



# 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.

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# 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.

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

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

### **ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS INDUSTRIAL WASTEWATER/STORMWATER**

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 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.*

Pilgrim's Pride Corporation (CN601276660 ) operates the Pilgrim's Pride Southwest Wastewater Treatment Plant RN102184041, a wastewater treatment plant treating industrial wastewater from poultry processing operations and a number of private residences. The facility is located at 664 FM 127 W, in Mt. Pleasant, Titus County, Texas 75455. This application is for a renewal of Wastewater Permit W0003017000 to discharge 3,500,000 gallons per day of treated effluent via Outfall 001.

Discharges from the facility are expected to contain pollutants listed in 40 CFR Part 432 including: 5-day biochemical oxygen demand, fecal coliform, oil and grease, total suspended solids, ammonia, total nitrogen, pH, and temperature. Additional potential pollutants from this discharge are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0. Wastewater treated at this facility consists of a combination of process wastewaters from poultry first and further processing and protein conversion (rendering) operations along with industrial stormwater discharges from these operations and sanitary wastewater from a small number of private residences. Wastewater from these sources is treated by initial screening, biological treatment via anaerobic, anoxic/oxic, and aeration basins/lagoons, final clarification, tertiary filtration, chlorination, and dechlorination prior to discharge.

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

### **AGUAS RESIDUALES INDUSTRIALES/AGUAS PLUVIALES**



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

Pilgrim's Pride Corporation (CN601276660) opera la planta de tratamiento de aguas residuales de Pilgrim's Pride Southwest RN102184041, una planta de tratamiento de aguas residuales que trata las aguas residuales industriales de las operaciones de procesamiento de aves y varias residencias privadas. La instalación está ubicada en 664 FM 127 W, en Mt. Pleasant, condado de Titus, Texas 75455. Esta solicitud es para renovar el permiso de aguas residuales W0003017000 para descargar 3,500,000 galones por día de efluentes tratados a través del Outfall 001.

Se espera que las descargas de la instalación contengan contaminantes enumerados en 40 CFR Part 432, que incluyen: demanda bioquímica de oxígeno de 5 días, coliformes fecales, aceite y grasa, sólidos suspendidos totales, amoníaco, nitrógeno total, pH y temperatura. Los posibles contaminantes adicionales de esta descarga se incluyen en el Industrial Wastewater Application Technical Report, Worksheet 2.0. Las aguas residuales tratadas en esta instalación son una combinación de aguas residuales de proceso de las operaciones de conversión (rendimiento) de proteínas y primer procesamiento de aves de corral junto con descargas de aguas pluviales industriales de estas operaciones y aguas residuales sanitarias de una pequeña cantidad de residencias privadas. Las aguas residuales de estas fuentes son tratadas mediante procesos físicos/químicos y biológicos de tratamiento de aguas residuales.

## INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

**PERMIT NO. WQ0010688005**

**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. WQ0010688005 (EPA I.D. No. TX0066125) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,000,000 gallons per day. The domestic wastewater treatment facility is located at 3715 1/2 Laguna Drive, Galveston, in Galveston County, Texas 77554. The discharge route is from the plant site directly to West Bay. TCEQ received this application on July 11, 2023. The permit application will be available for viewing and copying at Galveston City Hall, 823 Rosenberg Street, Galveston, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.0575,29.135833&level=18>

**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](http://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 <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](http://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 at 409-797-3630.

Issuance Date: August 23, 2023

# Texas Commission on Environmental Quality



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

### AMENDMENT

**PERMIT NO. WQ0014546001**

**APPLICATION AND PRELIMINARY DECISION.** City of Iowa Colony, 3144 Meridiana Parkway, Iowa Colony, Texas 77583, has applied to the Texas Commission on Environmental Quality (TCEQ) for a major amendment to Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001 to revise the discharge route by adding a series of detention ponds to the discharge route. The current permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,000,000 gallons per day. TCEQ received this application on December 1, 2023.

The facility is located at 2401 County Road 57, in Brazoria County, Texas 77583. **Existing Discharge Route:** The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch and the BCDD 5 Ditch No. 101-10-00, limited aquatic life use for the detention ponds, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use. In accordance with 30 Texas Administrative Code Section 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.43879,29.455264&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 Manvel Library, 20514B Highway 6, Manvel, Texas.

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

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

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

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

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

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

**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](http://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](http://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](http://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](http://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 Iowa Colony at the address stated above or by calling Ms. Shelley Young, P.E., WaterEngineers, Inc., at 281-373-0500.

Issuance Date: June 6, 2025

# Comisión de Calidad Ambiental de Texas



## AVISO DE SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO TPDES PARA AGUAS RESIDUALES MUNICIPALES

### MODIFICACION

#### PERMISO NO. WQ0014546001

**SOLICITUD Y DECISIÓN PRELIMINAR.** Ciudad de Iowa Colony, 3144 Meridiana Parkway, Iowa Colony, Texas 77583, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ, por sus siglas en inglés) una enmienda importante al Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES, por sus siglas en inglés) Permiso No. WQ0014546001 para revisar la ruta de descarga añadiendo una serie de puntos de detención a la ruta de descarga. El permiso actual autoriza la descarga de aguas residuales domésticas tratadas de un flujo medio anual medio que no exceda los 2,000,000 galones por día. La TCEQ recibió esta solicitud en el 1 de diciembre de 2023.

La instalación estará ubicada a 2401 Camino de Condado 57, en el Condado de Brazoria, Texas 77583. **Ruta de Descarga Existente:** El efluente tratado será descargado a Zanja del Distrito de Drenaje Numero 5 del Condado de Brazoria (BCDD 5) 101-10-00, de ahí a West Fork Chocolate Bayou, de ahí a Chocolate Bayou por encima de la marea en el Segmento No. 1108 de la Cuenca Costera de San Jacinto-Brazos. **Nueva Ruta de Descarga:** El efluente tratado será descargado a una zanja, de ahí a una serie de estanques de detención; de ahí a Zanja del BCDD 5 101-10-00, de ahí a West Fork Chocolate Bayou, de ahí a Chocolate Bayou por encima de la marea en el Segmento No. 1108 de la Cuenca Costera de San Jacinto-Brazos. Los usos no clasificados de las aguas receptoras son minimos usos de la vida acuatica para una zanja y Zanja de BCDD5 101-10-00, limitados usos de la vida acuatica para los estanques de detencion y elevados usos de la vida acuatica para West Fork Chocolate Bayou. Los usos designados para el Segmento No. 1108 son elevados usos de vida acuática y recreación contacto primaria. De acuerdo con la 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa en West Fork Chocolate Bayou, el cual se ha identificado que tiene elevados usos en la vida acuática. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud o aviso. Para conocer la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.43879,29.455264&level=18>

El Director Ejecutivo de la TCEQ ha concluido el examen técnico de la solicitud y ha preparado un bosquejo de permiso. El bosquejo de permiso, de ser aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado la decisión preliminar de que este permiso, si se emite, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el bosquejo del permiso están disponibles para ver y copiar en Biblioteca de Manvel, 20514B, Autopista 6, Manvel, Tejas.

**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-notice>.

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

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

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

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

**La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

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

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

También se puede obtener más información de Ciudad de Iowa Colony en la dirección indicada anteriormente o llamando a Shelley Young, P.E., WaterEngineers, Inc., al 281-373-0500.

Fecha de Emisión: 6 de junio de 2025





TPDES PERMIT NO.  
WQ0014546001  
*[For TCEQ office use only - EPA I.D.  
No. TX0126951]*

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

This major amendment with renewal  
supersedes and replaces TPDES Permit  
No. WQ0014546001 issued on June 26,  
2019.

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

City of Iowa Colony

whose mailing address is

3144 Meridiana Parkway  
Iowa Colony, Texas 77583

is authorized to treat and discharge wastes from the Brazoria County MUD 31 Wastewater  
Treatment Facility, SIC Code 4952

located at 2401 County Road 57, in Brazoria County, Texas 77583

**Existing Discharge Route:** to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin

**New Discharge Route:** to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin (See Attachment A.)

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:

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For the Commission

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through two years and 364 days, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (75)	12	22	32	One/week	Composite
Total Suspended Solids	15 (113)	20	40	60	One/week	Composite
Ammonia Nitrogen	3 (23)	5	10	15	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Two/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored daily by grab sample at each chlorine contact chamber. 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 twice per month 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 once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon three years from the date of issuance and lasting through the completion of expansion to the 1.15 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (53)	12	22	32	One/week	Composite
Total Suspended Solids	12 (90)	20	40	60	One/week	Composite
Ammonia Nitrogen	2 (15)	5	10	15	One/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Two/month	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored daily by grab sample at each chlorine contact chamber. 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 twice per month 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 once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the completion of expansion to the 1.15 million gallons per day (MGD) facility and lasting through the completion of expansion to the 2.0 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 1.15 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,194 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (67)	12	22	32	Two/week	Composite
Total Suspended Solids	12 (120)	20	40	60	Two/week	Composite
Ammonia Nitrogen	2 (19)	5	10	15	Two/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	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 at each chlorine contact chamber. 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 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the completion of expansion to the 2.0 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 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,556 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	5 (83)	10	20	30	Two/week	Composite
Total Suspended Solids	5 (83)	10	20	30	Two/week	Composite
Ammonia Nitrogen	2 (33)	5	10	15	Two/week	Composite
<i>E. coli</i> , colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	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 at each chlorine contact chamber. 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 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.



## DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

### 1. Flow Measurements

- a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.
- b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

### 2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

- ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

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

- e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the  $n$ th root of the product of all measurements made in a calendar month, where  $n$  equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
  - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
  - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.
3. Sample Type
- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

- b. Grab sample - an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

## **MONITORING AND REPORTING REQUIREMENTS**

### **1. Self-Reporting**

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

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

### **2. Test Procedures**

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests, and calculations shall be accurately accomplished in a representative manner.
- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC § 25, Environmental Testing Laboratory Accreditation and Certification.

### **3. Records of Results**

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

- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

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

#### 4. Additional Monitoring by Permittee

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

#### 5. Calibration of Instruments

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

#### 6. Compliance Schedule Reports

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

Division (MC 224).

## 7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
  - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
    - i. Unauthorized discharges as defined in Permit Condition 2(g).
    - ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.
    - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.
  - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
  - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
9. Changes in Discharges of Toxic Substances

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



- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
  - i. One hundred micrograms per liter (100 µg/L);
  - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
  - i. Five hundred micrograms per liter (500 µg/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

#### 10. Signatories to Reports

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

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

- a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. For the purpose of this paragraph, adequate notice shall include information on:
  - i. The quality and quantity of effluent introduced into the POTW; and
  - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

**PERMIT CONDITIONS****1. General**

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

**2. Compliance**

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

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

- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
  - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
  - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.
- e. In accordance with the TWC § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the

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

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

## **OPERATIONAL REQUIREMENTS**

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30



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

7. Documentation

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

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

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

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

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

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
  - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well,

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

- f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:
  - i. Volume of waste and date(s) generated from treatment process;
  - ii. Volume of waste disposed of on-site or shipped off-site;
  - iii. Date(s) of disposal;
  - iv. Identity of hauler or transporter;
  - v. Location of disposal site; and
  - vi. Method of final disposal.

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

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

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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 once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases 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 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 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

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

\* Dry weight basis

### 3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be

maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

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

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

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

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

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

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

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

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

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

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

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

- i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.



- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.
  - viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
  - ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.
4. Vector Attraction Reduction Requirements

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

- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are

defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

- i. Biosolids shall be injected below the surface of the land.
- ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

### C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit in the Interim I and II phases; annually in the Interim II and Final phases
PCBs	- once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases

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

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

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

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

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

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

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

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

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

**A. Pollutant Limits**

Table 2

<u>Pollutant</u>	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

<u>Pollutant</u>	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 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 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 once during the term of this permit in the Interim I and II phases; annually in the Interim III and Final phases 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 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 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 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 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.

TCEQ Revision 06/2020

**OTHER REQUIREMENTS**

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

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

2. The facility is not located in the Coastal Management Program boundary.
3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.
4. On April 4, 2024, the permittee submitted sufficient 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). The buffer zone is being met by drainage easement to the north of the existing treatment trains and in the middle of the two treatment facility sites. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment A.)
5. Within 120 days from permit issuance for the Interim II phase and prior to construction of the treatment facilities for Interim III and Final phases, 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, 2b, and 2c 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.
6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this

permit, two/month may be reduced to one/month in the Interim I and II phases and one/week may be reduced to two/month in the Interim III and Final 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.

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. The permittee shall achieve compliance with the Interim II permitted effluent limitations for CBOD<sub>5</sub>, TSS, NH<sub>3</sub>-N required on Page 2a of the permit in accordance with the following schedule for the construction of treatment facilities.

The permittee shall submit quarterly progress reports in accordance with the following schedule. The requirement to submit quarterly progress reports shall expire three years from the date of permit issuance.

#### PROGRESS REPORT DATES

January 1  
April 1  
July 1  
October 1

The quarterly progress reports shall include a discussion of the interim requirements that have been completed at the time of the report and shall address the progress towards attaining the water quality-based final effluent limitations included on page 2b for Outfall 001 no later than three years from the date of permit issuance.

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. All reports shall be submitted to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team of the Enforcement Division (MC 224) of the TCEQ.

**CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS**

1. The following pollutants may not be introduced into the treatment facility:
  - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
  - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
  - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
  - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
  - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
  - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
  - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
  - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].
3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
  - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

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

Revised July 2007

**BIOMONITORING REQUIREMENTS****CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER**

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. **Scope, Frequency, and Methodology**

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival, reproduction, or growth of the test organisms.
- b. Within 90 days of initial discharge of the 1.15 interim phase facility, the permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:
  - 1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.
  - 2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 31%, 42%, 56%, 74%, and 100% effluent. The critical dilution, defined as 74% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
  - 1) If none of the first four consecutive quarterly tests demonstrates



significant toxicity, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

- 2) If one or more of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant toxicity, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
  - 1) a control mean survival of 80% or greater;
  - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
  - 3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
  - 4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
  - 5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow 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 47 or less for water flea reproduction; and
  - 7) a percent minimum significant difference of 30 or less for fathead minnow growth.
- b. Statistical Interpretation
  - 1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.
  - 2) For the water flea reproduction test and the fathead minnow 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..

- 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) 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.
- 5) 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 defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control (0% effluent).
- 6) 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 3.
- 7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), 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 Item 3 will be used when making a determination of test acceptability.
- 8) 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 at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

- a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
    - b) use the closest downstream perennial water unaffected by the discharge.
  - 2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
    - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
    - b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); 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, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.
- d. Samples and Composites
- 1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.
  - 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
  - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
  - 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the

effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

- 5) The effluent samples shall not be dechlorinated after sample collection.

### 3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.
  - 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
  - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
  - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
  - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
  - 1) For the water flea, Parameter TLP3B, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
  - 2) For the water flea, Parameter TOP3B, report the NOEC for survival.
  - 3) For the water flea, Parameter TXP3B, report the LOEC for survival.
  - 4) For the water flea, Parameter TWP3B, enter a "1" if the NOEC for reproduction is less than the critical dilution; otherwise, enter a "0."
  - 5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.
  - 6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.
  - 7) For the fathead minnow, Parameter TLP6C, enter a "1" if the NOEC for

survival is less than the critical dilution; otherwise, enter a “o.”

- 8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.
  - 9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.
  - 10) For the fathead minnow, Parameter TWP6C, enter a “1” if the NOEC for growth is less than the critical dilution; otherwise, enter a “o.”
  - 11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.
  - 12) For the fathead minnow, Parameter TYP6C, 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 “o.”
  - 2) For retest number 2, Parameter 22416, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “o.”

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction 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 "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
  - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a

- specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
- 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
  - 4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
  - d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
    - 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
    - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
    - 3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
    - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
    - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
    - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
  - e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
  - f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.



TABLE 1 (SHEET 1 OF 4)

## BIOMONITORING REPORTING

## CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

No. 1 FROM: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ TO: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

No. 2 FROM: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ TO: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

No. 3 FROM: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ TO: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Test initiated: \_\_\_\_\_ am/pm \_\_\_\_\_ date

Dilution water used: \_\_\_\_\_ Receiving water \_\_\_\_\_ Synthetic Dilution water

## NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	31%	42%	56%	74%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

\*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

## CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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 number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

CRITICAL DILUTION (74%): \_\_\_\_\_ YES \_\_\_\_\_ NO

## PERCENT SURVIVAL

Time of Reading	Percent effluent					
	0%	31%	42%	56%	74%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

CRITICAL DILUTION (74%): \_\_\_\_\_ YES \_\_\_\_\_ NO

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

a.) NOEC survival = \_\_\_\_\_ % effluent

b.) LOEC survival = \_\_\_\_\_ % effluent

c.) NOEC reproduction = \_\_\_\_\_ % effluent

d.) LOEC reproduction = \_\_\_\_\_ % effluent

TABLE 1 (SHEET 3 OF 4)

## BIOMONITORING REPORTING

## FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

No. 1 FROM: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ TO: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

No. 2 FROM: \_\_\_\_\_ TO: \_\_\_\_\_

No. 3 FROM: \_\_\_\_\_ TO: \_\_\_\_\_

Test initiated: \_\_\_\_\_ am/pm \_\_\_\_\_ date

Dilution water used: \_\_\_\_\_ Receiving water \_\_\_\_\_ Synthetic dilution water

## FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
31%							
42%							
56%							
74%							
100%							
PMSD							

\* Coefficient of Variation = standard deviation x 100/mean

- 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 significant nonlethal effects?

CRITICAL DILUTION (74%): \_\_\_\_\_ YES \_\_\_\_\_ NO

TABLE 1 (SHEET 4 OF 4)  
BIOMONITORING REPORTING  
FATHEAD MINNOW GROWTH AND SURVIVAL TEST  
FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
31%									
42%									
56%									
74%									
100%									

\* Coefficient of Variation = standard deviation x 100/mean

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

CRITICAL DILUTION (74%): \_\_\_\_\_ 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: FRESHWATER

The provisions of this section apply to Outfall 001 for WET testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. Within 90 days of initial discharge of the 1.15 interim phase facility, the toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
  - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
  - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution 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 item 2.b., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.
- e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted

to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water - In accordance with item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.
- c. Samples and Composites
  - 1) The permittee shall collect one composite sample from Outfall 001.
  - 2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
  - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The 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 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.
- 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, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
  - c. Enter the following codes for the appropriate parameters for valid tests only:
    - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
    - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter 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 a "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 a "1."
4. Persistent Mortality
- The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.
- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
  - b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.
5. Toxicity Reduction Evaluation
- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical 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 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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.
- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.
- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

## WATER FLEA SURVIVAL

## GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

## PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC<sub>50</sub> below:

24 hour LC<sub>50</sub> = \_\_\_\_\_% effluent

TABLE 2 (SHEET 2 OF 2)  
FATHEAD MINNOW SURVIVAL

## GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

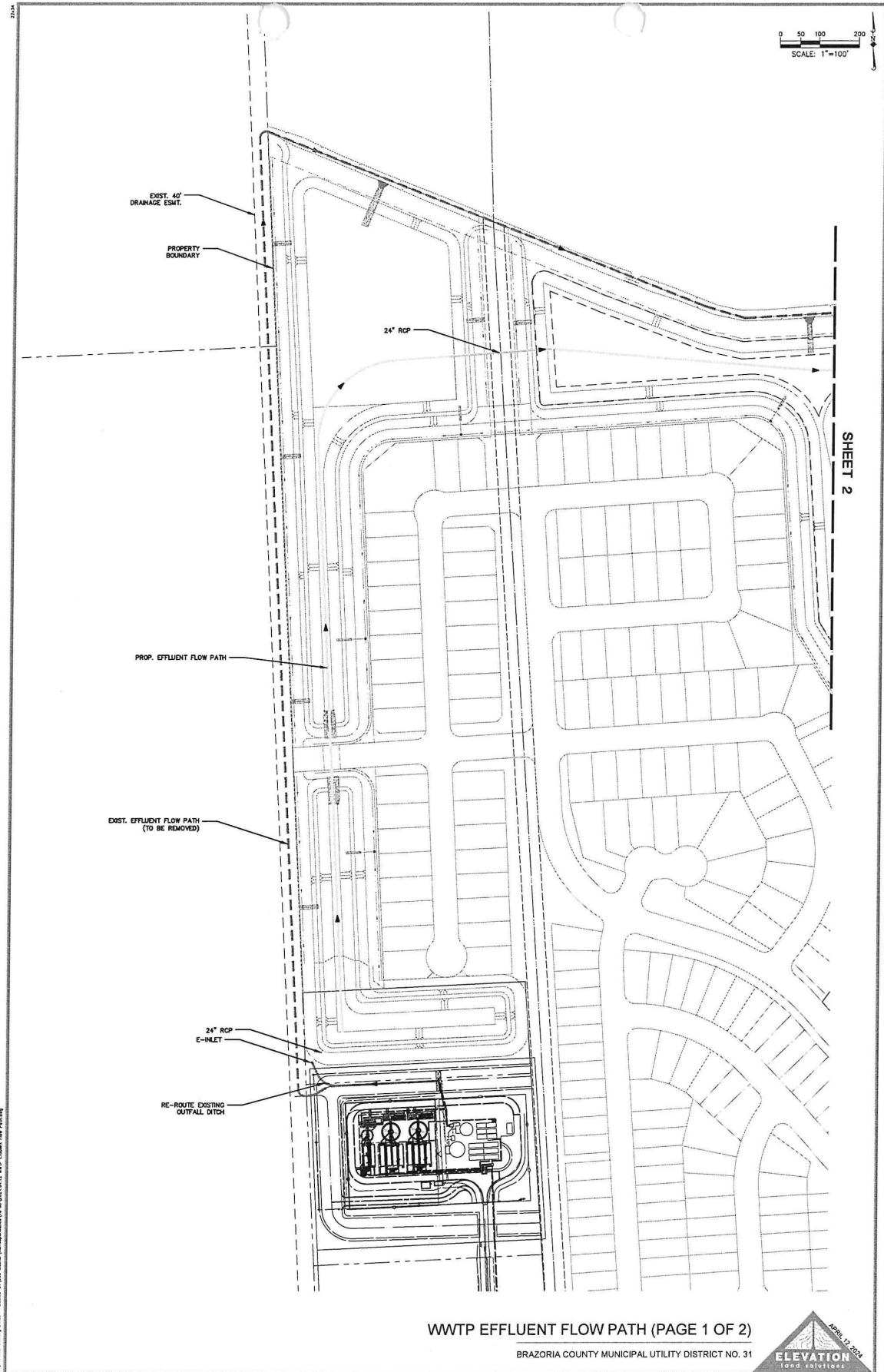
## PERCENT SURVIVAL

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

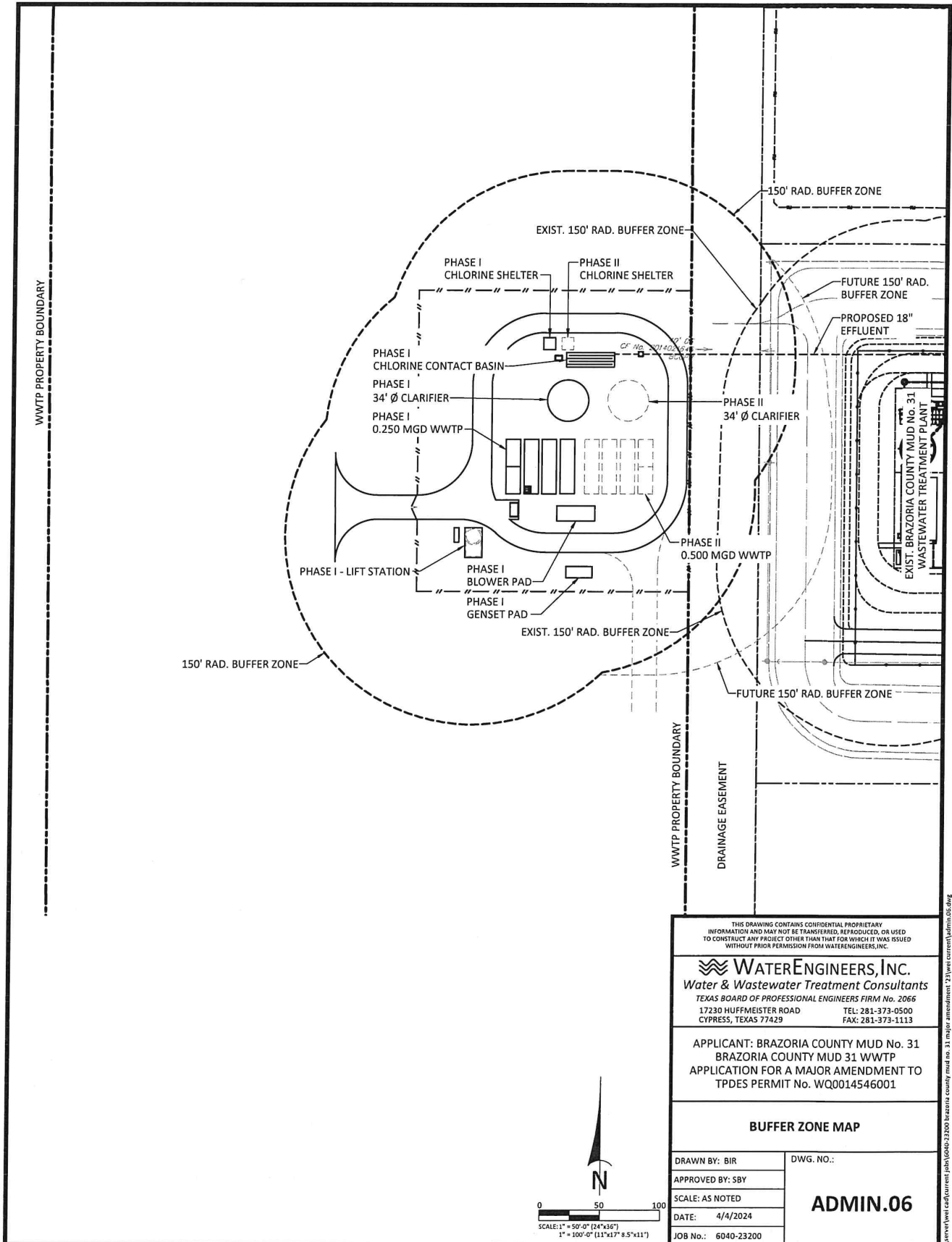
Enter percent effluent corresponding to the LC<sub>50</sub> below:

24 hour LC<sub>50</sub> = \_\_\_\_\_% effluent

Attachment A – Discharge Route  
TPDES Permit No. WQ0014546001  
City of Iowa Colony



Attachment B – Buffer Zone Map  
 TPDES Permit No. WQ0014546001  
 City of Iowa Colony



## FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0014546001, EPA I.D. No. TX0126951, 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 Iowa Colony  
3144 Meridiana Parkway  
Iowa Colony, Texas 77583

Prepared By: Kimberly Kendall, P.E.  
Municipal Permits Team  
Wastewater Permitting Section (MC 148)  
Water Quality Division  
(512) 239-4540

Date: May 9, 2025

Permit Action: Major Amendment with Renewal

### 1. EXECUTIVE DIRECTOR RECOMMENDATION

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

### 2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for an amendment of the existing permit to revise the discharge route by adding a series of detention ponds to the discharge route. The existing wastewater treatment facility serves the Sterling Lakes, Sterling Lakes North, and Sierra Vista subdivisions.

