623252
Phenanthrene-d10-ISTD	623252	CCV	1264000	1462000	731100	2193000	126353433	623252
Acenaphthene-d10-ISTD	2297153	Unknown	581800	909500	454700	1364000	126353420	1119221
Phenanthrene-d10-ISTD	2297153	Unknown	963500	1462000	731100	2193000	126353420	1119221

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	623252	CCV	7.429	7.429	7.369	7.489	126353413	623252
Acenaphthene-d10-ISTD	623252	CCV	7.435	7.429	7.369	7.489	126353433	623252
Phenanthrene-d10-ISTD	623252	CCV	8.679	8.679	8.619	8.739	126353413	623252
Phenanthrene-d10-ISTD	623252	CCV	8.685	8.679	8.619	8.739	126353433	623252
Acenaphthene-d10-ISTD	2297153	Unknown	7.435	7.429	7.369	7.489	126353420	1119221
Phenanthrene-d10-ISTD	2297153	Unknown	8.679	8.679	8.619	8.739	126353420	1119221

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	623252	CCV	28100	25000	ug/L	112	50.0 - 130	126353413
4-Nonylphenol-SURR	623252	CCV	25600	25000	ug/L	102	50.0 - 130	126353433
4-Nonylphenol-SURR	2297153	Unknown	17.8	25.3	ug/L	70.4	50.0 - 130	126353420

Analytical Set 1120962

EPA 632

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

SPL
The Science of Sure

EEL3-G

Project
1102507

Eastex Environmental Lab
Mark Bourgeois
PO Box 1089
35 Eastex Lane
Coldspring, TX 77331

Printed 05/28/2024

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1118551	ND	66.1	2500	ug/L	126369536
Diuron	1118551	ND	44.4	45.0	ug/L	126369536

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	1040	1000	ug/L	104	70.0 - 130	126369535
Carbaryl (Sevin)	911	1000	ug/L	91.1	70.0 - 130	126369543
Carbaryl (Sevin)	1050	1000	ug/L	105	70.0 - 130	126369547
Carbaryl (Sevin)	1080	1000	ug/L	108	70.0 - 130	126369551
Carbaryl (Sevin)	893	1000	ug/L	89.3	70.0 - 130	126369554
Carbaryl (Sevin)	1110	1000	ug/L	111	70.0 - 130	126369555
Carbaryl (Sevin)	1210	1000	ug/L	121	70.0 - 130	126369557
Diuron	1020	1000	ug/L	102	70.0 - 130	126369535
Diuron	991	1000	ug/L	99.1	70.0 - 130	126369543
Diuron	1010	1000	ug/L	101	70.0 - 130	126369547
Diuron	1090	1000	ug/L	109	70.0 - 130	126369551
Diuron	860	1000	ug/L	86.0	70.0 - 130	126369554
Diuron	1160	1000	ug/L	116	70.0 - 130	126369555
Diuron	1180	1000	ug/L	118	70.0 - 130	126369557

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1118551	904	978	1000	17.1 - 131	90.4	97.8	ug/L	7.86	30.0
Diuron	1118551	711	775	1000	0.100 - 138	71.1	77.5	ug/L	8.61	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Carbaryl (Sevin)	2296362	0.886	0.861	ND	1000	0.100 - 215	88.8	86.3	ug/L	2.86	30.0
Diuron	2296362	0.482	0.449	ND	1000	0.100 - 148	48.3	45.0	ug/L	7.09	50.0

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.); CCB - Continuing Calibration Blank; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; DFTPP - GC/MS Tuning Compound; IS Areas - Internal Standard Area (The area of the internal stadard relative to a check standard. Internal Standard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.), IS RetTime - Internal Standard Retention Time (the time the internal standard comes off the column. Internal Stardard is a known concentration of an analyte(s) that is not a sample component or standard that is added to the sample and standard and is used to measure the relative responses of other analytes in the same sample or standard.)

1102507 CoC Print Group 001 of 001

EASTEX
ENVIRONMENTAL LABS INC.