### 3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 2401 County Road 57, in Brazoria County, Texas 77583.

#### Outfall Location:

Outfall Number	Latitude	Longitude
001	29.455708 N	95.438628 W

**Existing Discharge Route:** The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108

of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch, limited aquatic life use for the detention ponds, minimal aquatic life use for BCDD 5 Ditch No. 101-10-00, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use.

#### **4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL**

The Brazoria County MUD 31 Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix mode. Interim I phase consists of five trains with the flow being split proportionally to each train. Treatment units in the Interim I phase include an on-site lift station, a bar screen, eleven aeration basins, five final clarifiers, eleven sludge digesters, five chlorine contact chambers and dechlorination chamber. Interim II phase will add a sixth train. Treatment units in the Interim II phase will add an on-site lift station, a bar screen, three aeration basins, a final clarifier, two sludge digesters, a chlorine contact chambers and dechlorination chamber. The Final phase will add replicas of Train No. 6. The facility is operating in the Interim I phase.

Sludge generated from the treatment facility is hauled by a registered transporter to Richey Road Sludge Processing Facility, Permit No. WQ0004810000, 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 Brazoria County MUD 31 WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

#### **6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES**

The following is a summary of the applicant's effluent monitoring data for the period November 2021 through November 2023. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), and ammonia nitrogen (NH<sub>3</sub>-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	0.33
CBOD <sub>5</sub> , mg/l	2.5
TSS, mg/l	2.6
NH <sub>3</sub> -N, mg/l	0.34
<i>E. coli</i> , CFU or MPN per 100 ml	1



## 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 I PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute (gpm).

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD <sub>5</sub>	10	75	15	25
TSS	15	113	25	40
NH <sub>3</sub> -N	3	15	6	10
DO (minimum)	4.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month 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 and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored daily by grab sample at each chlorine contact chamber. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD <sub>5</sub>	One/week
TSS	One/week
NH <sub>3</sub> -N	One/week
DO	One/week
<i>E. coli</i>	Two/month

### B. INTERIM II PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.90 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 2,500 gallons per minute (gpm).

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>

City of Iowa Colony TPDES Permit No. WQ0014546001  
Fact Sheet and Executive Director's Preliminary Decision

CBOD <sub>5</sub>	7	53	12	22
TSS	12	90	20	40
NH <sub>3</sub> -N	2	15	5	10
DO (minimum)	4.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month 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 and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored daily by grab sample at each chlorine contact chamber. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD <sub>5</sub>	One/week
TSS	One/week
NH <sub>3</sub> -N	One/week
DO	One/week
<i>E. coli</i>	Two/month

C. INTERIM III PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.15 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,194 gpm.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD <sub>5</sub>	7	67	12	22
TSS	12	120	20	40
NH <sub>3</sub> -N	2	19	5	10
DO (minimum)	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN/100 ml	126	N/A	N/A	399

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

The 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 at each chlorine contact chamber. 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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD <sub>5</sub>	Two/week
TSS	Two/week
NH <sub>3</sub> -N	Two/week
DO	Two/week
<i>E. coli</i>	One/week

**D. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 5,556 gallons per minute.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day Average</u>	<u>Daily Maximum</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>mg/l</u>	<u>mg/l</u>
CBOD <sub>5</sub>	5	83	10	20
TSS	5	83	10	20
NH <sub>3</sub> -N	2	33	5	10
DO (minimum)	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN/100 ml	126	N/A	N/A	399

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

The 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 at each chlorine contact chamber. 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.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD <sub>5</sub>	Two/week
TSS	Two/week
NH <sub>3</sub> -N	Two/week
DO	Two/week
<i>E. coli</i>	One/week

E. 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 Richey Road Sludge Processing Facility, Permit No. WQ0004810000, 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.

F. PRETREATMENT REQUIREMENTS

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

G. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 31%, 42%, 56%, 74%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 74% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
  - (a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
  - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
  - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

- (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

#### H. SUMMARY OF CHANGES FROM APPLICATION

The applicant requested a major amendment to the existing permit which includes effluent limits of 10 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 3 mg/l NH<sub>3</sub>-N, 126 CFU or MPN of *E. coli* per 100 ml and 4.0 mg/l minimum DO in the Interim I and II phases and 7 mg/l CBOD<sub>5</sub>, 15 mg/l TSS, 2 mg/l NH<sub>3</sub>-N and 6.0 mg/l minimum DO in the Final phase. However, the effluent limits in the Interim I and II phases of the draft permit, based on a 30-day average, are 7 mg/l CBOD<sub>5</sub>, 12 mg/l TSS, 2 mg/l NH<sub>3</sub>-N, 126 CFU or MPN of *E. coli* per 100 ml and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 5 mg/l CBOD<sub>5</sub>, 5 mg/l TSS, 2 mg/l NH<sub>3</sub>-N, 126 CFU or MPN of *E. coli* per 100 ml and 6.0 mg/l minimum DO.

#### I. SUMMARY OF CHANGES FROM EXISTING PERMIT

The applicant requested a major amendment to TPDES Permit No. WQ0014546001 to remove the currently permitted Interim I (0.48 MGD) flow phase and to add another interim (1.15 MGD) flow phase. Additionally, a series of detention ponds were added to the discharge route. More stringent effluent limitations are required in the draft permit than exist in the current permit. The monitoring frequency requirements are increased in the draft permit from the existing permit requirements.

An Interim three year compliance period is being established for CBOD<sub>5</sub>, TSS, and NH<sub>3</sub>-N at Outfall 001 according to the requirements of 30 TAC § 307.2(f) and 40 CFR § 122.47. A compliance schedule is included in the draft permit according to the requirements of 40 CFR § 122.47(a)(3). Other Requirement No. 8 was added to the draft permit for the compliance schedule.

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

The draft permit authorizes a daily average flow of 0.90 MGD in the Interim I phase, an annual average flow of 1.15 MGD in the Interim II phase, and an annual average flow of 2.0 MGD in the Final phase. The permittee is currently operating in the Interim I phase.

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.

Other Requirement No. 4 of the existing permit has been revised with the addition of the new plant site and Attachment B has been added to the draft permit.

Other Requirement No. 6 of the existing permit has been updated to correspond

with the Interim phases in the draft permit.

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

**Existing Discharge Route:** The treated effluent is discharged to Brazoria County Drainage District (BCDD) 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. **New Discharge Route:** The treated effluent is discharged to a ditch, thence to a series of detention ponds, thence to BCDD 5 Ditch No.101-10-00, thence to West Fork Chocolate Bayou, thence to Chocolate Bayou Above Tidal in Segment No. 1108 of the San Jacinto-Brazos Coastal Basin. The unclassified receiving water uses are minimal aquatic life use for the ditch and the BCDD 5 Ditch No. 101-10-00, limited aquatic life use for the detention ponds, and high aquatic life use for West Fork Chocolate Bayou. The designated uses for Segment No. 1108 are primary contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with 30 Texas Administrative Code Section 307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in West Fork Chocolate Bayou, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is

based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. Though the piping plover, *Charadrius melodus* Ord, can occur in Brazoria County, the county is north of Copano Bay and not a watershed of high priority per Appendix A of the biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1108 is currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). The listing is for bacteria in water from the salt water barrier (immediately downstream of the Chocolate Bayou Rice Canal) 5.2 km (3.2 mi) downstream of State Highway (SH) 35 in Brazoria County to SH 6 in Brazoria County (Assessment Unit 1108\_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued in the draft permit.

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 effluent limitations are consistent with the approved WQMP.

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

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Acute and chronic freshwater criteria are applied in the lake or reservoir.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate the dilution for acute and chronic protection of aquatic life for discharges into sections of lakes and reservoirs that are less than 200 feet wide. General assumptions used in the horizontal jet plume model are: a non-buoyant discharge, a submersed pipe, and no cross flow. The following critical effluent percentages are calculated based on the permitted flow of 2.0 MGD:

Acute Effluent % (stream):	100%	Chronic Effluent % (lake)	40%
Acute Effluent % (lake):	100%		

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 99<sup>th</sup> 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 99<sup>th</sup> percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards." The segment values are 143 mg/l for hardness (as calcium carbonate), 115 mg/l chlorides, 7.4 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 is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

**Ditch within 3 miles of a Detention Pond**

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 2.0 MGD and the harmonic mean flow of 1.49 cfs for West Fork Chocolate Bayou. The following critical effluent percentage is being used:

Human Health Effluent %: 67.5%

### **West Fork Chocolate Bayou**

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied in the lake or reservoir for a discharge to an intermittent stream that enters the lake or reservoir within 3 miles downstream of the discharge point. TCEQ uses the U.S. Environmental Protection Agency horizontal jet plume model to estimate dilution for discharges into sections of lakes or reservoirs that are less than 200 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 2.0 MGD:

Human Health Effluent %: 20%

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 99<sup>th</sup> percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment A of this Fact Sheet.

#### **(b) PERMIT ACTION**

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

#### **(4) DRINKING WATER SUPPLY PROTECTION**

##### **(a) SCREENING**

Water Quality Segment No. 1108, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

##### **(b) PERMIT ACTION**

None.

#### **(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA**

(a) SCREENING

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

The existing permit includes chronic freshwater biomonitoring requirements.

The applicant is not currently monitoring whole effluent toxicity because the requirements do not take effect until the Interim II phase. Therefore, there is no WET testing history to review. WET testing will commence within 90 days of initial discharge from the Interim II phase 1.15 MGD facility

(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.

No analytical data is available because the facility is operating in a phase with a design flow of less than 1.0 MGD.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. This facility is operating in a phase with a design flow of less than 1.0 MGD. Therefore, there is no WET testing history to review.

(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 Kimberly Kendall, P.E. at (512) 239-4540.

## 11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

### A. PERMIT(S)

TPDES Permit No. WQ0014546001 issued on June 26, 2019.

### B. APPLICATION

Application received on December 1, 2023, and additional information received on January 16, 2024 and May 1, 2024.

### C. MEMORANDA

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

### D. MISCELLANEOUS

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

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

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

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

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

## Attachment A: Calculated Water Quality Based Effluent Limitations

### TEXTTOX MENU #8 - INTERMITTENT STREAM WITHIN 3 MILES OF A LAKE/RESERVOIR

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

#### PERMIT INFORMATION

Permittee Name:	City of Iowa Colony
TPDES Permit No:	WQ0014546001
Outfall No:	001
Prepared by:	Kimberly Kendall, P.E.
Date:	5/9/25

#### DISCHARGE INFORMATION

<i>Intermittent Receiving Waterbody:</i>	a ditch
TSS (mg/L) (Intermittent):	11
pH (Standard Units) (Intermittent):	7.4
Hardness (mg/L as CaCO <sub>3</sub> ) (Intermittent):	143
Chloride (mg/L) (Intermittent):	115
Effluent Flow for Aquatic Life (MGD)	2.0
% Effluent for Acute Aquatic Life (Intermittent):	100
<i>Lake/Reservoir within 3 miles:</i>	a detention pond
Segment No.:	1108
TSS (mg/L) (Lake/Reservoir):	11
pH (Standard Units) (Lake/Reservoir):	7.4
Hardness (mg/L as CaCO <sub>3</sub> ) (Lake/Reservoir):	143
Chloride (mg/L) (Lake/Reservoir):	115
% Effluent for Chronic Aquatic Life (Lake/Reservoir):	40
% Effluent for Acute Aquatic Life (Lake/Reservoir):	100
Effluent Flow for Human Health (MGD):	2.0
% Effluent for Human Health (Lake/Reservoir):	20
Human Health Criterion (select: PWS, FISH, or INC)	INC

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

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
			264988.0				Assumed
Cadmium	6.60	-1.13	4	0.255		1.00	Assumed

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Chromium (total)	6.52	-0.93	356044.9 3	0.203	1.00	Assumed
Chromium (trivalent)	6.52	-0.93	356044.9 3	0.203	1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00
Copper	6.02	-0.74	177569.9 3	0.339	1.00	Assumed
Lead	6.45	-0.80	413890.8 8	0.180	1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00
Nickel	5.69	-0.57	124855.0 7	0.421	1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00
Silver	6.38	-1.03	202939.0 1	0.309	1.00	Assumed
Zinc	6.10	-0.70	234976.8 7	0.279	1.00	Assumed

<i>Lake/Reservoir Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
Cadmium	6.55	-0.92	390767.7 6	0.189		1.00	Assumed
Chromium (total)	6.34	-0.27	##### ####	0.074		1.00	Assumed
Chromium (trivalent)	6.34	-0.27	##### ####	0.074		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.45	-0.90	325646.6 3	0.218		1.00	Assumed
Lead	6.31	-0.53	572877.6 5	0.137		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	6.34	-0.76	353623.8 6	0.205		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	202939.0 1	0.309		1.00	Assumed
Zinc	6.52	-0.68	648414.8 8	0.123		1.00	Assumed

**AQUATIC LIFE**

**CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:**

<i>Parameter</i>	<i>FW Acute Criterion (int. stream) (µg/L)</i>	<i>FW Acute Criterion (lake) (µg/L)</i>	<i>FW Chronic Criterion (lake) (µg/L)</i>	<i>WLAa (int. stream) (µg/L)</i>	<i>WLAa (lake) (µg/L)</i>	<i>WLAc (lake) (µg/L)</i>	<i>LTAa (int. stream) (µg/L)</i>	<i>LTAa (lake) (µg/L)</i>	<i>LTAc (lake) (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
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							0.96				
Aldrin	3.0	3.0	N/A	3.00	3.00	N/A	1.72	0	N/A	1.41	2.98
Aluminum	991	991	N/A	991	991	N/A	568	317	N/A	466	986
Arsenic	340	340	150	651	651	718	373	208	438	306	647
Cadmium	12.15	12.15	0.315	47.6	64.4	4.18	27.3	20.6	2.55	3.74	7.92
								0.64			
Carbaryl	2.0	2.0	N/A	2.00	2.00	N/A	1.15	0	N/A	0.940	1.99
								0.76	0.006	0.008	0.018
Chlordane	2.4	2.4	0.004	2.40	2.40	0.0100	1.38	8	10	96	9
								0.02	0.062	0.039	0.082
Chlorpyrifos	0.083	0.083	0.041	0.0830	0.0830	0.103	0.0476	66	5	0	6
								332			
Chromium (trivalent)	764	764	99.3	3755	10383	3376	2151	2	2060	3027	6405
Chromium (hexavalent)	15.7	15.7	10.6	15.7	15.7	26.5	9.00	5.02	16.2	7.38	15.6
Copper	19.89	19.89	12.85	58.7	91.2	147	33.7	29.2	89.8	42.8	90.7
Cyanide (free)	45.8	45.8	10.7	45.8	45.8	26.8	26.2	14.7	16.3	21.5	45.5
								0.35	0.001	0.002	0.004
4,4'-DDT	1.1	1.1	0.001	1.10	1.10	0.00250	0.630	2	53	24	74
Demeton	N/A	N/A	0.1	N/A	N/A	0.250	N/A	N/A	0.153	0.224	0.474
								0.05		0.079	
Diazinon	0.17	0.17	0.17	0.170	0.170	0.425	0.0974	44	0.259	9	0.169
Dicofol [Kelthane]	59.3	59.3	19.8	59.3	59.3	49.5	34.0	19.0	30.2	27.8	59.0
								0.07	0.003	0.004	0.009
Dieldrin	0.24	0.24	0.002	0.240	0.240	0.00500	0.138	68	05	48	48
Diuron	210	210	70	210	210	175	120	67.2	107	98.7	208
								0.07	0.085		
Endosulfan I ( <i>alpha</i> )	0.22	0.22	0.056	0.220	0.220	0.140	0.126	04	4	0.103	0.218
								0.07	0.085		
Endosulfan II ( <i>beta</i> )	0.22	0.22	0.056	0.220	0.220	0.140	0.126	04	4	0.103	0.218
								0.07	0.085		
Endosulfan sulfate	0.22	0.22	0.056	0.220	0.220	0.140	0.126	04	4	0.103	0.218
								0.02	0.003	0.004	0.009
Endrin	0.086	0.086	0.002	0.0860	0.0860	0.00500	0.0493	75	05	48	48
								0.015	0.022	0.047	
Guthion [Azinphos Methyl]	N/A	N/A	0.01	N/A	N/A	0.0250	N/A	N/A	3	4	4
								0.16	0.006	0.008	0.018
Heptachlor	0.52	0.52	0.004	0.520	0.520	0.0100	0.298	6	10	96	9
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	1.126	1.126	0.08	1.13	1.13	0.200	0.645	0.36	0	0.122	0.179
Lead	95.1	95.1	3.71	528	694	67.7	303	222	41.3	60.6	128
								0.015	0.022	0.047	
Malathion	N/A	N/A	0.01	N/A	N/A	0.0250	N/A	N/A	3	4	4
								0.76			
Mercury	2.4	2.4	1.3	2.40	2.40	3.25	1.38	8	1.98	1.12	2.38
								0.045	0.067		
Methoxychlor	N/A	N/A	0.03	N/A	N/A	0.0750	N/A	N/A	8	2	0.142
								0.001	0.002	0.004	
Mirex	N/A	N/A	0.001	N/A	N/A	0.00250	N/A	N/A	53	24	74
Nickel	634	634	70.4	1504	3099	860	862	992	525	771	1632
Nonylphenol	28	28	6.6	28.0	28.0	16.5	16.0	8.96	10.1	13.1	27.8
								0.02	0.019	0.029	0.061
Parathion (ethyl)	0.065	0.065	0.013	0.0650	0.0650	0.0325	0.0372	08	8	1	6
Pentachlorophenol	13.0	13.0	10.00	13.0	13.0	25.0	7.47	4.17	15.3	6.13	12.9
Phenanthrene	30	30	30	30.0	30.0	75.0	17.2	9.60	45.8	14.1	29.8
								0.64	0.021	0.031	0.066
Polychlorinated Biphenyls [PCBs]	2.0	2.0	0.014	2.00	2.00	0.0350	1.15	0	4	3	3
Selenium	20	20	5	20.0	20.0	12.5	11.5	6.40	7.63	9.40	19.9
Silver	0.8	0.8	N/A	24.3	24.3	N/A	13.9	7.78	N/A	11.4	24.1
						0.00050		0.25	0.000	0.000	0.000
Toxaphene	0.78	0.78	0.0002	0.780	0.780	0	0.447	0	305	448	948



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								0.04	0.036	0.053	
Tributyltin [TBT]	0.13	0.13	0.024	0.130	0.130	0.0600	0.0745	16	6	8	0.113
2,4,5 Trichlorophenol	136	136	64	136	136	160	77.9	43.5	97.6	63.9	135
Zinc	158.7	158.7	160.0	569	1290	3252	326	413	1984	479	1013

**HUMAN HEALTH**

**CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS**

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	5750	5348	7860	16630
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000574	0.000533	0.000784	0.00165
Anthracene	1109	1317	13170	65850	61241	90023	190457
Antimony	6	1071	10710	53550	49802	73208	154882
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	29050	27017	39714	84021
Benidine	0.0015	0.107	1.07	5.35	4.98	7.31	15.4
Benzo(a)anthracene	0.024	0.025	0.25	1.25	1.16	1.70	3.61
Benzo(a)pyrene	0.0025	0.0025	0.025	0.125	0.116	0.170	0.361
Bis(chloromethyl)ether	0.0024	0.2745	2.745	13.7	12.8	18.7	39.6
Bis(2-chloroethyl)ether	0.60	42.83	428.3	2142	1992	2927	6193
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	378	351	516	1091
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	13750	12788	18797	39769
Bromoform [Tribromomethane]	66.9	1060	10600	53000	49290	72456	153291
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	2300	2139	3144	6652
Chlordane	0.0025	0.0025	0.025	0.125	0.116	0.170	0.361
Chlorobenzene	100	2737	27370	136850	127271	187087	395811
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	9150	8510	12508	26464
Chloroform [Trichloromethane]	70	7697	76970	384850	357911	526128	1113101
Chromium (hexavalent)	62	502	5020	25100	23343	34314	72596
Chrysene	2.45	2.52	25.2	126	117	172	364
Cresols [Methylphenols]	1041	9301	93010	465050	432497	635769	1345064
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.1000	0.0930	0.136	0.289
4,4'-DDE	0.0001	0.0001		0.0065			
	3	3	0.0013	0	0.00605	0.00888	0.0187
4,4'-DDT	0.0004	0.0004	0.004	0.0200	0.0186	0.0273	0.0578
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenprothrin]	262	473	4730	23650	21995	32331	68402
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	212	197	289	613
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	29750	27668	40671	86045
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	164950	153404	225503	477084
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	112	104	153	323
1,2-Dichloroethane	5	364	3640	18200	16926	24881	52639

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1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	275570 0	2562801	3767317	7970311
Dichloromethane [Methylene Chloride]	5	13333	133330	666650	619985	911377	1928151
1,2-Dichloropropane	5	259	2590	12950	12044	17703	37455
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	5950	5534	8134	17209
Dicofol [Kelthane]	0.30	0.30	3	15.0	14.0	20.5	43.3
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0010 0	0.000930	0.00136	0.00289
2,4-Dimethylphenol	444	8436	84360	421800	392274	576642	1219972
Di-n-Butyl Phthalate	88.9	92.4	924	4620	4297	6316	13362
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000 040	0.000003 7	0.000000 54	0.00001 15
Endrin	0.02	0.02	0.2	1.00	0.930	1.36	2.89
Epichlorohydrin	53.5	2013	20130	100650	93605	137598	291109
Ethylbenzene	700	1867	18670	93350	86816	127618	269996
Ethylene Glycol	46744	1.68E+07	1.68E+08	840000 000	7812000 00	1148364 000	2429532 000
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.0050 0	0.00465	0.00683	0.0144
Heptachlor Epoxide	0.0002 9	0.0002 9	0.0029	0.0145	0.0135	0.0198	0.0419
Hexachlorobenzene	0.0006 8	0.0006 8	0.0068	0.0340	0.0316	0.0464	0.0983
Hexachlorobutadiene	0.21	0.22	2.2	11.0	10.2	15.0	31.8
Hexachlorocyclohexane ( <i>alpha</i> )	0.0078	0.0084	0.084	0.420	0.391	0.574	1.21
Hexachlorocyclohexane ( <i>beta</i> )	0.15	0.26	2.6	13.0	12.1	17.7	37.5
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.2	0.341	3.41	17.1	15.9	23.3	49.3
Hexachlorocyclopentadiene	10.7	11.6	116	580	539	792	1677
Hexachloroethane	1.84	2.33	23.3	117	108	159	336
Hexachlorophene	2.05	2.90	29	145	135	198	419
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	799100	743163	1092449	2311236
Lead	1.15	3.83	38.3	1398	1300	1911	4044
Mercury	0.0122	0.0122	0.122	0.610	0.567	0.833	1.76
Methoxychlor	2.92	3.0	30	150	140	205	433
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	496000 00	4612800 0	6780816 0	1434580 80
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	524100	487413	716497	1515854
Nickel	332	1140	11400	278722	259212	381041	806148
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	93650	87095	128028	270863
N-Nitrosodiethylamine	0.0037	2.1	21	105	97.7	143	303
N-Nitroso-di-n-Butylamine	0.119	4.2	42	210	195	287	607
Pentachlorobenzene	0.348	0.355	3.55	17.8	16.5	24.2	51.3
Pentachlorophenol	0.22	0.29	2.9	14.5	13.5	19.8	41.9
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0320	0.0298	0.0437	0.0925
Pyridine	23	947	9470	47350	44036	64732	136950
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	12.0	11.2	16.4	34.7
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	1318	1225	1801	3810
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	14000	13020	19139	40492
Thallium	0.12	0.23	2.3	11.5	10.7	15.7	33.2
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.550	0.512	0.751	1.59

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2,4,5-TP [Silvex]	50	369	3690	18450	17159	25222	53362
				392177	3647246	5361451	1134293
1,1,1-Trichloroethane	200	784354	7843540	00	1	7	53
1,1,2-Trichloroethane	5	166	1660	8300	7719	11346	24006
Trichloroethylene [Trichloroethene]	5	71.9	719	3595	3343	4914	10397
2,4,5-Trichlorophenol	1039	1867	18670	93350	86816	127618	269996
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	825	767	1127	2386

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

	<b>70% of Daily Avg.</b>	<b>85% of Daily Avg.</b>
<b>Aquatic Life</b>		
<b>Parameter</b>	<b>(µg/L)</b>	<b>(µg/L)</b>
Aldrin	0.987	1.19
Aluminum	326	396
Arsenic	214	260
Cadmium	2.62	3.18
Carbaryl	0.658	0.799
	0.0062	0.0076
Chlordane	7	2
Chlorpyrifos	0.0273	0.0331
Chromium (trivalent)	2119	2573
Chromium (hexavalent)	5.16	6.27
Copper	30.0	36.4
Cyanide (free)	15.0	18.3
	0.0015	0.0019
4,4'-DDT	6	0
Demeton	0.156	0.190
Diazinon	0.0559	0.0679
Dicofol [Kelthane]	19.5	23.7
	0.0031	0.0038
Dieldrin	3	1
Diuron	69.1	83.9
Endosulfan I ( <i>alpha</i> )	0.0724	0.0879
Endosulfan II ( <i>beta</i> )	0.0724	0.0879
Endosulfan sulfate	0.0724	0.0879
	0.0031	0.0038
Endrin	3	1
Guthion [Azinphos Methyl]	0.0156	0.0190
	0.0062	0.0076
Heptachlor	7	2
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.125	0.152
Lead	42.4	51.5
Malathion	0.0156	0.0190
Mercury	0.790	0.959
Methoxychlor	0.0470	0.0571
	0.0015	0.0019
Mirex	6	0
Nickel	540	655
Nonylphenol	9.21	11.1
Parathion (ethyl)	0.0203	0.0247
Pentachlorophenol	4.29	5.21
Phenanthrene	9.87	11.9

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Polychlorinated Biphenyls [PCBs]	0.0219	0.0266
Selenium	6.58	7.99
Silver	8.00	9.71
	0.0003	0.0003
Toxaphene	13	81
Tributyltin [TBT]	0.0376	0.0457
2,4,5 Trichlorophenol	44.7	54.3
Zinc	335	407

	<i><b>70% of Daily Avg.</b></i>	<i><b>85% of Daily Avg.</b></i>
<b>Human Health</b>		
<i><b>Parameter</b></i>	<i><b>(µg/L)</b></i>	<i><b>(µg/L)</b></i>
Acrylonitrile	5502	6681
	0.0005	0.0006
Aldrin	48	66
Anthracene	63016	76520
Antimony	51245	62226
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	27799	33757
Benzidine	5.11	6.21
Benzo(a)anthracene	1.19	1.45
Benzo(a)pyrene	0.119	0.145
Bis(chloromethyl)ether	13.1	15.9
Bis(2-chloroethyl)ether	2049	2488
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	361	438
Bromodichloromethane [Dichlorobromomethane]	13158	15977
Bromoform [Tribromomethane]	50719	61587
Cadmium	N/A	N/A
Carbon Tetrachloride	2201	2672
Chlordane	0.119	0.145
Chlorobenzene	130961	159024
Chlorodibromomethane [Dibromochloromethane]	8756	10632
Chloroform [Trichloromethane]	368289	447209
Chromium (hexavalent)	24019	29167
Chrysene	120	146
Cresols [Methylphenols]	445038	540404
Cyanide (free)	N/A	N/A
4,4'-DDD	0.0956	0.116
	0.0062	0.0075
4,4'-DDE	2	5
4,4'-DDT	0.0191	0.0232
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	22632	27482
1,2-Dibromoethane [Ethylene Dibromide]	202	246
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	28469	34570
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	157852	191677
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	107	130

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1,2-Dichloroethane	17416	21149
1,1-Dichloroethylene [1,1-Dichloroethene]	263712	320221
Dichloromethane [Methylene Chloride]	2	9
1,2-Dichloropropane	637964	774670
1,3-Dichloropropene [1,3-Dichloropropylene]	12392	15048
Dicofol [Kelthane]	5693	6914
	14.3	17.4
Dieldrin	0.0009	0.0011
	56	6
2,4-Dimethylphenol	403649	490146
Di- <i>n</i> -Butyl Phthalate	4421	5368
	0.0000	0.0000
Dioxins/Furans [TCDD Equivalents]	038	046
Endrin	0.956	1.16
Epichlorohydrin	96319	116958
Ethylbenzene	89333	108475
	803854	976109
Ethylene Glycol	800	400
Fluoride	N/A	N/A
	0.0047	0.0058
Heptachlor	8	1
Heptachlor Epoxide	0.0138	0.0168
Hexachlorobenzene	0.0325	0.0395
Hexachlorobutadiene	10.5	12.7
Hexachlorocyclohexane ( <i>alpha</i> )	0.401	0.488
Hexachlorocyclohexane ( <i>beta</i> )	12.4	15.1
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	16.3	19.8
Hexachlorocyclopentadiene	555	673
Hexachloroethane	111	135
Hexachlorophene	138	168
4,4'-Isopropylidenediphenol [Bisphenol A]	764714	928582
Lead	1338	1624
Mercury	0.583	0.708
Methoxychlor	143	174
	474657	576369
Methyl Ethyl Ketone	12	36
Methyl <i>tert</i> -butyl ether [MTBE]	501547	609022
Nickel	266728	323884
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	89620	108824
N-Nitrosodiethylamine	100	122
N-Nitroso-di- <i>n</i> -Butylamine	200	244
Pentachlorobenzene	16.9	20.6
Pentachlorophenol	13.8	16.8
Polychlorinated Biphenyls [PCBs]	0.0306	0.0371
Pyridine	45312	55022
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	11.4	13.9
1,1,2,2-Tetrachloroethane	1260	1530
Tetrachloroethylene [Tetrachloroethylene]	13397	16268
Thallium	11.0	13.3
Toluene	N/A	N/A
Toxaphene	0.526	0.639

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2,4,5-TP [Silvex]	17656	21439
	375301	455723
1,1,1-Trichloroethane	62	40
1,1,2-Trichloroethane	7942	9644
Trichloroethylene [Trichloroethene]	3440	4177
2,4,5-Trichlorophenol	89333	108475
TTTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	789	958

**TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER**

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

Table 2, 2018 Texas Surface Water Quality Standards for Human Health

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

**PERMIT INFORMATION**

Permittee Name:	City of Iowa Colony
TPDES Permit No.:	WQ0014546001
Outfall No.:	001
Prepared by:	Kimberly Kendall, P.E.
Date:	May 9, 2025

**DISCHARGE INFORMATION**

Receiving Waterbody:	West Fork Chocolate Bayou
Segment No.:	1108
TSS (mg/L):	11
pH (Standard Units):	7.4
Hardness (mg/L as CaCO <sub>3</sub> ):	143
Chloride (mg/L):	115
Effluent Flow for Aquatic Life (MGD):	N/A
Critical Low Flow [7Q2] (cfs):	N/A
% Effluent for Chronic Aquatic Life (Mixing Zone):	N/A
% Effluent for Acute Aquatic Life (ZID):	N/A
Effluent Flow for Human Health (MGD):	2
Harmonic Mean Flow (cfs):	1.49
% Effluent for Human Health:	67.50
Human Health Criterion (select: PWS, FISH, or INC)	<b>FISH</b>

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

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	83134.89	0.522		1.00	Assumed
Cadmium	6.60	-1.13	264988.04	0.255		1.00	Assumed
Chromium (total)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	356044.93	0.203		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	177569.93	0.339		1.00	Assumed
Lead	6.45	-0.80	413890.88	0.180		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	124855.07	0.421		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	202939.01	0.309		1.00	Assumed

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Zinc	6.10	-0.70	234976.87	0.279		1.00	Assumed
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**HUMAN HEALTH**

**CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:**

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	170	158	232	492
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000170	0.0000158	0.0000232	0.0000491
Anthracene	1109	1317	13170	1951	1815	2667	5643
Antimony	6	1071	10710	1587	1476	2169	4589
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	861	801	1176	2489
Benidine	0.0015	0.107	1.07	0.159	0.147	0.216	0.458
Benzo(a)anthracene	0.024	0.025	0.25	0.0370	0.0344	0.0506	0.107
Benzo(a)pyrene	0.0025	0.0025	0.025	0.00370	0.00344	0.00506	0.0107
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.407	0.378	0.555	1.17
Bis(2-chloroethyl)ether	0.60	42.83	428.3	63.5	59.0	86.7	183
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	11.2	10.4	15.2	32.3
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	407	379	556	1178
Bromoform [Tribromomethane]	66.9	1060	10600	1570	1460	2146	4542
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	68.1	63.4	93.1	197
Chlordane	0.0025	0.0025	0.025	0.00370	0.00344	0.00506	0.0107
Chlorobenzene	100	2737	27370	4055	3771	5543	11727
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	271	252	370	784
Chloroform [Trichloromethane]	70	7697	76970	11403	10605	15589	32981
Chromium (hexavalent)	62	502	5020	744	692	1016	2151
Chrysene	2.45	2.52	25.2	3.73	3.47	5.10	10.7
Cresols [Methylphenols]	1041	9301	93010	13780	12815	18837	39854
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00296	0.00276	0.00405	0.00856
4,4'-DDE	0.00013	0.00013	0.0013	0.000193	0.000179	0.000263	0.000557
4,4'-DDT	0.0004	0.0004	0.004	0.000593	0.000551	0.000810	0.00171
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitrol [Fenpropathrin]	262	473	4730	701	652	958	2026
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	6.28	5.84	8.58	18.1
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	881	820	1205	2549
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	4887	4545	6681	14136
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	3.32	3.09	4.53	9.59
1,2-Dichloroethane	5	364	3640	539	502	737	1559
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	81652	75936	111626	236161
Dichloromethane [Methylene Chloride]	5	13333	133330	19753	18370	27004	57131
1,2-Dichloropropane	5	259	2590	384	357	524	1109
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	176	164	241	509
Dicofol [Kelthane]	0.30	0.30	3	0.444	0.413	0.607	1.28
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000296	0.0000276	0.0000405	0.0000856
2,4-Dimethylphenol	444	8436	84360	12498	11623	17086	36147
Di-n-Butyl Phthalate	88.9	92.4	924	137	127	187	395
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.18E-07	1.10E-07	1.61E-07	3.41E-07
Endrin	0.02	0.02	0.2	0.0296	0.0276	0.0405	0.0856
Epichlorohydrin	53.5	2013	20130	2982	2774	4077	8625

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Ethylbenzene	700	1867	18670	2766	2572	3781	8000
Ethylene Glycol	46744	1.68E+07	1.68E+08	24889341	23147087	34026218	71987441
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000148	0.000138	0.000202	0.000428
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000430	0.000400	0.000587	0.00124
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00101	0.000937	0.00137	0.00291
Hexachlorobutadiene	0.21	0.22	2.2	0.326	0.303	0.445	0.942
Hexachlorocyclohexane ( <i>alpha</i> )	0.0078	0.0084	0.084	0.0124	0.0116	0.0170	0.0359
Hexachlorocyclohexane ( <i>beta</i> )	0.15	0.26	2.6	0.385	0.358	0.526	1.11
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.2	0.341	3.41	0.505	0.470	0.690	1.46
Hexachlorocyclopentadiene	10.7	11.6	116	17.2	16.0	23.4	49.7
Hexachloroethane	1.84	2.33	23.3	3.45	3.21	4.71	9.98
Hexachlorophene	2.05	2.90	29	4.30	4.00	5.87	12.4
4,4'-Isopropylidenediphenol	1092	15982	159820	23677	22020	32369	68482
Lead	1.15	3.83	38.3	31.5	29.3	43.0	91.1
Mercury	0.0122	0.0122	0.122	0.0181	0.0168	0.0247	0.0522
Methoxychlor	2.92	3.0	30	4.44	4.13	6.07	12.8
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1469656	1366780	2009167	4250687
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	15529	14442	21229	44915
Nickel	332	1140	11400	4008	3728	5480	11593
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2775	2581	3793	8025
N-Nitrosodiethylamine	0.0037	2.1	21	3.11	2.89	4.25	8.99
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	6.22	5.79	8.50	17.9
Pentachlorobenzene	0.348	0.355	3.55	0.526	0.489	0.719	1.52
Pentachlorophenol	0.22	0.29	2.9	0.430	0.400	0.587	1.24
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000948	0.000882	0.00129	0.00274
Pyridine	23	947	9470	1403	1305	1918	4057
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.356	0.331	0.486	1.02
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	39.0	36.3	53.3	112
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	415	386	567	1199
Thallium	0.12	0.23	2.3	0.341	0.317	0.465	0.985
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0163	0.0152	0.0222	0.0471
2,4,5-TP [Silvex]	50	369	3690	547	508	747	1581
1,1,1-Trichloroethane	200	784354	7843540	1162027	1080685	1588607	3360930
1,1,2-Trichloroethane	5	166	1660	246	229	336	711
Trichloroethylene [Trichloroethene]	5	71.9	719	107	99.1	145	308
2,4,5-Trichlorophenol	1039	1867	18670	2766	2572	3781	8000
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	24.4	22.7	33.4	70.7

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	163	197
Aldrin	0.0000162	0.0000197
Anthracene	1867	2267
Antimony	1518	1843
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	823	1000
Benzidine	0.151	0.184



City of Iowa Colony TPDES Permit No. WQ0014546001  
Fact Sheet and Executive Director's Preliminary Decision

Benzo( <i>a</i> )anthracene	0.0354	0.0430
Benzo( <i>a</i> )pyrene	0.00354	0.00430
Bis(chloromethyl)ether	0.389	0.472
Bis(2-chloroethyl)ether	60.7	73.7
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	10.7	12.9
Bromodichloromethane [Dichlorobromomethane]	389	473
Bromoform [Tribromomethane]	1502	1824
Cadmium	N/A	N/A
Carbon Tetrachloride	65.2	79.1
Chlordane	0.00354	0.00430
Chlorobenzene	3880	4711
Chlorodibromomethane [Dibromochloromethane]	259	315
Chloroform [Trichloromethane]	10912	13250
Chromium (hexavalent)	711	864
Chrysene	3.57	4.33
Cresols [Methylphenols]	13186	16012
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00283	0.00344
4,4'-DDE	0.000184	0.000223
4,4'-DDT	0.000567	0.000688
2,4'-D	N/A	N/A
Danitrol [Fenpropathrin]	670	814
1,2-Dibromoethane [Ethylene Dibromide]	6.01	7.29
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	843	1024
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	4677	5679
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	3.17	3.85
1,2-Dichloroethane	516	626
1,1-Dichloroethylene [1,1-Dichloroethene]	78138	94882
Dichloromethane [Methylene Chloride]	18902	22953
1,2-Dichloropropane	367	445
1,3-Dichloropropene [1,3-Dichloropropylene]	168	204
Dicofol [Kelthane]	0.425	0.516
Dieldrin	0.0000283	0.0000344
2,4-Dimethylphenol	11960	14523
Di- <i>n</i> -Butyl Phthalate	131	159
Dioxins/Furans [TCDD Equivalents]	1.12E-07	1.37E-07
Endrin	0.0283	0.0344
Epichlorohydrin	2853	3465
Ethylbenzene	2646	3214
Ethylene Glycol	23818352	28922285
Fluoride	N/A	N/A
Heptachlor	0.000141	0.000172
Heptachlor Epoxide	0.000411	0.000499
Hexachlorobenzene	0.000964	0.00117
Hexachlorobutadiene	0.311	0.378
Hexachlorocyclohexane ( <i>alpha</i> )	0.0119	0.0144
Hexachlorocyclohexane ( <i>beta</i> )	0.368	0.447
Hexachlorocyclohexane ( <i>gamma</i> ) [Lindane]	0.483	0.587
Hexachlorocyclopentadiene	16.4	19.9
Hexachloroethane	3.30	4.01
Hexachlorophene	4.11	4.99
4,4'-Isopropylidenediphenol	22658	27514
Lead	30.1	36.6

City of Iowa Colony TPDES Permit No. WQ0014546001  
Fact Sheet and Executive Director's Preliminary Decision

Mercury	0.0172	0.0210
Methoxychlor	4.25	5.16
Methyl Ethyl Ketone	1406417	1707792
Methyl <i>tert</i> -butyl ether [MTBE]	14860	18045
Nickel	3836	4658
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2655	3224
N-Nitrosodiethylamine	2.97	3.61
N-Nitroso-di- <i>n</i> -Butylamine	5.95	7.23
Pentachlorobenzene	0.503	0.611
Pentachlorophenol	0.411	0.499
Polychlorinated Biphenyls [PCBs]	0.000907	0.00110
Pyridine	1342	1630
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.340	0.413
1,1,2,2-Tetrachloroethane	37.3	45.3
Tetrachloroethylene [Tetrachloroethylene]	396	482
Thallium	0.326	0.395
Toluene	N/A	N/A
Toxaphene	0.0155	0.0189
2,4,5-TP [Silvex]	523	635
1,1,1-Trichloroethane	1112025	1350316
1,1,2-Trichloroethane	235	285
Trichloroethylene [Trichloroethene]	101	123
2,4,5-Trichlorophenol	2646	3214
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	23.3	28.4



# TCEQ Core Data Form

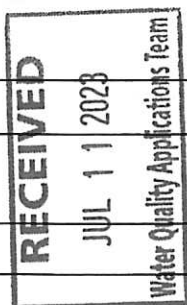
For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600241376		RN 101613925

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		6/1/2023	
<input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
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 Terramar Wastewater Treatment Plant					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	
				10. DUNS Number (if applicable)	
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input checked="" type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
12. Number of Employees		13. Independently Owned and Operated?			
<input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input checked="" type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		823 Rosenberg Street			
City		Galveston		State TX	
ZIP		77550		ZIP + 4	
16. Country Mailing Information (if outside USA)			17. E-Mail Address (if applicable)		
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	



**SECTION III: Regulated Entity Information****21. General Regulated Entity Information** (If 'New Regulated Entity' is selected, a new permit application is also required.)☐ New Regulated Entity ☒ Update to Regulated Entity Name ☐ Update to Regulated Entity Information*The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).***22. Regulated Entity Name** (Enter name of the site where the regulated action is taking place.)

City of Galveston

**23. Street Address of the Regulated Entity:**

3715 1/2 Laguna Drive

**(No PO Boxes)**

City

Galveston

State

TX

ZIP

77554

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:**

29.13583

**28. Longitude (W) In Decimal:**

-94.0575

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

**29. Primary SIC Code****30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

22132

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

Wastewater Treatment

**34. Mailing**

823 Rosenberg Street

**Address:**

City

Galveston

State

TX

ZIP

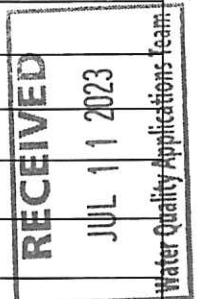
77550

ZIP + 4

**35. E-Mail Address:****36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

( 409 ) 797-3630

( ) -

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

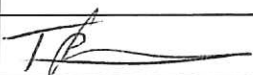
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review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

#### **SECTION IV: Preparer Information**

<b>40. Name:</b>	Cynthia Diaz	<b>41. Title:</b>	Wastewater Superintendent
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>
( 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.

<b>Company:</b>	City of Galveston	<b>Job Title:</b>	Director of Public Works
<b>Name (In Print):</b>	Trino Pedraza	<b>Phone:</b>	( 409 ) 797- 3630
<b>Signature:</b>		<b>Date:</b>	6-13-23





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
DOMESTIC WASTEWATER PERMIT APPLICATION  
CHECKLIST

Complete and submit this checklist with the application.

APPLICANT: City of Galveston

PERMIT NUMBER: WQ0010688005

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

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



ORIGINAL

For TCEQ Use Only

Segment Number 2424 County Galveston  
Expiration Date 2/26/2024 Region 12  
Permit Number WQ0010688005



Section 1. Application Fees (Instructions Page 29)

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

Mailed      Check/Money Order Number: 46002810  
 Check/Money Order Amount: 1,615.00  
 Name Printed on Check: Texas Commission on Environmental Quality

EPAY      Voucher Number:  

Copy of Payment Voucher enclosed?      Yes ☐

<input type="checkbox"/> New TPDES	<input type="checkbox"/> New TLAP
<input type="checkbox"/> Major Amendment <u>with</u> Renewal	<input type="checkbox"/> Minor Amendment <u>with</u> Renewal
<input type="checkbox"/> Major Amendment <u>without</u> Renewal	<input type="checkbox"/> Minor Amendment <u>without</u> Renewal
<input checked="" type="checkbox"/> Renewal without changes	<input type="checkbox"/> Minor Modification of permit

Expiration Date: February 26, 2024

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

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

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

City of 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.