SUBCONTRACT ORDER

2297153
2297167
1 68
1 69

Sending Laboratory:

Eastex Environmental Laboratory - Coldspring
PO Box 1089
Coldspring, TX 77331

Phone: 936-653-3249
eastexlab@eastex.net
Project Manager: Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Ana Lab/SPL Inc
PO BOX 3275
Kilgore, TX 75663

Phone: (903) 984-0551
Fax:

PO 050724C

Requested Turnaround 10 Days

Sample ID: Galveston Airport Permit Renewal Eff PR Comp 05/06/2024 00:00 **Sample No: C4D4860-01** ***Water*** **Sampled:**

Semi-Volatiles-Permit (625.1)
Pesticides-Permit 608.3
Pesticides Mirex,Dicofol 608.3
PCB-Permit 608.3
Organophosphorus Pesticides
Nonylphenol
Mercury LL Blank
Mercury LL
Carbaryl/Diuron EPA 632
Acidic Herbicides-Permit

no flow noted, equal parts composite

Containers Supplied: 16

Special Instructions: PCB MG/KG

Sample ID: Galveston Airport Permit Renewal Eff PR Grab 09:30 **Sample No: C4D4860-02** ***Water*** **Sampled: 05/06/2024**

Cyanide, Total

Containers Supplied: 1

Special Instructions:

☐ **See Attached**

Received Iced Y/N Temp:

Galveston Airport WWTP

Released By

5-7 14 1300
Date & Time

Received By

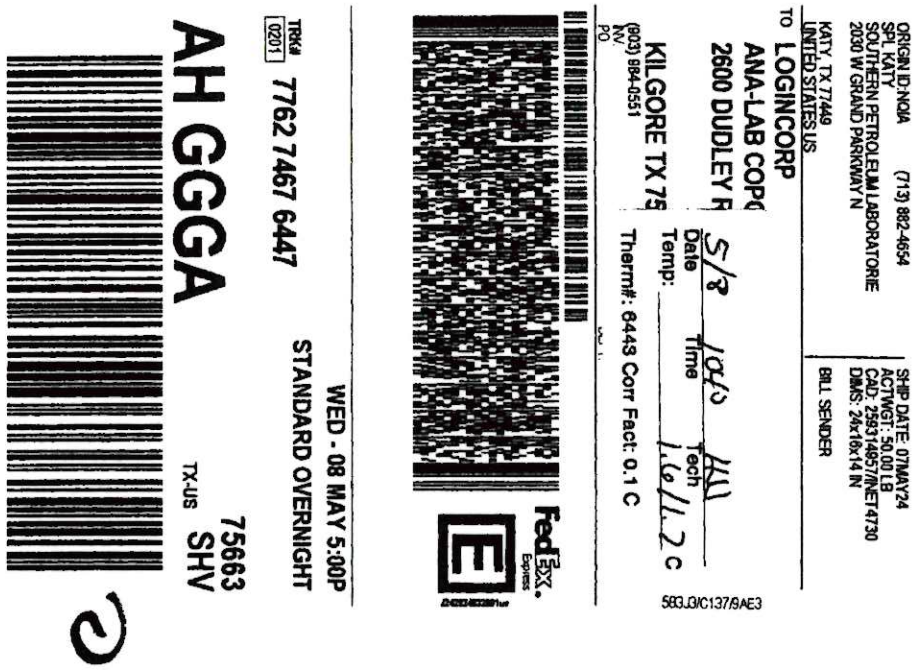
5/7/24 13:00
Date & Time

sco_2023SubcontractOrder.rpt 10062023

5/7/24 17:00

FedEx

1102507 CoC Print Group 001 of 001



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331 (936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375 (936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: City of Galveston
Address: on file
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): Dustin Parker
Sampler's Signature:
Project Name: Galveston Airport WWTP

INVOICE TO:

Company: SAME
Address: on file
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED: ECOLI	CBOD, TSS, TDS, ALK, ~~CONB, CL, N03N, SO4~~	NH3N, TKN, O&G, Phenool, TP	VOC - 624.1	CN	Metals	Chrom VI, N03N, F	SVOC 625.1 Pest 608.3, PCB, Mirex	Op 1657, Carb/Diuron, Herb 615	Nonylphenol
C4D4860	Effluent	5-6-24	930	ww	G			2.4			1	6	P,S	ST C	X									
	Effluent	5-6-24	930	ww	G						5	3,4,5	P	C		X								
	Effluent	5-6-24	930	ww	G						5	3,4,5	P,G	ST,S,N,C			X							
	Effluent	5-6-24	930	ww	G						3	8	G	H,C				X						
	Effluent	5-6-24	930	ww	G						1	3	P	NaOH, C					X					
	Effluent			ww	C						1	3	P	N,C						X				
	Effluent			ww	C						2	4,5	p	C							X			
	Effluent			ww	C						10	3	G	C								X	X	
	Effluent			ww	C						1	3	G	S,C										X
	Field Effluent	5-6-24	935	ww	G	6.6	7.1		[illegible]	76.1	0													

Relinquished By: Received By: Date Time
Received Iced: YES / NO

Relinquished By: Received By: Date Time
Received Iced: YES / NO

Relinquished By: Received By and/or Checked in By: Date 5-6-24 Time 1700
Received Iced: (YES) / NO

LAB USE ONLY Sample Condition Acceptable: (YES) / NO
Alternate Check In: Date Time
Temp °C: 2.7 *Therm ID: 15 Logged In By: Date: 5-6-24 Time: 1424

*Thermometer has 0.0 factor and recorded temperature is actual temperature

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331 (936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375 (936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: City of Galveston
Address: on file
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): Dustin Parker
Sampler's Signature:
Project Name: Galveston Airport WWTP

INVOICE TO:

Company: SAME
Address: on file
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED: LL HG	Blank LL HG
C4D4860	Eff Grab1	4/28/24	800	ww	G										x	
	Eff Grab 2	4/28/24	1000	ww	G										x	
	Eff Grab 3	4/28/24	1200	ww	G										x	
	Eff Grab 4	5-6-24	938	ww	C										x	
	LL HG BLANK				G											x

Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Received By and/or Checked In By: Date 5-6-24 Time 1500 Received Iced: YES / NO

LAB USE ONLY Sample Condition Acceptable: YES / NO
Alternate Check In: Date Time
Temp °C: 2.7 *Therm ID: 15 Logged In By: Date 5-6-24 Time 1424

*Thermometer has 0.0 factor and recorded temperature is actual temperature

Francesca Findlay

From: Cynthia Diaz <CDiaz@GalvestonTX.Gov>
Sent: Tuesday, July 2, 2024 7:41 AM
To: Francesca Findlay
Subject: RE: WQ0010688002 City of Galveston
Attachments: Municipal Discharge Renewal - englishxx.docx; Municipal TPDES and TLAP PLS Form (Spanish).docx; Municipal TPDES and TLAP PLS Form.docx

Cynthia Diaz, Wastewater Treatment Plant Superintendent
Municipal Utilities Department
P.O. Box 779 Galveston, TX 77553 | 3015 Market St. Galveston, TX 77550
D:409.797.3785 | C:409.789.4221 | F: 409.356.4007 | cdiaz@galvestontx.gov

---

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Tuesday, June 25, 2024 9:19 AM
To: Cynthia Diaz <CDiaz@GalvestonTX.Gov>
Cc: Benjamin Lirette <BLirette@galvestontx.gov>
Subject: FW: WQ0010688002 City of Galveston

Good morning, Ms. Findlay,

Attached is the information requested. And yes I made a mistake on the flow it is 4.76 MGD. No errors on the NORI please let me know if there is anything else you need from me.

Have a Super Fantastic day!

Dear Ms. Diaz:

The attached Notice of Deficiency letter sent on June 25, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention July 9, 2024.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Please consider whether it is necessary to print this e-mail