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

**B. Co-applclicant 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-applclicant applying for this permit?

*(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-applclicant 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:

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

Prefix (Mr., Ms., Miss):

First and Last Name:

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

Title:

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



### C. Core Data Form

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

**Attachment:** A

## Section 4. Application Contact Information (Instructions Page 30)

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

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

First and Last Name: Cynthia Diaz

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

Title: Wastewater Superintendent

Organization Name: City of Galveston

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

Check one or both: ☒ Administrative Contact

☒ Technical Contact

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street

City, State, Zip Code: Galveston, Texas 77550

Phone No.: 409-797-3630 Ext.:

Fax No.:

E-mail Address: tpedraza@galvestontx.gov

Check one or both: ☒ Administrative Contact

☒ Technical Contact

## Section 5. Permit Contact Information (Instructions Page 30)

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

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

First and Last Name: Cynthia Diaz

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

Title: Wastewater Superintendent

Organization Name: City of Galveston

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

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street

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

Phone No.: 409-797-3630 Ext.:

Fax No.:

E-mail Address: tpedraza@galvestontx.gov

## Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street

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

Phone No.: 409-797-3630 Ext.:

Fax No.:

E-mail Address: tpedraza@galvestontx.gov

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

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

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

First and Last Name: Cynthia Diaz

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

Title: Wastewater Superintendent

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street

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

Phone No.: 409-789-4221 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: cdiaz@galvestontx.gov

DMR data is required to be submitted electronically. Create an account at:

<https://www.tceq.texas.gov/permitting/netdmr/netdmr.html>.

## Section 8. Public Notice Information (Instructions Page 31)

### A. Individual Publishing the Notices

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

First and Last Name: Cynthia Diaz

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

Title: Wastewater Superintendent

Organization Name: City of Galveston

Mailing Address: 823 Rosenberg Street

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

Phone No.: 409-789-4221 Ext.: [REDACTED]

Fax No.: [REDACTED]

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 person to be listed in the Notices

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

Organization Name: City of Galveston

Phone No.: 409-797-3630 Ext.: [REDACTED]

E-mail: 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: Galveston City Hall

Location within the building: Front Desk

Physical Address of Building: 823 Rosenberg Street

City: Galveston

County: Galveston

Contact Name: Trino Pedraza

Phone No.: 409-797-3630 Ext.: [REDACTED]

**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? \_\_\_\_\_

#### F. Public Involvement Plan Form

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

Attachment: N/A

### Section 9. Regulated Entity and Permitted Site Information (Instructions Page 33)

- A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN101613925

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):

Terramar Beach Wastewater Treatment Facility

- 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 (Mr., Ms., Miss): \_\_\_\_\_

First and Last Name: City of Galveston

Mailing Address: 823 Rosenberg Street

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

Phone No.: 409-797-3630

E-mail Address: \_\_\_\_\_

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

Attachment: N/A

- E. Owner of effluent disposal site:

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

**Attachment:** N/A

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

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

First and Last Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

**Attachment:** N/A

## Section 10. TPDES Discharge Information (Instructions Page 34)

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): Galveston

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

Outfall Latitude: 29.13583

Longitude: -94.0575

- 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:** \_\_\_\_\_

- D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.

N/A

## Section 11. TLAP Disposal Information (Instructions Page 36)

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

☐ Yes ☐ No

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

N/A

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

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

- D. Disposal Site Latitude: N/A Longitude: N/A

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

N/A

- F. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

N/A

## Section 12. Miscellaneous Information (Instructions Page 37)

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



☐ Yes ☒ No

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

☐ Yes ☒ No ☐ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

N/A

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

### Section 13. Attachments (Instructions Page 38)

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

- ☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☒ Original full-size USGS Topographic Map with the following information:
  - Applicant's property boundary
  - Treatment facility boundary
  - Labeled point of discharge for each discharge point (TPDES only)



- Highlighted discharge route for each discharge point (TPDES only)
  - Onsite sewage sludge disposal site (if applicable)
  - Effluent disposal site boundaries (TLAP only)
  - New and future construction (if applicable)
  - 1 mile radius information
  - 3 miles downstream information (TPDES only)
  - All ponds.
- ☐ Attachment 1 for Individuals as co-applicants
- ☐ Other Attachments. Please specify:

## Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010688005

Applicant: City of Galveston

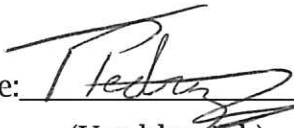
Certification:

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): Trino Pedraza

Signatory title: Director of Public Works

Signature: 

(Use blue ink)

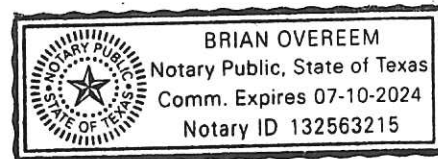
Date: 6-14-23

Subscribed and Sworn to before me by the said APPLICANT  
on this 14 day of JUNE, 20 23  
My commission expires on the 10 day of JULY, 20 24

  
Notary Public

Galveston  
County, Texas

[SEAL]



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## ATTACHMENT 1

### INDIVIDUAL INFORMATION

#### Section 1. Individual Information (Instructions Page 50)

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):

Full legal name (first, middle, last):

Driver's License or State Identification Number:

Date of Birth:

Mailing Address:

City, State, and Zip Code:

Phone Number:

Fax Number:

E-mail Address:

CN:

#### For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

## CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes  
*(Full-size map if seeking "New" permit.*  
*8 1/2 x 11 acceptable for Renewals and Amendments)*

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

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

### **Things to Know:**

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

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

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

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
DOMESTIC WASTEWATER PERMIT APPLICATION

**DOMESTIC TECHNICAL REPORT 1.0**

The Following Is Required For All Applications  
Renewal, New, And Amendment

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

**A. Existing/Interim I Phase**

Design Flow (MGD): 0.500 MGD

2-Hr Peak Flow (MGD): 1.500 MGD

Estimated construction start date: 2006

Estimated waste disposal start date: 2008

**B. Interim II Phase**

Design Flow (MGD): [REDACTED]

2-Hr Peak Flow (MGD): [REDACTED]

Estimated construction start date: [REDACTED]

Estimated waste disposal start date: [REDACTED]

**C. Final Phase**

Design Flow (MGD): 1.000 MGD

2-Hr Peak Flow (MGD): 3.000 MGD

Estimated construction start date: [REDACTED]

Estimated waste disposal start date: [REDACTED]

**D. Current operating phase: Existing/Intern I Phase**

Provide the startup date of the facility: 2008



**Section 2. Treatment Process (Instructions Page 51)**

**A. Treatment process description**

Provide a detailed description of the treatment process. **Include the type of**

**treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed in the permit, a description of each phase must be provided.** Process description:

**See Attachment B**

Port or pipe diameter at the discharge point, in inches: 24

#### **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***

<b>Treatment Unit Type</b>	<b>Number of Units</b>	<b>Dimensions (L x W x D)</b>
Final Phase		
SBR Basins	4	60' x 30' x 16'
Chlorine Contact Basins	2	109'-9" x 4' x 7'-10"
Aerobic Digesters	2	31' x 18' x 15'

#### **C. Process flow diagrams**

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

**Attachment:** See Attachment D

### Section 3. Site Drawing (Instructions Page 52)

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

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

**Attachment:** Attachment E

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

See Attachment F

### Section 4. Unbuilt Phases (Instructions Page 52)

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

Yes ☐

No ☒

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

Yes ☐

No ☐

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

N/A



## Section 5. Closure Plans (Instructions Page 53)

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

N/A

## Section 6. Permit Specific Requirements (Instructions Page 53)

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

### A. Summary transmittal

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

Yes ☒ No ☐

If yes, provide the date(s) of approval for each phase: Interim Phase I

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.

Not yet built.

### 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.

**C. Other actions required by the current permit**

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

Yes ☐ No ☒

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

N/A

**D. Grit and grease treatment**

***1. Acceptance of grit and grease waste***

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

Yes ☐ No ☒

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

***2. Grit and grease processing***

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

N/A

### **3. Grit disposal**

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

Yes ☐ No ☒

**If No**, contact the TCEQ Municipal Solid Waste team at 512-239-0000. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

N/A

### **4. Grease and decanted liquid disposal**

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-0000.

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

N/A

## **E. Stormwater management**

### **1. Applicability**

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

Yes ☐ No ☒

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

Yes ☐

No ☒

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

## ***2. MSGP coverage***

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

Yes ☐

No ☒

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

TXR05

or TXRNE

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

Yes ☐

No ☒

## ***3. Conditional exclusion***

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

Yes ☐

No ☒

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

N/A

## ***4. Existing coverage in individual permit***

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

Yes ☐

No ☒

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

N/A

### **5. Zero stormwater discharge**

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

Yes ☐

No ☒

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

N/A

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

### **6. Request for coverage in individual permit**

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

Yes ☐

No ☒

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

N/A

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

**F. Discharges to the Lake Houston Watershed**

Does the facility discharge in the Lake Houston watershed?

Yes ☐ No ☒

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

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

***1. Acceptance of sludge from other WWTPs***

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

Yes ☐ No ☒

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

In addition, provide the date that the plant started accepting sludge or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

## **2. Acceptance of septic waste**

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Yes ☐ No ☒

If yes to any of the above, provide a the date that the plant started accepting septic waste, or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

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

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

Yes ☐ No ☒

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



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

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).

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , mg/l	<2.0	<0.2	1	Effluent	6/7/2023
Total Suspended Solids, mg/l	2.3	2.3	1	Effluent	6/7/2023
Ammonia Nitrogen, mg/l	11.4	11.4	1	Effluent	6/7/2023
Nitrate Nitrogen, mg/l	4.53	4.53	1	Effluent	6/7/2023
Total Kjeldahl Nitrogen, mg/l	Pending			Effluent	6/7/2023
Sulfate, mg/l	71.5	71.5	1	Effluent	6/7/2023
Chloride, mg/l	180	180	1	Effluent	6/7/2023
Total Phosphorus, mg/l	0.375	0.375	1	Effluent	6/7/2023
pH, standard units	7.6	7.6	1	Effluent	6/7/2023
Dissolved Oxygen*, mg/l	4.5	4.5	1	Effluent	6/7/2023
Chlorine Residual, mg/l	2.1	2.1	1	Effluent	6/7/2023
<i>E.coli</i> (CFU/100ml) freshwater	NA	NA	NA		
Enterococci (CFU/100ml)	<10	<10	1	Effluent	6/7/2023



Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
saltwater					
Total Dissolved Solids, mg/l	484	484	1	Grab	6/7/2023
Electrical Conductivity, $\mu$ mohs/cm, †	1081	1081	1	Grab	6/7/2023
Oil & Grease, mg/l	Pending				
Alkalinity (CaCO <sub>3</sub> )*, mg/l	162	162	1	Grab	6/7/2023

\*TPDES permits only

†TLAP permits only

**Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities**

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	2.3	2.3	1	Grab	6/7/2023
Total Dissolved Solids, mg/l	484	484	1	Grab	6/7/2023
pH, standard units	7.6	7.6	1	Grab	6/7/2023
Fluoride, mg/l	Pending				
Aluminum, mg/l	Pending				
Alkalinity (CaCO <sub>3</sub> ), mg/l	162	162	1	Grab	6/7/2023

## Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Cynthia Diaz

Facility Operator's License Classification and Level: A

Facility Operator's License Number: WWW0035005

## Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

### A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the

following list. Check all that apply.

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

**B. Sludge disposal site**

Disposal site name: City of Galveston Main Wastewater Treatment Plant

TCEQ permit or registration number: WQ0010688001

County where disposal site is located: Galveston

**C. Sludge transportation method**

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

Name of the hauler: Chris 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 60)

### A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Yes ☐ No ☒

### B. Sludge processing authorization

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

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

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

Yes ☐ No ☐

## Section 11. Sewage Sludge Lagoons (Instructions Page 61)

Does this facility include sewage sludge lagoons?

Yes ☐ No ☒

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

### A. Location information

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

- Original General Highway (County) Map:

**Attachment:** [REDACTED]

- USDA Natural Resources Conservation Service Soil Map:

**Attachment:** [REDACTED]

- Federal Emergency Management Map:

**Attachment:** [REDACTED]

- Site map:

**Attachment:** [REDACTED]

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:** [REDACTED]

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

N/A

#### **B. Temporary storage information**

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

Nitrate Nitrogen, mg/kg: [REDACTED]

Total Kjeldahl Nitrogen, mg/kg: [REDACTED]

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: [REDACTED]

Phosphorus, mg/kg: [REDACTED]

Potassium, mg/kg: [REDACTED]

pH, standard units: [REDACTED]

Ammonia Nitrogen mg/kg: [REDACTED]

Arsenic: [REDACTED]

Cadmium: [REDACTED]

Chromium: [REDACTED]

Copper: [REDACTED]

Lead: [REDACTED]

Mercury: [REDACTED]

Molybdenum: [REDACTED]

Nickel: [REDACTED]

Selenium: [REDACTED]

Zinc: [REDACTED]

Total PCBs: [REDACTED]

Provide the following information:

Volume and frequency of sludge to the lagoon(s): [REDACTED]

Total dry tons stored in the lagoons(s) per 365-day period: [REDACTED]

[REDACTED]

Total dry tons stored in the lagoons(s) over the life of the unit: [REDACTED]

[REDACTED]

### C. Liner information

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

Yes ☐ No ☐

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

[REDACTED]

### D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the

lagoon(s):

Attach the following documents to the application.

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

**Attachment:**

- Copy of the closure plan

**Attachment:**

- Copy of deed recordation for the site

**Attachment:**

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

**Attachment:**

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

**Attachment:**

- Procedures to prevent the occurrence of nuisance conditions

**Attachment:**

#### **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:**

## **Section 12. Authorizations/Compliance/Enforcement**

### (Instructions Page 63)

#### A. Additional authorizations

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

Yes ☐ No ☒

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

N/A

#### B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

Yes ☐ No ☒

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

Yes ☐ No ☒

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

N/A

### Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

#### A. RCRA hazardous wastes

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

Yes ☐ No ☒

#### B. Remediation activity wastewater

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

Yes ☐ No ☒

**C. Details about wastes received**

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

Attachment: 



## Section 14. Laboratory Accreditation (Instructions Page 64)

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

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

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

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

### CERTIFICATION:

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

Printed Name: Trino Pedraza

Title: Director of Public Works

Signature: 

Date: 5-13-23

## DOMESTIC TECHNICAL REPORT WORKSHEET 2.0

### RECEIVING WATERS

The following is required for all TPDES permit applications

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

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

Yes ☐ No ☒

If yes, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

#### Section 2. Discharge into Tidally Affected Waters (Instructions Page 73)

Does the facility discharge into tidally affected waters?

Yes ☒ No ☐

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

##### A. Receiving water outfall

Width of the receiving water at the outfall, in feet: West Galveston Bay

##### B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

Yes ☐ No ☒

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

N/A

### C. Sea grasses

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

Yes ☐

No ☒

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

N/A

### Section 3. Classified Segments (Instructions Page 73)

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

Yes ☒

No ☐

If yes, this Worksheet is complete.

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

### Section 4. Description of Immediate Receiving Waters (Instructions Page 75)

Name of the immediate receiving waters: \_\_\_\_\_

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: \_\_\_\_\_

Average depth of the entire water body, in feet: \_\_\_\_\_

\_\_\_\_\_

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

☐ Man-made Channel or Ditch

- ☒ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify:

#### B. Flow characteristics

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

- ☒ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

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

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☒ Personal observation
- ☐ Other, specify:

#### C. Downstream perennial confluences

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

#### 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.

**E. Normal dry weather characteristics**

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

Low tide, clear water

Date and time of observation: 6/12/2023

Was the water body influenced by stormwater runoff during observations?

Yes ☐

No ☒

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

**A. Upstream influences**

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

☐ Oil field activities

☒ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify

**B. Waterbody uses**

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

☐ Livestock watering

☒ Contact recreation

☐ Irrigation withdrawal

☐ Non-contact recreation

☐ Fishing

☐ Navigation

☐ Domestic water supply

☐ Industrial water supply

☐ Park activities

☐ Other(s), specify

### C. Waterbody aesthetics

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

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

## DOMESTIC WORKSHEET 3.0

### LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications  
Renewal, New, and Amendments

#### Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- |   |  |
|---|--|
| <input type="checkbox"/> Surface application                    | <input type="checkbox"/> Subsurface application                |
| <input type="checkbox"/> Irrigation                             | <input type="checkbox"/> Subsurface soils absorption           |
| <input type="checkbox"/> Drip irrigation system                 | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation                            |  |
| <input type="checkbox"/> Evapotranspiration beds                |  |
| <input checked="" type="checkbox"/> Other (describe in detail): | Effluent is pumped to Bay                                      |

**NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.**

For existing authorizations, provide Registration Number:

#### Section 2. Land Application Site(s) (Instructions Page 77)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

*Table 3.0(1) - Land Application Site Crops*

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
NA			

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
NA			

### Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

*Table 3.0(2) - Storage and Evaporation Ponds*

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
NA				

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

**Attachment:** NA

### Section 4. Flood and Runoff Protection (Instructions Page 77)

Is the land application site within the 100-year frequency flood level?

Yes ☐ No ☒

If yes, describe how the site will be protected from inundation.

NA



Provide the source used to determine the 100-year frequency flood level:

NA

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

NA

### **Section 5. Annual Cropping Plan (Instructions Page 77)**

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why.

**Attachment:** NA

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

### **Section 6. Well and Map Information (Instructions Page 78)**

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

**Attachment:** NA

- The boundaries of the land application site(s)

- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1 mile of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

**Table 3.0(3) – Water Well Data**

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

**Attachment:**

## Section 7. Groundwater Quality (Instructions Page 79)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table

provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

**Attachment:** [REDACTED]

Are groundwater monitoring wells available onsite? Yes ☐ No ☐

Do you plan to install ground water monitoring wells or lysimeters around the land application site? Yes ☐ No ☒

If yes, then provide the proposed location of the monitoring wells or lysimeters on a site map.

**Attachment:** N/A

## Section 8. Soil Map and Soil Analyses (Instructions Page 79)

### A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

**Attachment:** N/A

### B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note:** for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

**Attachment:** N/A

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

**Table 3.0(4) - Soil Data**

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

### Section 9. Effluent Monitoring Data (Instructions Page 80)

Is the facility in operation?

Yes ☒ No ☐

If **no**, this section is not applicable and the worksheet is complete.

If **yes**, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

**Table 3.0(5) - Effluent Monitoring Data**

Date	30 Day Avg Flow MGD	BOD <sub>5</sub> mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
7/2021	0.276	8.02	6.52	7.1	1.89	NA
8/2021	0.482	2.43	7.35	7.04	2.05	NA
9/2021	0.513	3.48	3.54	7.12	1.80	NA
10/2021	0.410	2.10	1.65	7.27	1.75	NA
11/2021	0.220	2.0	2.35	7.26	1.99	NA
12/2021	0.202	2.02	2.40	6.08	1.82	NA
1/2022	0.192	4.20	1.78	7.29	2.03	NA
2/2022	0.187	2.15	1.98	7.37	2.16	NA
3/2022	0.250	3.08	4.58	7.30	2.24	NA
4/2022	0.234	2.00	1.38	7.14	1.80	NA
5/2022	0.282	2.30	2.60	7.12	1.65	NA
6/2022	0.350	2.22	1.78	7.23	1.64	NA

Date	30 Day Avg Flow MGD	BOD <sub>5</sub> mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
7/2022	0.393	4.15	4.02	7.28	1.69	NA
8/2022	0.320	2.30	2.48	7.12	3.00	NA
9/2022	0.274	2.13	1.15	7.00	2.17	NA
10/2022	0.222	2.08	1.20	7.05	1.96	NA
11/2022	0.320	2.2	2.08	7.20	1.53	NA
12/2022	0.345	2.33	2.03	7.35	1.75	NA
1/2023	0.292	2.20	1.13	7.4	2.1	NA
2/2023	0.212	2.35	1.63	7.25	1.49	NA
3/2023	0.266	2.16	1.18	7.30	1.58	NA
4/2023	0.277	2.00	2.08	7.34	1.94	NA
5/2023	0.320	2.80	1.30	7.37	2.17	NA
6/2023	0.385	3.23	3.88	7.57	2.32	NA

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

September 2021, Average flow exceeded due to Operators turning on Storm water pumps in parallel pushing all flow into plant.

**Attachments Permit Number (10688005) Terramar Beach  
Wastewater Plant**

**Attachment "A" Core Data Form**

**Attachment "B" Description of Treatment units**

**Attachment "C" USGS Map**

**Attachment "D" Process Flow Diagram**

**Attachment "E" Site Drawing**

**Attachment "F" Area Served**

**Attachment "G" Effluent Analysis**

## **Attachment "A"**

### **Core Data Form**

## **Attachment "B"**

### **Description of Treatment Units**



## Description of Treatment Unit

(Item 3.a – Page 1)

The treatment process for phase II will be the same as phase I, Sequential Batch Reactors (SBR). The SBR is a non-steady state activated sludge process in which a reactor basin is filled with wastewater during a discrete time period and then operated in batch treatment mode. In the reactor basins (4), the SBR performs equalization, aeration and clarification in a time sequence.

The existing Headworks consist of two inlet channels equipped with automatic mechanical bar screens and a grit removal device. The screen deposit all collected material into a screening compactor which discharges to a dumpster. The grit removal device consists of a stainless steel chamber and a separate classifier. The grit removal pump removes the grit from the bottom of the chamber to the classifier. Supernatant from the chamber flows over a weir and into the SBR basins (4).

Each SBR basin is designed to act as an aeration tank and clarifier during the course of one cycle. Treatment begins with a 2-hour aeration mode in which fine air bubblers, located on the floor of the basin, supply air to the contents of the basin. At the end of the aeration mode, the air is turned off and the basin goes through a 1-hour settling mode at which time solids are permitted to settle to the bottom of the basin. At the end of this mode the basin enters a final 1-hour decant mode prior to restarting with an aeration mode.

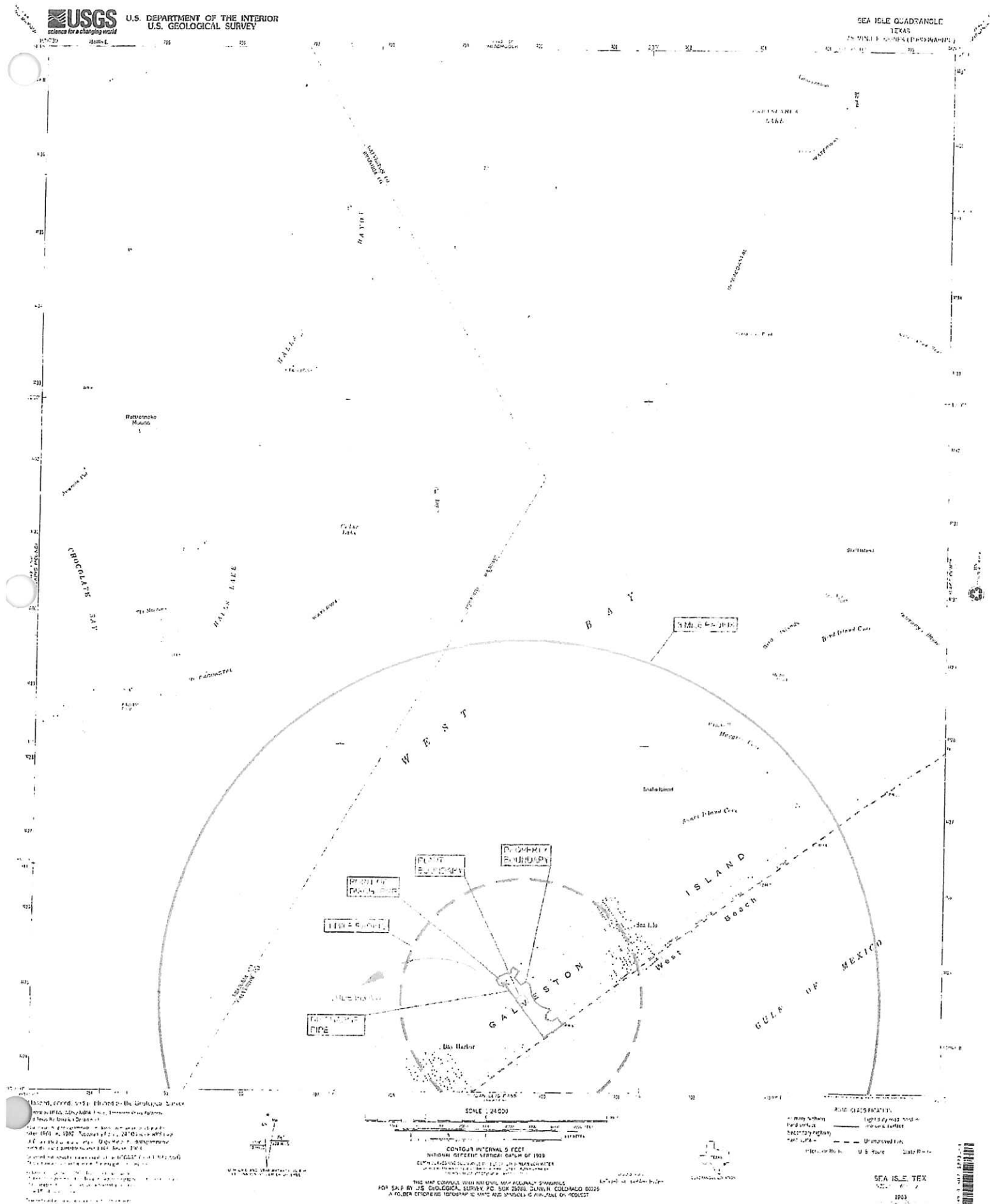
During the decant cycle; a baffled weir is lowered into the basin to remove the settled supernatant. An 18-inch diameter pipe conveys the settled supernatant to the existing chlorine contact basin where chlorine solution is added. Waste sludge is also removed during this cycle.

Waste sludge is pumped to the thickener followed by aerobic digestion. Sludge will be removed via suction through a 4-inch diameter pipe from the second sludge-holding unit into a transport vehicle and taken to the City of Galveston's main wastewater treatment plant for dewatering and disposal.

The existing chlorine contact basin consists of two separate channels that provide the required 20-minute retention time. The existing contact basin was design to accommodate a future (Phase II) flow rate of 1.0 MGD. The effluent discharges via a 24-inch pipe to Galveston Bay.

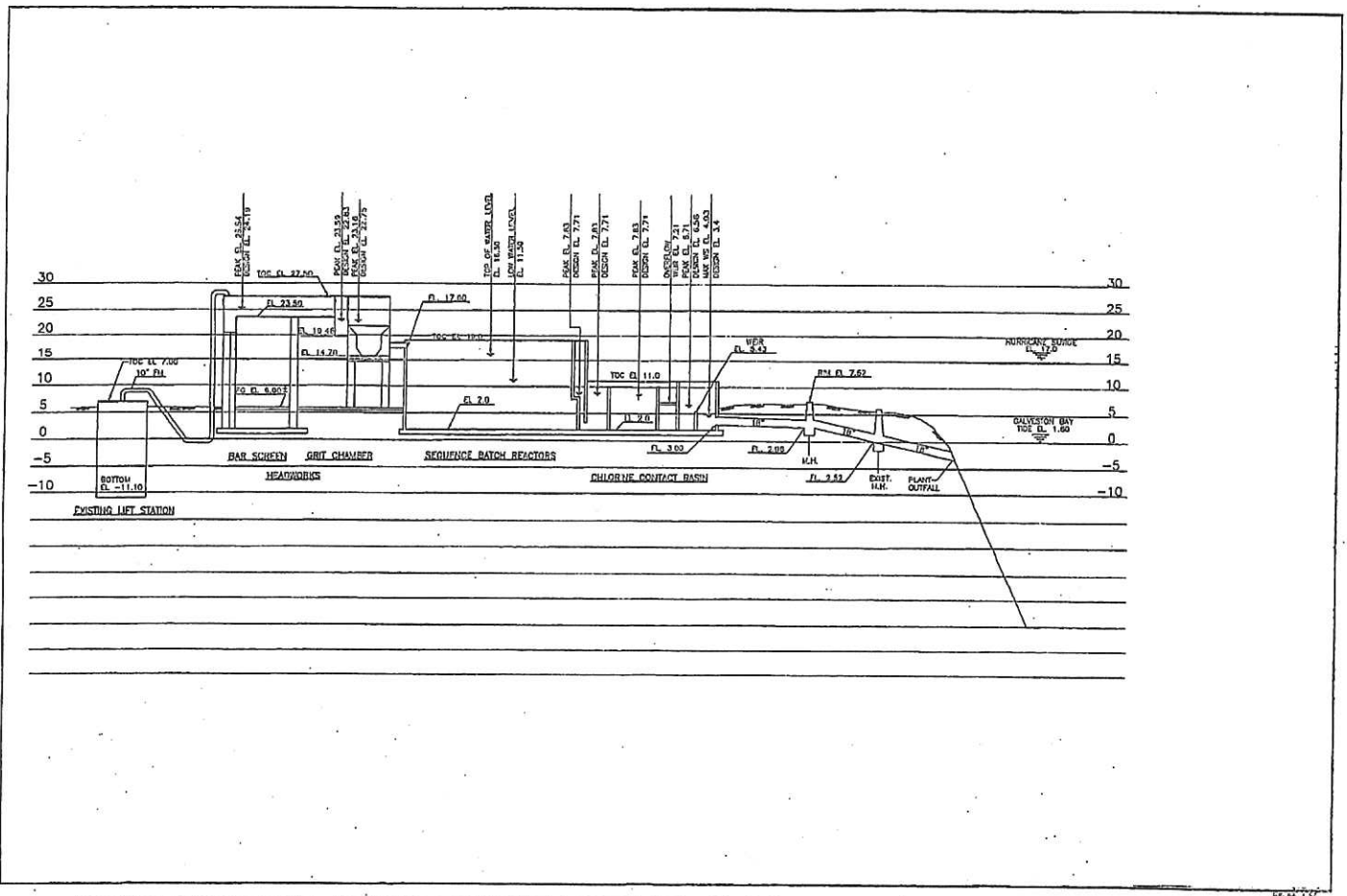
## **Attachment "C"**

**USGS Map**



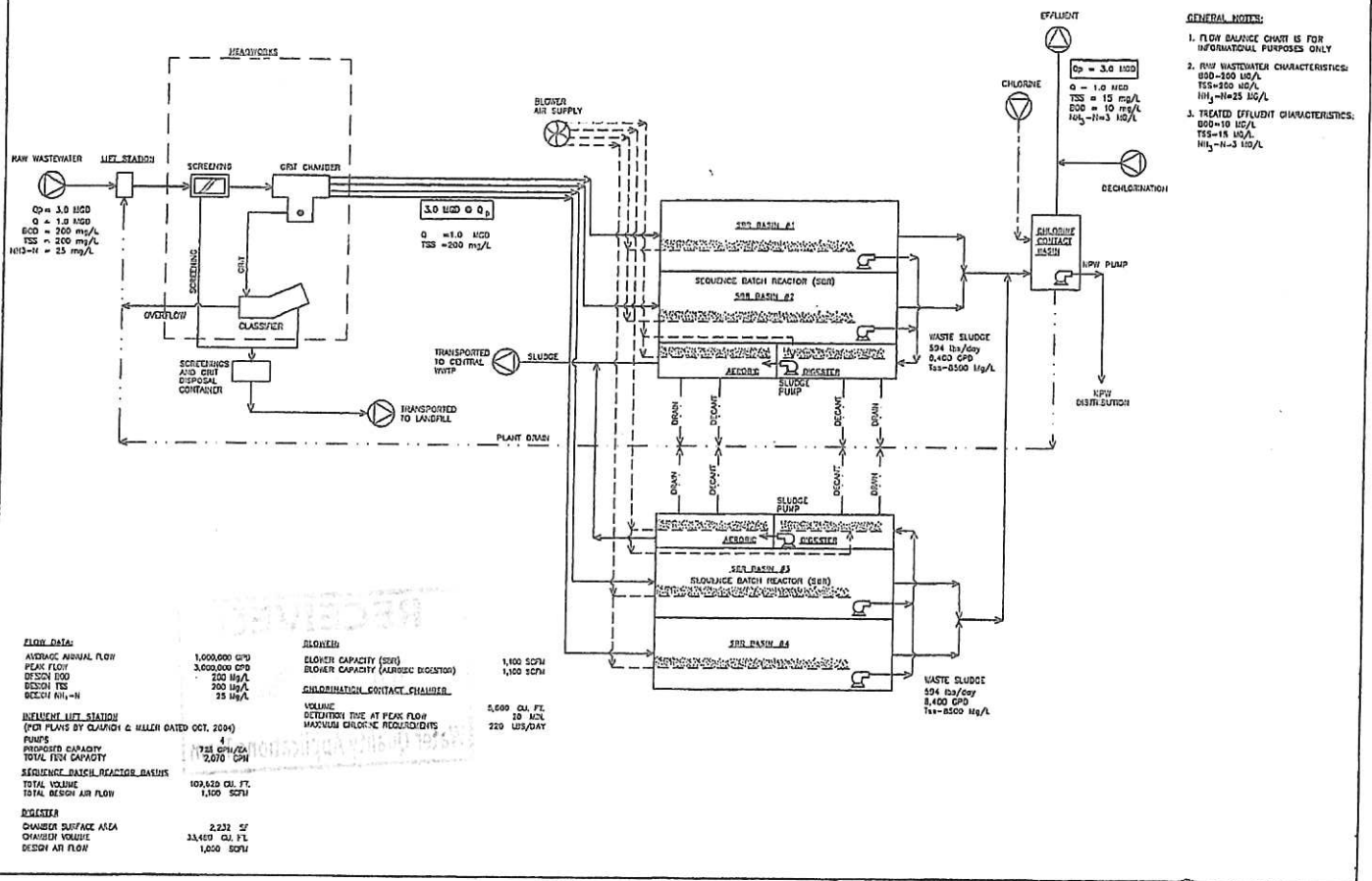
## **Attachment "D"**

### **Process Flow Diagram**



## **Attachment "E"**

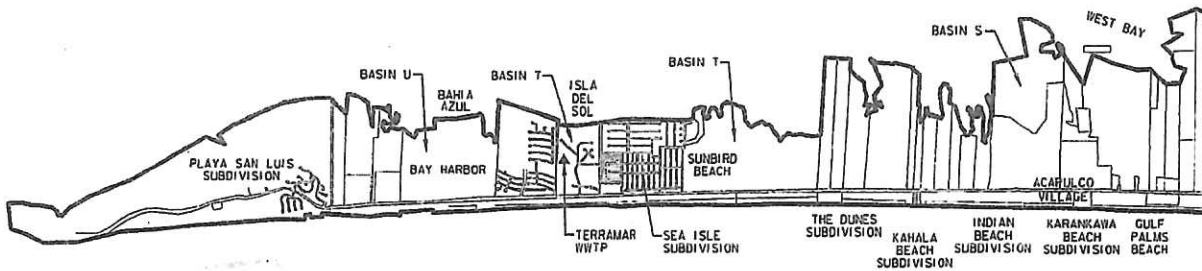
### **Site Drawing**



## **Attachment "F"**

**Area Served**





RECEIVED  
JUN 1 1970  
City of Galveston

BRUCE PARKER  
CITY ENGINEER  
JUN 1 1970

SCALE: 1"=4000'



Dannertown Engineering Corporation  
3400 WEST ALABAMA STREET, SUITE 100, HOUSTON, TEXAS 77056

TERRAMAR WWT  
SERVICE AREA

DATE: JUN, 1970

## **Attachment "G"**

### **Effluent Analyss**



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



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

## LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Short Permit Renewal

Sample Site:	EFF PR	Sample Number:	C3F0550-01			Collector:	AC		
Sample Type:	Grab					Sampled:	06/07/2023	8:50	
Sample Matrix:	Water					Received:	06/07/2023	14:00	
Client Matrix:	Water								
Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed	Analyst	Method	Notes
Chlorine	2.1	0.1	mg/L	N	B3F1126	06/07/2023 08:50	Clic	SM 4500 ClF	
DO	4.5		mg/L	N	B3F1126	06/07/2023 08:50	Clic	SM 4500 O G	
pH	7.6		std unit	N	B3F1126	06/07/2023 08:50	Clic	SM 4500 H + B	
Alkalinity	162	20.0	mg CaCO <sub>3</sub> /L	A	B3F1308	06/08/2023 11:00	KRH	SM 2320 B	
Ammonia as N	11.4	0.1	mg/L	A	B3F1212	06/09/2023 14:10	SAC	SM 4500 NH3 G	
CBOD 5	<2.0	2.0	mg/L	A	B3F1202	06/08/2023 08:00	ANA	SM 5210 B	1, 13
Chloride	180	5.0	mg/L	A	B3F1264	06/08/2023 10:08	TDS	EPA 300.0	13
Conductivity	1081	10	µmhos/cm @ 25C	A	B3F1567	06/09/2023 16:20	BJP	SM 2510 B	
Enterococcus	<10	10	mpn/100ml	A	B3F1277	06/07/2023 16:14	HIS	Enterolert IDEXX	
Nitrate as N	4.53	0.05	mg/L	A	B3F1264	06/08/2023 10:08	TDS	EPA 300.0	
Sulfate	71.5	4.0	mg/L	A	B3F1264	06/08/2023 10:08	TDS	EPA 300.0	
TDS	484	10.0	mg/L	A	B3F1557	06/09/2023 13:40	BJP	SM 2540 C	
Total Phosphorus	0.375	0.0600	mg/L	A	B3F1399	06/09/2023 14:23	KJH	EPA 200.7	
TSS	2.3	1.0	mg/L	A	B3F1239	06/08/2023 10:08	WLS	SM 2540 D	25



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



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

**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
<b>Batch B3F1202 - No Prep</b>										
<b>Blank (B3F1202-BLK1)</b>				Prepared & Analyzed: 06/08/23						
CBOD 5	0.334	2.0	mg/L							1
<b>LCS (B3F1202-BS1)</b>				Prepared & Analyzed: 06/08/23						
CBOD 5	148		mg/L	198		74.7	84.59-115.4			1, 13
<b>Duplicate (B3F1202-DUP1)</b>				Source: C3F0550-01 Prepared & Analyzed: 06/08/23						
CBOD 5	1.72	2.0	mg/L		1.54			11.0	30	1, 13
<b>Batch B3F1212 - No Prep</b>										
<b>Blank (B3F1212-BLK1)</b>				Prepared & Analyzed: 06/09/23						
Ammonia as N	ND	0.1	mg/L							
<b>LCS (B3F1212-BS1)</b>				Prepared & Analyzed: 06/09/23						
Ammonia as N	2.00		mg/L	2.00		100	90-110			
<b>Matrix Spike (B3F1212-MS1)</b>				Source: C3F0550-01 Prepared & Analyzed: 06/09/23						
Ammonia as N	13.6	0.1	mg/L	2.50	11.4	89.3	80-120			
<b>Matrix Spike Dup (B3F1212-MSD1)</b>				Source: C3F0550-01 Prepared & Analyzed: 06/09/23						
Ammonia as N	13.1	0.1	mg/L	2.50	11.4	68.6	80-120	3.87	20	
<b>Batch B3F1239 - No Prep</b>										
<b>Blank (B3F1239-BLK1)</b>				Prepared & Analyzed: 06/08/23						
TSS	ND	1.0	mg/L							
<b>Duplicate (B3F1239-DUP1)</b>				Source: C3F1783-01 Prepared & Analyzed: 06/08/23						
TSS	194	1.0	mg/L		192			1.04	10	



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



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

**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
<b>Batch B3F1264 - No Prep</b>										
<b>Blank (B3F1264-BLK1)</b>				Prepared & Analyzed: 06/08/23						
Chloride	ND	5.0	mg/L							
Nitrate as N	ND	0.05	mg/L							
Sulfate	ND	4.0	mg/L							
<b>LCS (B3F1264-BS1)</b>				Prepared & Analyzed: 06/08/23						
Chloride	28.7		mg/L	25.0		115	90-110			13
Nitrate as N	1.6523		mg/L	1.50		110	90-110			
Sulfate	21.9		mg/L	20.0		110	90-110			
<b>Matrix Spike (B3F1264-MS1)</b>				Source: C3F0550-01		Prepared & Analyzed: 06/08/23				
Chloride	319	5.0	mg/L	125	180	111	80-120			13
Nitrate as N	11.9367	0.05	mg/L	7.50	4.5299	98.8	80-120			
Sulfate	176	4.0	mg/L	100	71.5	104	80-120			
<b>Matrix Spike Dup (B3F1264-MSD1)</b>				Source: C3F0550-01		Prepared & Analyzed: 06/08/23				
Chloride	319	5.0	mg/L	125	180	111	80-120	0.0177	20	13
Nitrate as N	11.6087	0.05	mg/L	7.50	4.5299	94.4	80-120	2.79	20	
Sulfate	176	4.0	mg/L	100	71.5	104	80-120	0.182	20	
<b>Batch B3F1277 - No Prep Micro</b>										
<b>Blank (B3F1277-BLK1)</b>				Prepared & Analyzed: 06/07/23						
Enterococcus	ND	1	mpn/100ml							
<b>Duplicate (B3F1277-DUP1)</b>				Source: C3F1631-01		Prepared & Analyzed: 06/07/23				
Enterococcus	ND	10	mpn/100ml		ND				200	



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

SM 2320 B - Quality Control  
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1308 - No Prep</b>										
<b>Blank (B3F1308-BLK1)</b>					Prepared & Analyzed: 06/08/23					
Alkalinity	ND	20.0	mg CaCO <sub>3</sub> /L							
<b>LCS (B3F1308-BS1)</b>					Prepared & Analyzed: 06/08/23					
Alkalinity	46.0		mg CaCO <sub>3</sub> /L	50.0		92.0	80-120			
<b>Duplicate (B3F1308-DUP1)</b>					Source: C3F0550-01 Prepared & Analyzed: 06/08/23					
Alkalinity	166	20.0	mg CaCO <sub>3</sub> /L		162			2.44	20	
<b>Batch B3F1399 - EPA 200.7</b>										
<b>Blank (B3F1399-BLK1)</b>					Prepared: 06/08/23 Analyzed: 06/09/23					
Total Phosphorus	ND	0.0600	mg/L							
<b>LCS (B3F1399-BS1)</b>					Prepared: 06/08/23 Analyzed: 06/09/23					
Total Phosphorus	2.55	0.0600	mg/L	2.52		101	85-115			
<b>Matrix Spike (B3F1399-MS1)</b>					Source: C3E1116-01 Prepared: 06/08/23 Analyzed: 06/09/23					
Total Phosphorus	2.82	0.0600	mg/L	2.52	0.0480	110	70-130			
<b>Matrix Spike Dup (B3F1399-MSD1)</b>					Source: C3E1116-01 Prepared: 06/08/23 Analyzed: 06/09/23					
Total Phosphorus	2.95	0.0600	mg/L	2.52	0.0480	115	70-130	4.52	20	
<b>Batch B3F1557 - No Prep</b>										
<b>Blank (B3F1557-BLK1)</b>					Prepared & Analyzed: 06/09/23					
TDS	ND	10.0	mg/L							
<b>LCS (B3F1557-BS1)</b>					Prepared & Analyzed: 06/09/23					
TDS	252		mg/L	300		84.0	80-120			
<b>Duplicate (B3F1557-DUP1)</b>					Source: C3F0550-01 Prepared & Analyzed: 06/09/23					
TDS	504	10.0	mg/L		484			4.05	10	

Eastex Environmental Laboratory - Coldspring

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. Alkalinity titrated to pH 4.5 endpoint.

\*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved  
Coldspring All Inclusive YesQC.rpt Rev 6: 06242021

Report Date: 06/16/23 13:40

Page 4 of 5



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



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

SM 2510 B - Quality Control  
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3F1567 - No Prep</b>										
<b>Blank (B3F1567-BLK1)</b>					Prepared & Analyzed: 06/09/23					
Conductivity	ND	10	µmhos/cm @25C							
<b>LCS (B3F1567-BS1)</b>					Prepared & Analyzed: 06/09/23					
Conductivity	1018		µmhos/cm @25C	1000		102	80-120			
<b>Duplicate (B3F1567-DUP1)</b>					Source: C3F0550-01 Prepared & Analyzed: 06/09/23					
Conductivity	1081	10	µmhos/cm @25C		1081			0.00	20	

Mark Bourgeois, Special Projects Manager

Qualifiers

- 25 Residue not in the method range of 2.5-200 mg.
- 13 LCS associated with sample batch outside of acceptance limits.
- 1 Dilution water blank > 0.20 mg/L DO uptake.



# EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 • Coldspring, TX 77331  
(936) 653-3249 • (800) 525-0508  
www.eastexlabs.com

White Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy

## REPORT TO:

Company: C/O Galveston  
Address: ON FILE

Attn:

Phone#:

Email:

F.O. #:

Sampler's Name (print):  
Miguel Gonzalez

Sampler's Signature:

Project Name: GAL TETAMAR PR

## INVOICE TO:

Company:

Address: SAME

Attn:

Phone#:

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

## Remarks:

pH - 7.6  
D.O - 4.5  
no preserv. added  
BYS - preserved 6/7/23

INVOICE TO: 8:40 AM

ANALYSIS REQUESTED

CRDS, TSS, TDS, Alk, Cond, Cl, Mg, SO<sub>4</sub>

NH<sub>3</sub>, TKN

TP

Enk<sub>3</sub>

## Field Data

## Containers

Work Order ID	Sample ID	Date	Time	Matrix	C or G	DO	pH	Cl <sub>2</sub>	Flow	Temp	#	Size	Type	Pres
C3F0550	EFF	6-7-23	8:40	WW	G	4.5	7.6	2.1			5	34P	P	C
	EFF	6-7-23	8:40	WW	G						2	5	P	STC
	EFF	6-7-23	8:40	WW	G						1	5	P	NLC
	EFF	6-7-23	8:50	WW	G						1	6	PS	STC

Relinquished By:

Relinquished By:

Relinquished By:

LAB USE ONLY

Alternate Check In:

Received By: B-S

Received By:

Received By: B-S

Received By:

Date 6-7-23

Date

Date 6-7-23

Date

Time 0940

Time

Time 1400

Time

Received Iced: YES / NO

Received Iced: YES / NO

Received Iced: YES / NO

Received Iced: YES / NO

Date 6-7-23

Time 1417

\*Thermometer has 0.0 factor and recorded temperature is actual temperature



# Texas Commission on Environmental Quality

## INTEROFFICE MEMORANDUM

To: Deba Dutta, P.E., Team Leader  
Municipal Team, Wastewater Permitting Section

Date: 6/11/2025

From: Garrison Layne, Municipal Permits Team

**JAM III**  
**June 5, 2025**

APPLICANT: City of Galveston  
PLANT NAME: Terramar WWTP  
TPDES PERMIT NO: WQ0010688005

EPA ID No: TX0066125

FILE LOCATION: WQ0010688005 Working Folder

Admin Complete Date:	08/23/2023	Pretreatment Memo:	10/03/2023
Standards Memo:	08/24/2023	Assign Date:	07/03/2024
Critical Condition Memo:	08/31/2023	Tech Complete Date:	06/06/2025
Modeling Memo:	9/06/2023	RFI Letter Date:	
Biomonitoring Memo:	09/07/2023	Response Letter Date:	

☒ Public Domestic  
☐ Private Domestic

### PERMIT TYPE

☒ Discharge (TPDES)  
☐ Land Application

☒ Major (> 1 MGD)

### PERMIT ACTION

Renewal

### PERMIT PACKAGE

YES NO

<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transmittal letter to applicant
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transmittal letter to EPA
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Fact Sheet and ED Preliminary Decision for major TPDES Permit
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Permit Draft
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Biomonitoring Requirements for Major TPDES Permits
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pretreatment Requirements for POTWs
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Authorization to land apply or dispose of Class B Biosolids or sewage sludge on property adjacent to
<input type="checkbox"/>	<input checked="" type="checkbox"/>	WWTP in draft permit.
		Includes appropriate other requirements (including quarterly and annual reporting, soil monitoring, language in notice and fact sheet, attachments.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	EPA REVIEW CHECKLIST
<input checked="" type="checkbox"/>	<input type="checkbox"/>	FACILITY PROCESS FORM for PARIS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	TEXTTOX Printout in file
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NOTICE for admin complete on or after 9/1/99
<input checked="" type="checkbox"/>	<input type="checkbox"/>	CAPTION (also saved in I:\EVERYONEwq\CAPTION)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Legislative Notice (SB709) required (saved in I:\WQ\Muni\LEGISLATIVE NOTICE)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MAJOR/MINOR DETERMINATION if needed
<input checked="" type="checkbox"/>	<input type="checkbox"/>	LOCATED IN THE COASTAL ZONE (if located in coastal zone, include <b>CMP Threshold Sheet</b> )
<input checked="" type="checkbox"/>	<input type="checkbox"/>	SPELLCHECK: DRAFT PERMIT/TECH SUM/SOB/FACT SHEET/NOTICE/LETTER(S)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>SCHEDULE FOR ERC Part A: All major permits and permits in Edwards Aquifer area are scheduled for ERC</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Located in the Edwards Aquifer area:
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>COMPLIANCE HISTORY: CN = (Satisfactory) 2.91 and RN = (Satisfactory) 11.46</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ENFORCEMENT ORDER(S); ERC Part C on January 7, 2025.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CHANGES TO THE DRAFT PERMIT based on discussion at ERC

**COMMENTS:** The applicant has applied for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at a daily average flow not to exceed 0.50 MGD in the Interim phase and 1.0 million gallons per day (MGD) in the Final phase. The facility address has been updated from the existing permit from the facility is located approximately 4.5 miles north of the San Luis Bridge and 1,900 feet west of San Luis Pass Road (Farm-to-Market Road 3005), in Galveston County, Texas 77553 to the facility is located at 3715 1/2 Laguna Drive, in the City of Galveston, Galveston County, Texas 77554. A Total Copper Reporting Requirement has been added to the draft permit. Other Requirement No. 10 has been added to the draft permit.

**Request for Comments on Draft Permit  
TCEQ – Water Quality Division**

**Phone: (512)239-4671**

**Fax: (512)239-4430**

**Mailing Address: TCEQ, Water Quality Division, P.O. Box 13087, Austin, TX 78711-3087**

**TO: Region: 12**

**Submitted by: Garrison Layne E-Mail ID: garrison.layne@tceq.texas.gov Phone: (512) 239-0849**

**Date Request Submitted:**

**Comments Deadline: Within 7 days**

**Date Application Received by TCEQ in Austin: July 11, 2023**

**REGIONAL OFFICES:** The entity below has submitted an application for the project referenced below in accordance with regulations of the TCEQ. Please return comments ASAP, but no later than the comments deadline, which is 10 days from the submittal date. Permit disposition will proceed after comments are received or after the comments deadline has passed. If no comments are received within this time frame, we will assume you have no comments or objections to the project as proposed. Please return a complete copy of the form (both sides) with your comments.

**PROJECT TYPE: Renewal**

**TEAM ASSIGNED: MUNICIPAL**

**APPLICATION TYPE: ☒ TPDES ☐ TLAP**

**REGULATED ENTITY NO.: RN101613925**

**PERMIT NO.: WQ0010688005**

**CUSTOMER REFERENCE NO.: CN600241376**

**COMPANY NAME: City of Galveston**

**PLANT NAME: Terramar WWTP**

**ADDRESS: 823 Rosenberg Street, Galveston, Texas 77550**

**SEGMENT: 2424**

**COUNTY: Galveston**

**TECHNICAL CONTACT: Mr. Tyson Arnold**

**PHONE: 409-797-3640**

**PERMIT CLASSIFICATION: MAJOR**

**COMPLIANCE RATING: CN = (Satisfactory) 2.91 and RN = (Satisfactory) 11.46**

**SUMMARY OF APPLICATION REQUEST:** The applicant has applied for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at a daily average flow not to exceed 0.50 MGD in the Interim phase and 1.0 million gallons per day (MGD) in the Final phase.

**PERMIT WRITER COMMENTS:** The facility address has been updated from the existing permit from the facility is located approximately 4.5 miles north of the San Luis Bridge and 1,900 feet west of San Luis Pass Road (Farm-to-Market Road 3005), in Galveston County, Texas 77553 to the facility is located at 3715 1/2 Laguna Drive, in the City of Galveston, Galveston County, Texas 77554. A Total Copper Reporting Requirement has been added to the draft permit. Other Requirement No. 10 has been added to the draft permit.

**RESPONSE TO REQUEST FOR COMMENTS ON DRAFT PERMIT**

**TO: Garrison Layne**

**FROM: Region: 12**

Copy of Application Received by your Office: ☐ YES ☐ NO      Date Received: \_\_\_\_\_

**COMPANY NAME: City of Galveston**

**PERMIT NO.: WQ0010688005**

**REGULATED ENTITY NO: RN101613925**

Investigator's/Compliance Officer's Name (Please Print): \_\_\_\_\_

Phone: \_\_\_\_\_

Comments Deadline (from pg. 1):

Date of Last Site Visit: \_\_\_\_\_

**COMMENTS ON CONDITIONS: (Please mark up the draft special conditions with your comments. Please address applicability and enforceability. List any additional conditions below):**

**Compliance Determination Conditions:** \_\_\_\_\_

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**Operational Limitations:** \_\_\_\_\_

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**General Comments:** \_\_\_\_\_

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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

Mr. Tyson Arnold  
City of Galveston  
823 Rosenberg Street  
Galveston, Texas 77550

Re: City of Galveston - TPDES Permit No. WQ0010688005, EPA ID No. TX0066125  
(CN600241376; RN101613925)

Dear Mr. Arnold:

Enclosed for your review and comment is a copy of a draft permit, Fact Sheet and Executive Director's Preliminary Decision for the above-referenced operation. This draft permit is subject to further staff review and modification; however, we believe it generally includes the terms and conditions that are appropriate to your discharge. **Please read the entire draft carefully as there may be changes from the existing permit and note the following:**

1. The draft permit will be issued to expire **five years from the date of issuance.**
2. The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated.
3. 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.
4. The facility address has been updated from the existing permit from the facility is located approximately 4.5 miles north of the San Luis Bridge and 1,900 feet west of San Luis Pass Road (Farm-to-Market Road 3005), in Galveston County, Texas 77553 to the facility is located at 3715 ½ Laguna Drive, in the City of Galveston, Galveston County, Texas 77554.
5. A Total Copper Reporting Requirement has been added to the draft permit.
6. Other Requirement No. 10 has been added to the draft permit.
7. The draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

Mr. Tyson Arnold

Page 2

Also enclosed for your review and comment is a copy of the draft second notice, the Notice of Application and Preliminary Decision (NAPD), that was prepared for your application. Please review this notice and provide comments if there are any inaccuracies or any information that is not consistent with your application. Please do not publish the notice at this time; after the draft permit is filed with the Office of the Chief Clerk, you will receive instructions for publishing this notice in a newspaper from the Office of the Chief Clerk. Please note that these instructions will not be mailed if the Office of the Chief Clerk has not received the requested proof that the first notice (Notice of Receipt and Intent to Obtain a Permit) has been published. This could cause delays in the processing of your application and the final issuance of the draft permit. When the NAPD notice is received, please publish promptly and submit proof of publication (affidavit and tearsheet) to the Office of the Chief Clerk. Failure to publish notice and submit proof of publication in a timely manner may result in returning of the application and loss of authorization to operate.

It is your responsibility to submit your comments on the draft permit prior to the deadline that is indicated in the email. Comments can be sent to [garrison.layne@tceq.texas.gov](mailto:garrison.layne@tceq.texas.gov) in place of or in addition to a hard copy.

If you have any comments or questions, please contact me at (512) 239-0849, or if by correspondence, include MC 148 in the letterhead address following my name.

Sincerely,

*Garrison Layne*

Garrison Layne, Permit Coordinator  
Municipal Permits Team  
Wastewater Permitting Section (MC 148)  
Water Quality Division  
Texas Commission on Environmental Quality

GL/SW

Enclosures

cc: Mrs. Cynthia Diaz, Wastewater Superintendent, City of Galveston, 823 Rosenberg Street, Galveston, Texas 77550

Brooke T. Paup, *Chairwoman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

Date, 2025

Mrs. Cynthia Diaz  
City of Galveston  
823 Rosenberg Street  
Galveston, Texas 77550

RE: Notice of Preliminary Decision and Draft Permit  
Applicant Name: City of Galveston  
Facility Name: Terramar WWTP  
Permit No.: WQ0010688005  
Customer Reference Number: CN600241376  
Regulated Entity Number: RN101613925  
Type of Application: COMBINED NOTICE OF RECEIPT OF APPLICATION AND  
INTENT TO OBTAIN A WATER QUALITY PERMIT (NORI) AND NOTICE OF  
APPLICATION AND PRELIMINARY DECISION (NAPD) FOR TPDES PERMIT FOR  
MUNICIPAL WASTEWATER Renewal

Dear Mrs. Diaz:

The executive director has completed the technical review of the above referenced application, received on July 11, 2023 and has prepared a preliminary decision and draft permit.

You are now required to publish another notice of your proposed activity. To help you meet the requirements associated with this notice, we have included the following items:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Publisher's Affidavits
- Draft Permit
- Executive Director's Preliminary Decision
- Public Notice Verification Form

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

You must publish the enclosed notice within as soon as possible, but no later than 30 days from the date on the cover letter. **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**

On or before the date you publish notice, you must place the following items in a public place in the county where the facility is or will be located.

- (a) a copy of your permit application, including any subsequent revisions;
- (b) the executive director's preliminary decision as contained in the technical summary and fact sheet; and
- (c) the draft permit, including any subsequent revisions.

These items must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place until the commission has taken action on the application or the commission refers issues to the State Office of Administrative Hearings.

For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.

Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with **all** the requirements described in the instructions, further processing of your application may be suspended or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact the individual in the permitting area assigned to your application.

Sincerely,

*Laurie Gharis*

Laurie Gharis  
Chief Clerk  
Office of the Chief Clerk  
Texas Commission on Environmental Quality

LG/GL/CIA team member initials

Enclosures



Mrs. Cynthia Davis, Page 3  
Date, 2025  
Permit No. WQ0010688005

bcc: TCEQ Region 12, Water Program Manager

Brooke T. Paup, *Chairwoman*  
Bobby Janecka, *Commissioner*  
Catarina R. Gonzales, *Commissioner*  
Kelly Keel, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

Date, 2025

Mrs. Cynthia Davis  
City of Galveston  
823 Rosenberg Street  
Galveston, Texas 77550

RE: Permit Application  
Permit No.: WQ0010688005  
City of Galveston  
Terramar WWTP  
Galveston, Texas 77550, Galveston County  
Customer Reference Number: CN600241376  
Regulated Entity Number: RN101613925

Dear Mrs. Davis:

The Texas Commission on Environmental Quality (TCEQ) has made a preliminary decision on the above-referenced permit applications. In accordance with Title 30 Texas Administrative Code § 39.419(b), you are now required to publish Notice of Application and Preliminary Decision. You must provide a copy of the preliminary decision letter with the draft permit at the public place referenced in the public notice.

If you have any questions, please contact the individual in the permitting area assigned to your application, or write to the TCEQ, Office of Water, Water Quality Division, MC-148, Austin, Texas, 78711-3087.

Sincerely,

*Matthew Udenenwu*

Matthew Udenenwu  
Section Manager, Wastewater Permitting  
Office of Water  
Texas Commission on Environmental Quality

MU/GL/CIA team member initials

Enclosures

Mrs. Cynthia Davis, Page 2  
Date, 2025  
Permit No. WQ0010688005

cc: TCEQ Region 12, Water Program Manager

**AGENDA CAPTION FOR PERMIT NO. WQ0010688005**

City of Galveston has applied for a renewal of Texas Pollutant Discharge Elimination System Permit No. WQ0010688005, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,000,000 gallons per day. The facility is located at 3715 1/2 Laguna Drive, in the City of Galveston, Galveston County, Texas 77554.

# MUNICIPAL EPA REVIEW CHECKLIST

Permittee Name: City of Galveston  
Permit Number: TPDES Permit No. WQ0010688005, EPA ID No. TX0066125

**NOTE: Minor amendments, endorsements, and minor modifications (except for pretreatment) are exempt from EPA review. However, HSC permits Seg Nos. 1001, 1005, 1006, 1007, 1016, 2426, 2427, 2428, 2429, 2430, and 2436 require review by modeling to ensure that the loading is consistent with the revised WLE-1R, so you may need to check with the modeler or check the most recent modeling memo to confirm that the loading is consistent.**

**For renewal, amendment or new permits check any items that apply to determine if the permit is subject to EPA review:**

PLEASE CHECK ☒ ALL THE APPLICABLE BELOW:

Draft permit authorizes:

YES NO

- |                                     |                                     |  |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Discharge from a designated major facility   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Discharge from a POTW with an approved pretreatment program  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Discharge from a facility with a daily/annual average flow >1.0 MGD  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Discharge to a critical concern species watershed that requires EPA review   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Discharge that includes a request for a water quality variance   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Storm water discharge to high priority species watershed   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | First time implementation of a final TMDL for an existing facility   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Prior to a final TMDL, new permit, or expanded discharge to an impaired listed 303(d) listed segment, and that has the potential to discharge any pollutant that is causing or contributing to the impairment.   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | After a final TMDL, new permit or expanded discharge to an impaired listed 303(d) listed segment where the TMDL does not allocate the loadings described in the draft permit   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | After a final TMDL, a permit with effluent limits that allow loadings in excess of those prescribed by the TMDL for the segment  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | After a final TMDL, a permit that allows <b>more</b> than a 3-year schedule for an existing facility to be in compliance with final effluent limits based on the TMDL allocation (new facilities have to be compliant upon discharge)  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Discharge directly to territorial seas of the United States (from the coastline to 3 miles out but not including Bays and Estuaries)   |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Discharge or sewage sludge management that may affect another state or Mexico. For sewage sludge management, may affect means, accepts sewage sludge from another state or Mexico. For discharge, it means a discharge within 3 miles of a boundary with another state or Mexico.  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Discharge from a Class I sludge management facility. (A Class I facility is a POTW or combination of POTWs operated by the same authority with a design flow of >5 MGD and that have IUs and are required to have an approved pretreatment program or are subject to pretreatment standards, <b>OR</b> any other treatment works treating domestic sewage sludge classified as a Class I sludge management facility by the Regional Administrator in conjunction with the TCEQ.) |

If any column is marked "YES", EPA must receive a copy of the full permit package.  
If all columns are marked "NO", EPA does not need to review the draft permit.

Permit Writer: Garrison Layne

Date: 5/28/2025

# **MUNICIPAL MAJOR/MINOR DETERMINATION**

**Permittee Name:** City of Galveston

**Permit Number:** TPDES Permit No. WQ0010688005, EPA ID No. TX0066125

**Type of Application:** Renewal

**Check Appropriate Classification:**

- ☒ Major  
☐ Minor

**Permitted Flow:** 1.0 MGD

**Permit Writer:** Garrison Layne

**Date:** 5/28/2025

**PARIS FACILITY EXTENSION - TREATMENT PROCESS**  
**TPDES PERMIT NO. WQ0010688005**

PERMITTEE: City of Galveston  
PLANT NAME Terramar WWTP  
Application Renewal ☒ Interim I ☐ Interim II ☐ Interim III ☒ Final  
Type:

**WASTEWATER TREATMENT**

**Primary Treatment**

**02 Preliminary treatment – bar**  
**03 Preliminary treatment – grit**  
04 Preliminary treatment -  
05 Preliminary treatment - others  
B1 Imhoff tank  
06 Scum removal  
07 Flow equalization basins  
08 Preaeration  
09 Primary sedimentation  
D2 Septic tank  
A5 Facultative lagoon

**Secondary Treatment**

10 Trickling filter – rock media  
11 Trickling filter – plastic media  
12 Trickling filter – redwood slats  
13 Trickling filter – other media  
14 Activate sludge – conventional  
15 Activate sludge – complete mix  
16 Activate sludge – contact  
**17 Activated sludge – extended**  
18 Pure oxygen activate sludge  
19 Bio-Disc (rotating biological filter)  
20 Oxidation ditch  
21 Clarification using tube settlers  
**22 Secondary clarification**  
B6 Constructed wetlands  
E5 Natural treatment  
E6 Overland flow

**Advanced Treatment - Biological**

23 Biological nitrification – separate  
**24 Biological nitrification -**  
25 Biological denitrification  
26 Post aeration (reaeration)

**Advanced Treatment –**

27 Microstrainers – primary  
28 Microstrainers – secondary  
D1 Dunbar Beds  
29 Sand filters  
30 Mix media filters (sand and coal)  
31 Other filtrations  
B2 Bubble diffuser (compressor)  
32 Activated carbon – granular  
B3 Mechanical surface aerator  
33 Activated carbon-powered  
34 Two stage lime treatment of raw  
35 Two stage tertiary lime treatment  
36 Single stage lime treatment of raw  
37 Single state tertiary lime treatment  
38 Recarbonation  
39 Neutralization  
40 Alum addition to primary

41 Alum addition to secondary  
42 Alum addition to separate state  
43 Ferri-chloride addition to primary  
44 Ferri-chloride addition to secondary  
45 Ferri-chloride addition to separate  
46 Other chemical additions  
47 Ion exchange  
48 Breakpoint chlorination  
49 Ammonia stripping  
**50 Dechlorination**

**Disinfection**

**51 Chlorination for disinfection**  
52 Ozonation for disinfection  
53 Other disinfection  
D3 Ultra violet light

**Land Treatment**

54 Land treatment of primary effluent  
55 Land treatment of secondary effluent  
56 Land treatment of intermediate  
(less than secondary)

**Other Treatment**

57 Stabilization ponds  
58 Aerated lagoons  
59 Outfall pumping  
60 Outfall diffuser  
61 Effluent to other plants  
62 Effluent outfall  
**63 Other treatment (SBR)**  
64 Evapo-transpiration beds  
64 Recalcination

**Disposal Method**

A7 Irrigation – public access  
A8 Irrigation – agricultural  
B4 Evapo-transpiration beds  
B6 Constructed wetlands  
C1 Irrigation – pastureland  
D4 Pressure dosing system  
D5 Percolation system  
D8 Other reuse method  
E1 Evaporation/plays  
**E2 Discharge only**  
E3 Discharge and (use other #)  
E4 Injection well(s)

**SLUDGE TREATMENT**

**65 Aerobic digestion – air**  
66 Aerobic digestion – oxygen  
67 Composting  
68 Anaerobic digestion  
69 Sludge lagoons  
70 Heat treatment – dryer  
71 Chlorine oxidation of sludge  
72 Lime stabilization

73 Wet air oxidation  
74 Dewatering – sludge drying beds, sand  
F2 Dewatering – sludge drying bed  
75 Dewatering – mechanical-vacuum  
76 Dewatering – mechanical – centrifuge  
77 Dewatering – mechanical – filter press  
78 Dewatering – others  
79 Gravity thickening  
80 Air flotation thickening  
D6 Sludge holding tank

**Incineration**

81 Incineration – multiple hearth  
82 Incineration – fluidized beds  
83 Incineration – rotary kiln  
84 Incineration – others  
85 Pyrolysis  
86 Co-incineration with solid waste  
87 Co-pyrolysis with solid waste  
88 Co-incineration - others

**SLUDGE DISPOSAL**

**89 Co-disposal landfill**  
D7 Sludge – only monofill  
90 Land application (permitted)  
**91 Commercial land application**  
92 Trenching  
**B5 Transport to another WWTP**  
F3 Transport to Regional compost facility  
94 Other sludge handling  
95 Digest gas utilization facilities  
**E7 Commercial land application**  
F4 Dedicated land disposal  
F5 Marketing and distribution  
F6 Marketing and distribution non-

**MISCELLANEOUS**

01 Pumping raw wastewater  
96 Control/lab/maintenance buildings  
97 Fully automated using digital control -  
98 Fully automated using analog control  
99 Semi-automated plant  
A1 Manually operated and controlled  
A2 Package plant  
A3 Semi-package plant  
A4 Custom built plant  
A7 Irrigation – public access  
A8 Irrigation – agriculture  
A9 Effluent storage ponds (irrigation)  
C1 Irrigation – pastureland  
D8 Other reuse method  
D9 Emergency holding ponds  
E1 Evaporation or playa  
E8 Monitoring wells  
**E9 Biomonitoring**  
F7 Stormwater (SSO)  
F8 Unconventional

PERMIT Garrison Layne  
Municipal Permits Team  
Wastewater Permitting Section, Water Quality Division  
Date: 5/28/2025



# Compliance History Report

Compliance History Report for CN600241376, RN101613925, Rating Year 2023 which includes Compliance History (CH) components from September 1, 2018, through August 31, 2023.

<b>Customer, Respondent, or Owner/Operator:</b>	CN600241376, City of Galveston	<b>Classification:</b> SATISFACTORY	<b>Rating:</b> 2.91
<b>Regulated Entity:</b>	RN101613925, TERRAMAR BEACH PLANT	<b>Classification:</b> SATISFACTORY	<b>Rating:</b> 11.46
<b>Complexity Points:</b>	8	<b>Repeat Violator:</b> NO	
<b>CH Group:</b>	08 - Sewage Treatment Facilities		
<b>Location:</b>	3715 0.5 Laguna at Cuadro GALVESTON, TX, GALVESTON COUNTY		
<b>TCEQ Region:</b>	REGION 12 - HOUSTON		
<b>ID Number(s):</b>			
<b>WASTEWATER PERMIT</b> WQ0010688005	<b>WASTEWATER EPA ID</b> TX0066125		
<b>WASTEWATER AUTHORIZATION</b> R10688005			
<b>Compliance History Period:</b>	September 01, 2018 to August 31, 2023	<b>Rating Year:</b> 2023	<b>Rating Date:</b> 09/01/2023
<b>Date Compliance History Report Prepared:</b>	June 10, 2024		
<b>Agency Decision Requiring Compliance History:</b>	Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.		
<b>Component Period Selected:</b>	July 11, 2018 to June 10, 2024		
<b>TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.</b>			
<b>Name:</b> PT	<b>Phone:</b> (512) 239-3581		

## Site and Owner/Operator History:

- |  |     |
|--|-----|
| 1) Has the site been in existence and/or operation for the full five year compliance period?       | YES |
| 2) Has there been a (known) change in ownership/operator of the site during the compliance period? | NO  |

## Components (Multimedia) for the Site Are Listed in Sections A - J

### **A. Final Orders, court judgments, and consent decrees:**

- |   |  |  |
|---|--|--|
| 1 | Effective Date: 11/09/2021   | ADMINORDER 2019-0861-MWD-E (1660 Order-Agreed Order With Denial) |
|   | Classification: Major  |  |
|   | Citation: 30 TAC Chapter 30, SubChapter J 30.350(d)  |  |
|   | 30 TAC Chapter 305, SubChapter F 305.125(1)  |  |
|   | Rqmt Prov: WQ0010688005 PERMIT   |  |
|   | Description: Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0010688005, Other Requirements No. 1. |  |
|   | Classification: Moderate   |  |
|   | Citation: 30 TAC Chapter 30, SubChapter J 30.350(d)  |  |
|   | 30 TAC Chapter 305, SubChapter F 305.125(1)  |  |
|   | Rqmt Prov: WQ0010688005 PERMIT   |  |
|   | Description: Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and TPDES Permit No. WQ0010688005, Other Requirements No. 1.  |  |
| 2 | Effective Date: 04/23/2024   | ADMINORDER 2021-1589-MWD-E (1660 Order-Agreed Order With Denial) |
|   | Classification: Moderate   |  |
|   | Citation: 2D TWC Chapter 26, SubChapter A 26.121(a)(1)   |  |
|   | 30 TAC Chapter 305, SubChapter F 305.125(1)  |  |



Item 48	June 14, 2023	(1919891)
Item 49	October 16, 2023	(1946801)
Item 50	November 13, 2023	(1952489)
Item 51	December 19, 2023	(1962261)
Item 52	March 11, 2024	(1984490)

**E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):**

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

1	Date: 06/30/2023 (1926858)	
	Self Report? YES	Classification: Moderate
	Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)	
	Description: Failure to meet the limit for one or more permit parameter	
2	Date: 07/31/2023 (1933815)	
	Self Report? YES	Classification: Moderate
	Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)	
	Description: Failure to meet the limit for one or more permit parameter	
3	Date: 08/31/2023 (1939959)	
	Self Report? YES	Classification: Moderate
	Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)	
	Description: Failure to meet the limit for one or more permit parameter	
4	Date: 12/31/2023 (1968851)	
	Self Report? YES	Classification: Moderate
	Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)	
	Description: Failure to meet the limit for one or more permit parameter	
5	Date: 01/31/2024 (1977916)	
	Self Report? YES	Classification: Moderate
	Citation: 2D TWC Chapter 26, SubChapter A 26.121(a) 30 TAC Chapter 305, SubChapter F 305.125(1)	
	Description: Failure to meet the limit for one or more permit parameter	

**F. Environmental audits:**

**G. Type of environmental management systems (EMSs):**

N/A

**H. Voluntary on-site compliance assessment dates:**

N/A

**I. Participation in a voluntary pollution reduction program:**

N/A

**J. Early compliance:**

N/A

**Sites Outside of Texas:**

N/A

## Garrison Layne

---

**From:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Sent:** Tuesday, June 10, 2025 9:06 AM  
**To:** Garrison Layne  
**Cc:** Tyson Arnold; Benjamin Lirette; Luis Navarro  
**Subject:** RE: WQ0010688005 City of Galveston

That's great news, thank you we accept the change to a 5 year renewal.



**Cynthia Diaz, Superintendent-WWTP**

*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](mailto:cdiaz@galvestontx.gov)

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---

**From:** Garrison Layne <Garrison.Layne@tceq.texas.gov>  
**Sent:** Tuesday, June 10, 2025 8:35 AM  
**To:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Cc:** Tyson Arnold <JArnold@GalvestonTX.Gov>; Benjamin Lirette <BLirette@GalvestonTX.Gov>; Luis Navarro <LNavarro@GalvestonTX.Gov>  
**Subject:** Re: WQ0010688005 City of Galveston

Good Morning Cynthia,

I have attached below an updated copy of the draft permit WQ0010688005 below in which the biomonitoring reviewer noted that the biomonitoring violation tests that were submitted to TCEQ with this permit application had dropped off and that the permit can now be updated to be issued with a 5-year renewal period instead of a 3-year renewal period.

Please let me know if you have any questions or if you accept this change to the draft permit.

Thank you,  
Garrison Layne

---

**From:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Sent:** Tuesday, June 10, 2025 8:00 AM  
**To:** Garrison Layne <Garrison.Layne@tceq.texas.gov>  
**Cc:** Tyson Arnold <JArnold@GalvestonTX.Gov>; Benjamin Lirette <BLirette@GalvestonTX.Gov>; Luis Navarro <LNavarro@GalvestonTX.Gov>  
**Subject:** RE: WQ0010688005 City of Galveston

Good morning, I approve the draft permit.

**From:** Shemica Wilford <[Shemica.Wilford@tceq.texas.gov](mailto:Shemica.Wilford@tceq.texas.gov)>  
**Sent:** Monday, June 9, 2025 12:05 PM  
**To:** Cynthia Diaz <[CDiaz@GalvestonTX.Gov](mailto:CDiaz@GalvestonTX.Gov)>; Tyson Arnold <[JArnold@GalvestonTX.Gov](mailto:JArnold@GalvestonTX.Gov)>  
**Cc:** Garrison Layne <[Garrison.Layne@tceq.texas.gov](mailto:Garrison.Layne@tceq.texas.gov)>  
**Subject:** WQ0010688005 City of Galveston

To whom it may concern,

Attached for your review, is the letter, DRAFT permit, NAPD, and statement of basis/technical summary, for Permit WQ0010688005 City of Galveston.

Please submit any **comments and/or approval** no later than, *Monday, June 16, 2025*. If the comments and/ or approval are not received by the given deadline, it may cause significant delays in the permit process. Please contact Garrison Layne with your comments and/ or approval to: [Garrison.Layne@tceq.texas.gov](mailto:Garrison.Layne@tceq.texas.gov).

---

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## DOMESTIC WORKSHEET 6.0

### INDUSTRIAL WASTE CONTRIBUTION

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

#### Section 1. All POTWs (Instructions Page 99)

##### A. Industrial users

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

##### B. Treatment plant interference

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

Yes ☐ No ☒

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

N/A

### 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
5/10/2022	Menidia Beryllina	61%	61%
6/6/2023	Americamysis Bahia	61%	61%
6/6/2023	Menidia Beryllina	61%	61%

### C. Treatment plant pass through

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

Yes ☐ No ☒

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

N/A

### D. Pretreatment program

Does your POTW have an approved pretreatment program?

Yes ☐ No ☒

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

Yes ☐ No ☒

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

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

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

### A. Substantial modifications

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

Yes ☐ No ☒

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

N/A

**B. Non-substantial modifications**

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

Yes ☐

No ☒

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

N/A

**C. Effluent parameters above the MAL**

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

**Table 6.0(1) - Parameters Above the MAL**

<b>Pollutant</b>	<b>Concentration</b>	<b>MAL</b>	<b>Units</b>	<b>Date</b>

#### D. Industrial user interruptions

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

Yes ☐ No ☒

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

N/a

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

#### A. General information

Company Name: N/A

SIC Code:

Telephone number:

Fax number:

Contact name:

Address:

City, State, and Zip Code:

#### B. Process information

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

N/A

#### C. Product and service information

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



N/A

#### D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

#### E. Pretreatment standards

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

Yes ☐ No ☒

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

Yes ☐ No ☒

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

Category: N/A

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

#### **F. Industrial user interruptions**

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

Yes ☐

No ☒

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

N/A

Jessica Alcoser

---

**From:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Sent:** Thursday, September 14, 2023 12:42 PM  
**To:** Jessica Alcoser  
**Cc:** Colleen Cook  
**Subject:** RE: Information Requested for City of Galveston - Terramar WWTP  
**Attachments:** WQ0010688005 Correction.pdf

Please see attached.



**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](mailto:cdiaz@galvestontx.gov)

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**From:** Jessica Alcoser <Jessica.Alcoser@Tceq.Texas.Gov>  
**Sent:** Thursday, September 14, 2023 8:49 AM  
**To:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Cc:** Colleen Cook <Colleen.Cook@tceq.texas.gov>  
**Subject:** Information Requested for City of Galveston - Terramar WWTP

Good Morning,

I am conducting the pretreatment review of the application for the above referenced TPDES permit application. In order to complete the review, I am requesting the following information:

- **Domestic Worksheet 6.0 is missing** from the application we are reviewing. Please complete the attached Worksheet 6.0 and return it to me via email.

Progress cannot be made on the processing of the permit application until these materials submitted so please respond no later than **COB, Monday September 25, 2023**. Please let me know if you have any additional questions or need assistance filling out this section of the application.

Best,

**Jessica Alcoser**

Pretreatment Coordinator | Pretreatment Team – MC148

Water Quality Division | Texas Commission on Environmental Quality

✉: [jessica.alcoser@tceq.texas.gov](mailto:jessica.alcoser@tceq.texas.gov) | ☎: 512-239-4305

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# TCEQ Interoffice Memorandum

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**To:** Municipal Permits Team  
Wastewater Permitting Section

**From:** Michael B. Pfeil, Standards Implementation Team  
Water Quality Assessment Section  
Water Quality Division

**Date:** June 9, 2025

**Subject:** City of Galveston  
Terramar WWTP  
Permit No. WQ0010688005

**This memo supersedes and replaces the one dated September 7, 2023.**

## **WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)**

The following information applies to Outfall 001. We recommend saltwater chronic and 24-hour acute testing. For both tests, we recommend the mysid shrimp (*Americamysis bahia*) and the inland silverside (*Menidia beryllina*) as test species. For chronic testing, we recommend a testing frequency of once per quarter for both test species. We recommend a dilution series of 20%, 27%, 36%, 48% and 64%, with a critical dilution of 48%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend we recommend the same test species and a testing frequency of once per six months for both test species. In the past three years, the permittee has performed ten 24-hour acute tests with zero demonstrations of toxicity (zero failures).

## **REASONABLE POTENTIAL (RP) DETERMINATION**

In the past three years, the permittee has performed twenty-two chronic tests with zero demonstrations of toxicity (zero failures).

A reasonable potential determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

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

Galveston, WQ0010688005, Three-year WET testing history

Chronic

Outfall	Sp	Due date	Test date	Lethal Results	NOECsurv	Sub-Lethal Results	NOEC Subleth
001	is	1/20/2021	11/10/2020	Pass	61	Pass	61
001	mb	1/20/2021	11/10/2020	Pass	61	Pass	61
001	is	4/20/2021	3/30/2021	Pass	61	Pass	61
001	mb	4/20/2021	3/30/2021	Pass	61	Pass	61
001	is	7/20/2021	5/11/2021	Pass	61	Pass	61
001	mb	7/20/2021	5/11/2021	Pass	61	Pass	61
001	is	10/20/2021	8/17/2021	Pass	61	Fail	<19
001	mb	10/20/2021	8/17/2021	Pass	61	Fail	19
001	is	11/20/2021	9/21/2021	Pass	61	Pass	61
001	mb	11/20/2021	9/21/2021	Pass	61	Pass	61
001	is	12/20/2021	10/19/2021	Pass	61	Pass	61
001	mb	12/20/2021	10/19/2021	Pass	61	Pass	61
001	is	1/20/2022	11/30/2021	Pass	61	Pass	61
001	mb	1/20/2022	11/30/2021	Pass	61	Pass	61
001	is	4/20/2022	2/8/2022	Pass	61	Pass	61
001	mb	4/20/2022	2/8/2022	Pass	61	Pass	61
001	is	7/20/2022	5/10/2022	Pass	61	Pass	61
001	mb	7/20/2022	5/10/2022	Pass	61	Pass	61
001	is	10/20/2022	8/30/2022	Pass	61	Pass	61
001	mb	10/20/2022	8/30/2022	Pass	61	Pass	61
001	is	1/20/2023	11/15/2022	Pass	61	Pass	61
001	mb	1/20/2023	11/15/2022	Pass	61	Pass	61
001	is	4/20/2023	2/28/2023	Pass	61	Pass	61
001	mb	4/20/2023	2/28/2023	Pass	61	Pass	61
001	is	7/20/2023	6/6/2023	Pass	61	Pass	61
001	mb	7/20/2023	6/6/2023	Pass	61	Pass	61


24-hour Acute

24track subform								
Outfall	Sp	Due date	Date Received	Date Entered	Received	Test date	Results	LC50
001	is	7/20/2021	4/16/2021	4/16/2021	-1	3/30/2021	Pass	>100
001	mb	7/20/2021	4/16/2021	4/16/2021	-1	3/30/2021	Pass	>100
001	is	1/20/2022	9/13/2021	9/13/2021	-1	8/19/2021	Pass	>100
001	mb	1/20/2022	9/13/2021	9/13/2021	-1	8/19/2021	Pass	>100
001	is	7/20/2022	3/7/2022	3/7/2022	-1	2/10/2022	Pass	>100
001	mb	7/20/2022	3/7/2022	3/7/2022	-1	2/10/2022	Pass	>100
001	is	1/20/2023	9/23/2022	9/23/2022	-1	8/30/2022	Pass	>100
001	mb	1/20/2023	9/23/2022	9/23/2022	-1	8/30/2022	Pass	>100
001	is	7/20/2023	4/3/2023	4/3/2023	-1	2/28/2023	Pass	>100
001	mb	7/20/2023	4/3/2023	4/3/2023	-1	2/28/2023	Pass	>100

## TCEQ Interoffice Memorandum

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**To:** Municipal Permits Team  
Wastewater Permitting Section

**From:** Josi Robertson  
 Water Quality Assessment Team  
Water Quality Assessment Section

**Date:** September 6, 2023

**Subject:** City of Galveston  
Wastewater Permit Renewal (WQ10688005, TX0066125)  
Discharge to the watershed of West Bay (Segment No. 2424)

The referenced applicant is proposing to renew its permit authorizing the discharge of treated domestic wastewater into the watershed of West Bay (Segment No. 2424). The existing permit contains an Interim flow phase of 0.50 MGD and a Final flow phase of 1.0 MGD. The facility is located in Galveston County.

This permit action is for renewal of an existing authorization. A dissolved oxygen modeling analysis was previously performed for this permit on July 17, 2021, by Mark Rudolph. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. Therefore, the existing effluent set of **10 mg/L CBOD<sub>5</sub>, 3 mg/L Ammonia-Nitrogen, and 4.0 mg/L DO for both flow phases** is applicable to this permit. No additional modeling work was performed for the current permit action.

Segment No. 2424 is currently listed on the State's inventory of impaired and threatened waters (the **2022** Clean Water Act Section 303(d) list). The listings are for dioxin in edible tissue and PCBs in edible tissue in the main portion of the water body (AU 2424\_01) and the area adjacent to Lower Galveston Island (AU 2424\_02).

The report *Six Total Maximum Daily Loads for Bacteria in Waters of the Upper Gulf Coast*, (TMDL Project No. 74) is available for this segment.

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

# TCEQ Interoffice Memorandum

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To: Municipal Permits Team  
Wastewater Permitting Section

From: Brian Christman, Water Quality Assessment Team  
Water Quality Assessment Section

Date: August 31, 2023

Subject: City of Galveston  
Wastewater Permit No. WQ0010688005  
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **5** for a bay, estuary, wide tidal water body, or narrow tidal water body with no upstream flow.

This discharge is to West Bay (Segment No. 2424).

Segment No.	2424
Effluent Flow for Aquatic Life (MGD)	1.0 (Permitted)
% Effluent for Chronic Aquatic Life (Mixing Zone)	48
% Effluent for Acute Aquatic Life (ZID)	100
Oyster Waters?	Yes
Effluent Flow for Human Health (MGD)	1.0 (Permitted)
% Effluent for Human Health	24

Human Health criteria apply for Fish Only.

The chronic aquatic life mixing zone is defined as a volume within a radius of 31.5 feet from the point of discharge. Chronic toxic criteria apply at the edge of the chronic aquatic life mixing zone.

The width of West Bay (Segment No. 2424) at the point of discharge is approximately 63 feet. The ZID is defined as a volume within a radius of 7.88 feet from the point of discharge. The human health mixing zone is defined as a volume within a radius of 63 feet from the point of discharge.

## OUTFALL LOCATION<sup>1</sup>

Outfall Number	Latitude	Longitude
001	29.138115 N	95.059956 W


<sup>1</sup> Latitude and Longitude values are approximations of the location for administrative purposes.



## TCEQ Interoffice Memorandum

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**To:** Municipal Permits Team  
Wastewater Permitting Section

**From:**  Jeff Paull, Standards Implementation Team  
Water Quality Assessment Section  
Water Quality Division

**Date:** August 24, 2023

**Subject:** City of Galveston (Terramar WWTP); Permit no. WQ0010688005  
Renewal; Application received 7/11/2023

The discharge route for the above referenced permit is directly to West Bay in Segment 2424 of the Bays and Estuaries Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 2424 are primary contact recreation, oyster waters, high aquatic life use, and 4.0 mg/L dissolved oxygen.

A pH screening determined that the existing permit limits of 6.5 to 9.0 S.U. are protective of Segment 2424 pH criteria of 6.5 to 9.0 S.U.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. Though the piping plover, *Charadrius melodus* Ord, can occur in Segment 2424 in Galveston County, both the segment and county are 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.



Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Kelly Keel, *Interim Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

August 23, 2023

Mrs. Cynthia Diaz  
Wastewater Superintendent  
City of Galveston  
823 Rosenberg Street  
Galveston, Texas 77550

RE: Declaration of Administrative Completeness  
Applicant Name: City of Galveston (CN600241376)  
Permit No.: WQ0010688005 (EPA I.D. No. TX0066125)  
Site Name: Terramar WWTP (RN101613925)  
Type of Application: Renewal

Dear Mrs. Diaz:

The executive director has declared the above referenced application, received on July 11, 2023, administratively complete on August 23, 2023.

You are now required to publish notice of your proposed activity and make a copy of the application available for public review. The following items are included to help you meet the regulatory requirements associated with this notice:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Public Notice Verification Form
- Publisher's Affidavits

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

1. Publish the enclosed notice within **30 calendar days** after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**

Declaration of Administrative Completeness

Page 2

August 23, 2023

2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.
3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.
4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with all the requirements described in the instructions, further processing of your application may be suspended, or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Mr. Erwin Madrid at (512) 239-2191.

Sincerely,



Jennifer E. Bowers, Section Manager  
Water Quality Division Support  
Office of Water Quality  
Texas Commission on Environmental Quality

JEB/em

Enclosures

**Texas Commission on Environmental Quality**  
**Instructions for Public Notice for a Water Quality Permit**  
**Notice of Receipt of Application and Intent to Obtain Permit (NORI)**

Your application has been declared administratively complete. You must comply with the following instructions. There are seven (7) steps involved in publishing notice. Complete each step.

**1. REVIEW THE NOTICE FOR ACCURACY**

**Read the enclosed notice carefully and notify the Application Review and Processing Team at 512-239-4671 immediately if it contains any errors or omissions.** You are responsible for ensuring the accuracy of all information published. Do not change the text or formatting of the notice or affidavit of publication without prior approval from the TCEQ. Changing the text or formatting of the notice may require new publication at your expense and delay processing of your application.

**2. PUBLISH THE NOTICE IN THE NEWSPAPER**

**You must publish the enclosed notice within 30 days after the date of administrative completeness.** Refer to the cover letter for the date of administrative completeness.

You must publish the enclosed notice at your expense, at least once in the newspaper of largest circulation within each county where the facility and discharge point are located or will be located. If the facility and discharge point are located or will be located in a municipality, the enclosed notice must be published at least once in a newspaper of general circulation in the municipality. These requirements may be satisfied by one publication if the newspaper meets all of the above requirements.

The bold text of the enclosed notice must be printed in the newspaper in a font style or size that distinguishes it from the rest of the notice (i.e., bold, italics). Failure to do so may require re-notice.

**3. PUBLISH THE NOTICE IN AN ALTERNATIVE LANGUAGE**

**You must publish notice in an alternative language IF:** either the elementary or middle school nearest to the facility or proposed facility is required to provide a "bilingual education program" (BEP) as required by Texas Education Code (TEC), Chapter 29, Subchapter B, and 19 Tex. Admin. Code §89.1205(a) AND one of the following conditions is met:

- students are enrolled in a program at that school;
- students from that school attend a bilingual education program at another location; or
- the school that otherwise would be required to provide a bilingual education program has been granted an exception from the requirements to provide the program as provided for in 19 Tex. Admin. Code §89.1207(a).

A "bilingual education program" is different from an "English as a second language program" (ESL). An ESL program alone, will not require public notice in an alternative language.

If triggered, you must publish the notice in a newspaper or publication primarily published in the alternative language taught in the bilingual education program. Publication in an alternative language section or insert within a large publication which is not printed primarily in that alternative language does not satisfy these requirements. The newspaper or publication must be of general circulation in the county in which the facility and discharge point are located or proposed to be located. If the facility and discharge point are located or proposed to be located in a municipality, and there exists a newspaper or publication of general circulation in the municipality, you must publish the notice only in the newspaper or publication in the municipality.

You must demonstrate a good faith effort to identify a newspaper or publication in the required language. If there is no general circulation newspaper or publication printed in such language, then publishing in that language is not required. You have the burden to demonstrate compliance with these requirements.

If you are required to publish notice in Spanish, you must translate the site-specific information in the notice that is specific to your application, at your own expense. You may then insert the Spanish translation of your site-specific information into a Spanish template developed by the TCEQ. The Spanish templates are available on the TCEQ website at

[http://www.tceq.texas.gov/permitting/wastewater/review/wqspanish\\_nori.html](http://www.tceq.texas.gov/permitting/wastewater/review/wqspanish_nori.html). If you are required to publish notice in a language other than Spanish, you must translate the entire public notice, at your own expense.

#### **4. PUT THE APPLICATION IN A PUBLIC PLACE**

**You must put a copy of the administratively complete application in the public place identified in the enclosed notice.**

This copy must be accessible to the public for review and copying beginning on the first day of newspaper publication and remain in place for the publication's designated comment period.

During the technical review, you must update the publicly available application so that it includes all application revisions within 10 business days from the date the revision is transmitted to the TCEQ.

For confidential information contained in the application, you must indicate which specific portions of the application cannot be made available to the public. These portions of the application must be accompanied with the following statement: "Any request for portions of this application that are marked as confidential must be submitted in writing, pursuant to the Public Information Act, to the TCEQ Public Information Coordinator, MC 197, P.O. Box 13087, Austin, Texas 78711-3087."

#### **5. PROVIDE PROOF OF PUBLICATION**

**For each newspaper in which you published, you must submit proof of publication.** Proof of publication must include the following:

- a completed Publisher's Affidavit (enclosed); and
- a copy of the published notice which shows the notice, the date published, and the newspaper name. The copy must be on standard-size 8½ x 11" paper and must show the actual size of the published notice. Do not reduce the

image when making copies. Published notices longer than 11" must be copied onto multiple 8½ x 11" pages. Or you can submit the original newspaper clipping.

**If you are required to publish notice in an alternative language and are unable to do so, complete and submit the Alternative Language Exemption form (enclosed).**

**6. PROVIDE PROOF OF APPLICATION VIEWING LOCATION**

**You must submit a completed Public Notice Verification Form (enclosed) which certifies that the administratively complete application was placed at the public place identified in the enclosed notice.**

**7. SUBMIT PROOFS TO TCEQ**

**The proof of publication documents (Step 5) and the completed Public Notice Verification Form (Step 6) must be submitted to TCEQ within 30 days of publication.**

By email to: [PROOFS@tceq.texas.gov](mailto:PROOFS@tceq.texas.gov)

OR by mail at:

TCEQ

Office of the Chief Clerk, MC 105

Attn: Notice Team

P.O. Box 13087

Austin, Texas 78711-3087

NOTE: If proofs are submitted by email, you do not have to mail in the original documents.

**Additional Information**

**If you fail to publish the notice or submit proofs within the timeframes noted above, the TCEQ may suspend further processing on your application or take other actions in accordance with 30 Tex. Admin. Code §39.405(a).**

If you have any questions regarding publication requirements, please contact the Office of Legal Services at 512-239-0600. If you have any questions regarding the content of the notice, please contact the Wastewater Permitting Section at 512-239-4671. When contacting TCEQ regarding this application, please refer to the permit number at the top of the enclosed notice.

If you wish to obtain an electronic copy of the notice, please visit our web site at [http://www.tceq.texas.gov/agency/cc/cc\\_db.html](http://www.tceq.texas.gov/agency/cc/cc_db.html) or <http://www.tceq.texas.gov/agency/cc/eda.html>. Please be aware that formatting codes may be lost and that any notices downloaded from these web sites must be reformatted by you so that your downloaded copy looks like the notice document you received from us.



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

**PERMIT NO. WQ0010688005**

**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. WQ0010688005 (EPA I.D. No. TX0066125) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,000,000 gallons per day. The domestic wastewater treatment facility is located at 3715 1/2 Laguna Drive, Galveston, in Galveston County, Texas 77554. The discharge route is from the plant site directly to West Bay. TCEQ received this application on July 11, 2023. The permit application will be available for viewing and copying at Galveston City Hall, 823 Rosenberg Street, Galveston, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.  
<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.0575,29.135833&level=18>

**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](http://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 <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](http://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 at 409-797-3630.

Issuance Date: August 23, 2023





**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**  
**Public Notice Verification Form**  
**Notice of Receipt of Application and Intent to Obtain Permit**  
**(NORI)**  
**Water Quality Permit**

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**All applicants must complete this page.**

Applicant Name: [REDACTED]

Site or Facility Name: [REDACTED]

Water Quality Permit Number: [REDACTED]

Regulated Entity Number: RN [REDACTED] Customer Number: CN [REDACTED]

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**PUBLIC VIEWING LOCATION**

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I certify that a copy of the complete water quality application, and all revisions, were placed at the following public place for public viewing and copying. I understand that the copy will remain available at the public place from the 1<sup>st</sup> day of publication of the NORI until the end of the designated comment period. I further understand that the copy will be updated with any revisions to the application.

Name of Public Place: [REDACTED]

Address of Public Place: [REDACTED]

Applicant or Applicant Representative Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**  
**Public Notice Verification Form**  
**Notice of Receipt of Application and Intent to Obtain Permit**  
**(NORI)**  
**Water Quality Permit**

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**Complete this page only if you are required to publish in an alternative language and are not able to do so.**

Applicant Name: [REDACTED]

Site or Facility Name: [REDACTED]

Water Quality Permit Number: [REDACTED]

Regulated Entity Number: RN [REDACTED] Customer Number: CN [REDACTED]

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**ALTERNATIVE LANGUAGE EXEMPTION**

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I certify that I have conducted a diligent search for a newspaper or publication of general circulation in both the municipality and county in which the facility is located or proposed to be located and was unable to publish the notice in the required alternative language because:

- ☐ A newspaper or publication could not be found in any of the alternative languages in which notice is required.
- ☐ The publishers of the newspapers listed below refused to publish the notice as requested, and another newspaper or publication in the same language and of general circulation could not be found in the municipality or county in which the facility is located or proposed to be located.

Newspaper Name: [REDACTED]

Language: [REDACTED]

Applicant or Applicant Representative Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Applicant Name: City of Galveston  
Permit No.: WQ0010688005

STATE OF TEXAS                               §  
COUNTY OF \_\_\_\_\_ §

My Commission Expires \_\_\_\_\_

Applicant Name: City of Galveston  
Permit No.: WQ0010688005

My Commission Expires \_\_\_\_\_

## Erwin Madrid

---

**From:** Erwin Madrid  
**Sent:** Wednesday, August 23, 2023 5:45 PM  
**To:** cdiaz@galvestontx.gov  
**Cc:** tpedraza@galvestontx.gov; OCC-WQ  
**Subject:** NORI PACKET FOR PERMIT NO. WQ0010688005 - City of Galveston  
**Attachments:** WQ NORI instructions 3-2021.docx; WQ0010688005\_Contact.pdf; WQ0010688005Affidavits.docx; WQ0010688005Letter.pdf; 20244-NORI PNV Form5-2017.docx; cityofgalveston-terramarwwtp-wq00106885001-nori-eng.docx

**Importance:** High

Permit No. WQ0010688005

Applicants are required to publish the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit within 30 days of the application being declared administratively complete.

Attached is:

- ☐ **Application Contact Sheet (For TCEQ Office Use Only)**
- ☐ Letter of Declaration of Administrative Completeness
- ☐ Instructions of Public Notice
- ☐ Notice of Receipt of Application and Intent to Obtain a Water Quality Permit
- ☐ Affidavit of Publication
- ☐ Public Notice Verification Form

Thank you,

Erwin Madrid  
Team Lead  
ARP Team | Water Quality Division  
512-239-2191  
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.

# Texas Commission on Environmental Quality

## EXECUTIVE REVIEW COMMITTEE- PART C MEMORANDUM

**City of Galveston**, TPDES Permit No. WQ0010688005

**Reason brought to ERC:** Administrative Order No. **2019-0861-MWD-E**, November 9, 2021 (Closed)

Administrative Order No. **2021-1589-MWD-E**, April 23, 2024 (Active)

**Permit Action:** Renewal

### Issues:

#### **Administrative Order No. 2019-0861-MWD-E**

During an investigation conducted on February 21 through March 4, 2019 for Facility No. 1, an investigator documented that the Respondent:

1. Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0011477001, Other Requirements No. 1. Specifically, Mr. Jesus Garza, the operator of Facility No. 1, did not possess a wastewater license, but conducted process control tasks for 34 days during a time period from August 2, 2018 to January 27, 2019.
2. Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and TPDES Permit No. WQ0011477001, Other Requirements No. 1. Specifically, Mr. Amado Serona, an operator of Facility No. 1, possessed a Class "D" license instead of the required Class "C" license, but conducted process control tasks for 10 days during a time period from January 31, 2019 to February 28, 2019.

During an investigation conducted on February 21 through March 4, 2019 for Facility No. 2, an investigator documented that the Respondent:

1. Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and TPDES Permit No. WQ0010688005, Other Requirements No. 1. Specifically, Mr. Jesus Garza, the operator of Facility No. 2, did not possess a wastewater license, but conducted process control tasks for 23 days during a time period from August 25, 2018 to January 27, 2019.
2. Failed to employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid Class "C" license or higher, in violation of 30 TEX. ADMIN. CODE §§ 30.350(d) and 305.125(1) and TPDES Permit No. WQ0010688005, Other Requirements No. 1. Specifically, Mr. Amado Serona, an operator of Facility No. 2, possessed a Class "D" license instead of the required Class "C" license, but conducted process control tasks for 9 days during a time period from January 31, 2019 to February 28, 2019.

# Texas Commission on Environmental Quality

## EXECUTIVE REVIEW COMMITTEE- PART C MEMORANDUM

### Administrative Order No. 2021-1589-MWD-E

During a record review for the Facility conducted on October 22, 2021, an investigator documented that the Respondent failed to comply with permitted effluent limitations, in violation of 30 TEX. ADMIN. CODE § 305.125(1), TEX. WATER CODE § 26.121(a)(1), and Texas Pollutant Discharge Elimination System ("TPDES") Permit No. WQ0010688005, Interim Effluent Limitations and Monitoring Requirement No. 1, as shown in the effluent violation table below:

Effluent Violation Table					
Monitoring Period	Carbonaceous Biochemical Oxygen Demand (5-day)		Flow	Ammonia Nitrogen	
	Daily Average Concentration	Daily Average Loading	Daily Average	Daily Average Concentration	Daily Maximum Concentration
	Limit= 10 mg/L	Limit = 42 lbs/day	Limit= 0.50 MGD	Limit= 3 mg/L	Limit= 10 mg/L
September 2020	c	c	1.32	c	c
March 2021	c	c	c	3.6	14
May 2021	c	c	0.0762	c	c
July 2021	12	56	c	6.5	19

mg/L = milligram per liter  
lbs/day = pounds per day  
MGD= million gallons per day  
c = compliant

**Background:** The City of Galveston (the City) has applied to renew the TPDES Permit No. WQ0010688005. The permit authorizes to treat and discharge wastes from the Terramar Wastewater Treatment Plant (WWTP) according to effluent limitations, monitoring requirements, and other conditions set forth. The facility is located at 3715 1/2 Laguna Drive, Galveston, in Galveston County, Texas 77554.

**Treatment Process:** The Terramar WWTP is an activated sludge process plant operated in the extended aeration mode (Sequencing Batch Reactor). Treatment units in the Interim phase include a bar screen, a grit chamber, a lift station, two sequential batch reactors, an aerobic digester, and a chlorine contact chamber. Treatment units in the Final phase will include two bar screens, two grit chambers, two lift stations, four sequential batch reactor basins, two chlorine contact basins, and two aerobic digesters. Dechlorination will be added in the final phase. The facility is operating in the Interim phase.

#### Five- Year Average Effluent Data:

Effluent Characteristic	Permit Limitations	Daily Average
Flow (MGD)	0.50	0.38
CBOD <sub>5</sub> (mg/l)	10	3.01
TSS (mg/l)	15	2.75

# Texas Commission on Environmental Quality

## EXECUTIVE REVIEW COMMITTEE- PART C MEMORANDUM

NH <sub>3</sub> -N, mg/l	3	1.61
Enterococci (CFU or MPN/100 ml)	35	10
Chlorine, mg/l	1.0-4.0	1.01-3.69
pH, SU	6.5-9.0	6.74-7.58
DO (mg/l)	≥ 4.0	5.18

**Input from Region:** TCEQ Region 12 informed via email on July 22, 2024, that for the Admin Order 2019-0861-MWD-E, the violations that were sent to Enforcement have been resolved regarding the licensing issues noted during the investigation. For the Admin Order 2021-1589-MWD-E, the region does not know what the facility has done to fix the NH<sub>3</sub>-N daily maximum limit violation.

**Input from Applicant:** The applicant informed via email on October 8, 2024 that a number of changes have been made to the plant since the numerous violations the plant has been through such replacing the operator of the facility with a new one, adding super covers on manholes, and conducting smoke testing.

**Input from Enforcement:** TCEQ Enforcement Division informed via email on July 11, 2024, that the Order No. 2019-0861-MWD-E has been effective since November 9, 2021. The violations are resolved, and the file was closed on March 20, 2023. Additionally, TCEQ Enforcement Division informed that the Order No. 2021-1589-MWD-E has been effective since April 23, 2024. The violations are being tracked, and are not due for compliance yet.

**Recommendation:** The facility has one administrative order for failing to contract a licensed wastewater treatment facility operator; and one admin order for violating the effluent limits of CBOD<sub>5</sub>, Flow, and Ammonia Nitrogen. The violations noted in the first admin order were resolved, and the order has been closed. For the second admin order, to fix the problems at the facility the permittee has replaced the facility operator, added covers over the sewer systems, and did smoke testing. The Region did not recommend adding any additional language to the permit. **So based on CH; DMR; and the responses from the Applicant, Region, and Enforcement Division; it is recommended to proceed with no changes being made to the draft permit due to the administrative orders.**

**Attachments:**

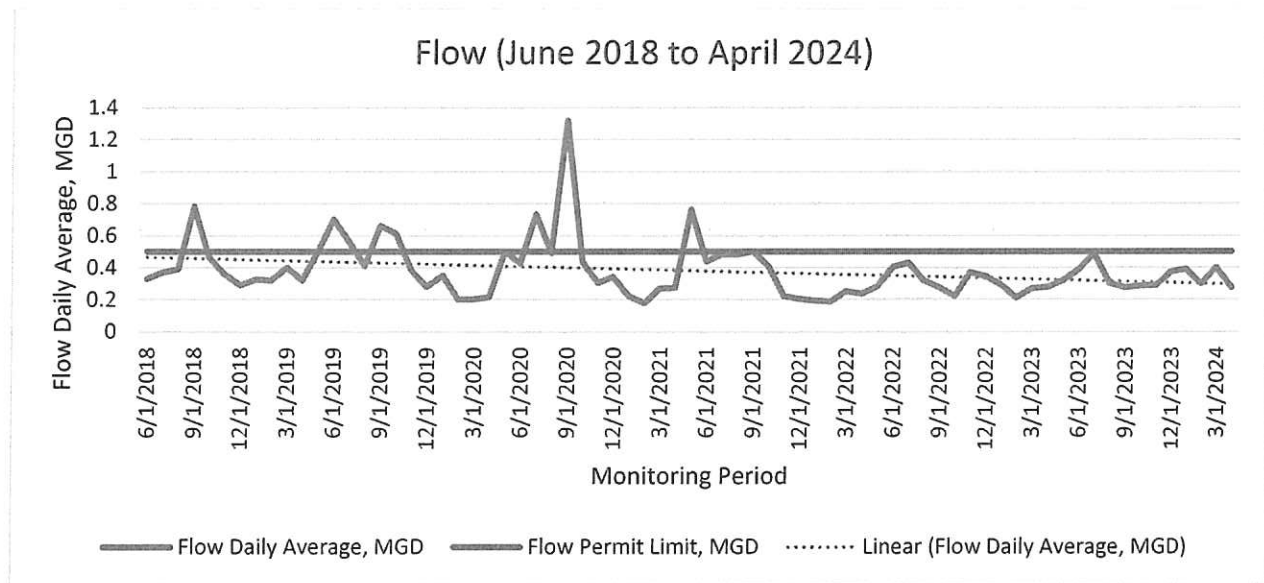
1. Compliance History
2. Administrative orders 2019-0861-MWD-E and 2021-1589-MWD-E
3. Compliance Charts NH<sub>3</sub>-N, Flow, Enterococci, and CBOD<sub>5</sub>.



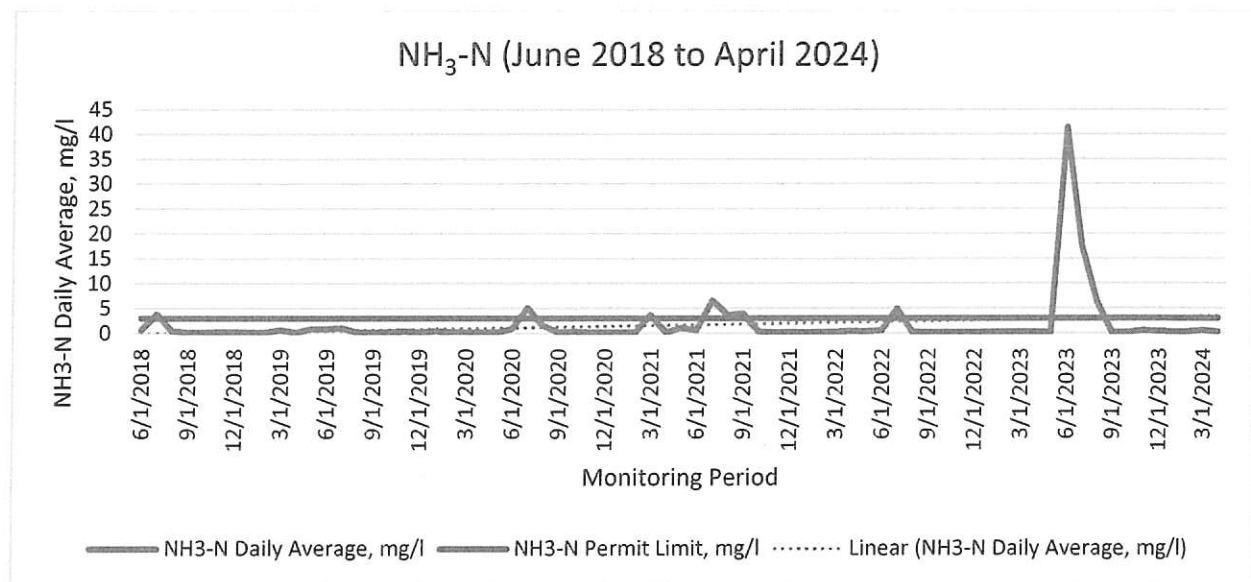
# Texas Commission on Environmental Quality

## EXECUTIVE REVIEW COMMITTEE- PART C MEMORANDUM

### Compliance Chart for Flow



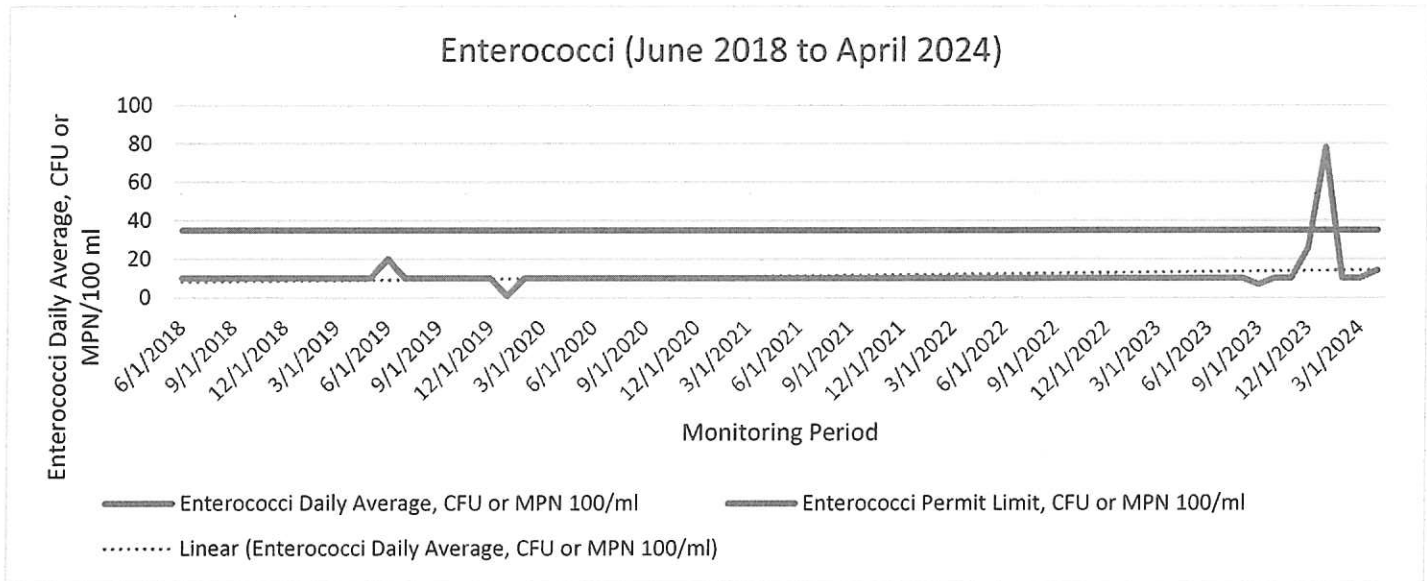
### Compliance Chart for Ammonia Nitrogen



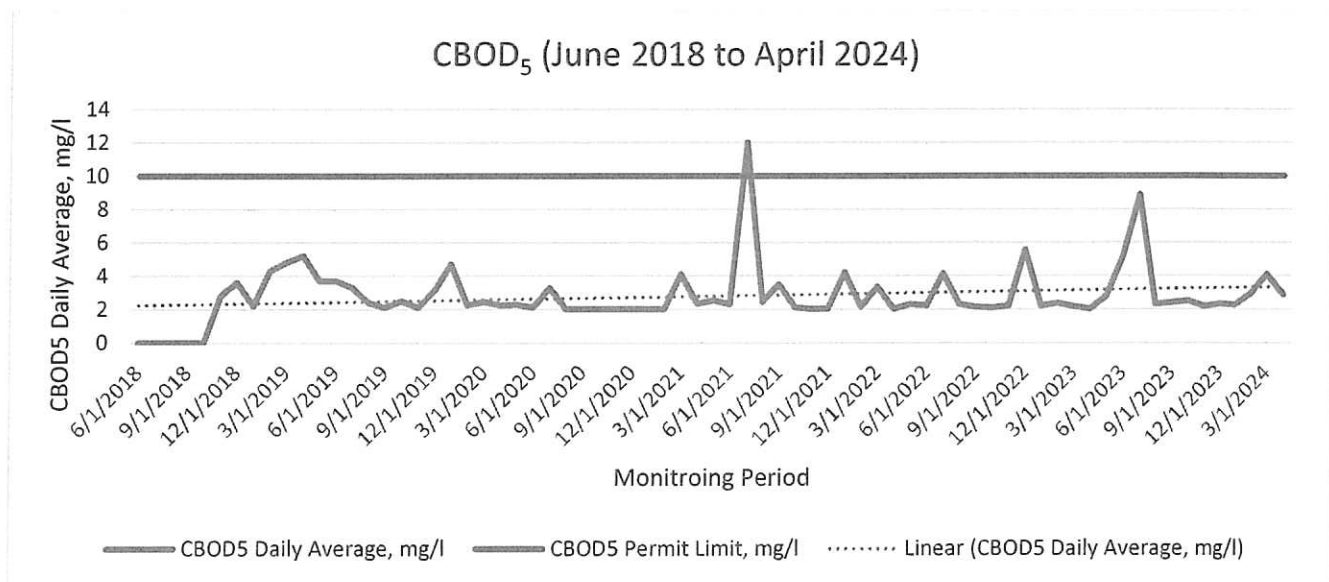
# Texas Commission on Environmental Quality

## EXECUTIVE REVIEW COMMITTEE- PART C MEMORANDUM

### Compliance Chart for Enterococci



### Compliance Chart for CBOD<sub>5</sub>





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



March 14, 2025

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

RE: Galveston Terramar Permit Retest

Enclosed are the results of analyses for samples received by the laboratory on 03/05/25 15:48, with Lab ID Number 5100017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

---

Daniel Bowen  
Chief Operations Officer



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



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

### LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Permit Retest  
Client Matrix: Water

Sample Date & Time: 03/05/2025 13:00

Collector: JG

Sample Type: Grab

Print Date: 3/14/2025

#### Permit Retest 5100017-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
---------	--------	--------------------	-------	-----------------	-------	-------------------------	--------	-------

#### Metals

Copper, Total	0.00340	0.00200	mg/L	A	B5C4646	03/11/2025 14:36	EPA 200.8	
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Email: eastexlab@eastex.net  
Tel: 936 653 3249



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

**EPA 200.8 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5C4646 - EPA 200.8</b>									
<b>Blank (B5C4646-BLK1)</b>									
				<b>Analyzed: 3/11/2025 2:15:00PM</b>					
Copper, Total	ND	0.000750	mg/L						
<b>LCS (B5C4646-BS1)</b>									
				<b>Analyzed: 3/11/2025 2:19:00PM</b>					
Copper, Total	0.104	0.000750	mg/L	0.100		104	85-115		
<b>Matrix Spike (B5C4646-MS1)</b>									
				<b>Source: 5101009-01</b>					
				<b>Analyzed: 3/11/2025 2:29:00PM</b>					
Copper, Total	0.112	0.000750	mg/L	0.100	0.00176	110	70-130		
<b>Matrix Spike Dup (B5C4646-MSD1)</b>									
				<b>Source: 5101009-01</b>					
				<b>Analyzed: 3/11/2025 2:32:00PM</b>					
Copper, Total	0.102	0.000750	mg/L	0.100	0.00176	100	70-130	9.31	20



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

#### Notes and Definitions

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Natalie Sewell  
Eastex Environmental Laboratory Inc.  
PO BOX 1089  
Coldspring, Texas 77331

Generated 3/14/2025 7:28:36 AM

## JOB DESCRIPTION

Galveston Terramar Permit Retest Permit Retest  
PO 030725A

## JOB NUMBER

860-95464-1

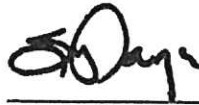
# Eurofins Houston

## Job Notes

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

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

## Authorization



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

Generated  
3/14/2025 7:28:36 AM



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## Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

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

## Case Narrative

Client: Eastex Environmental Laboratory Inc.  
Project: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1

**Job ID: 860-95464-1**

**Eurofins Houston**

**Job Narrative  
860-95464-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

### Receipt

The samples were received on 3/7/2025 3:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C.

### Metals

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

Eurofins Houston

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## Detection Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest

Lab Sample ID: 860-95464-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000344	J	0.000500	0.000200	ug/L	1		1631E	Total/NA

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest LL Blank

Lab Sample ID: 860-95464-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

## Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

**Client Sample ID: Galveston Terramar Permit Retest Permit**

**Lab Sample ID: 860-95464-1**

**Retest**

Date Collected: 03/06/25 00:00

Matrix: Water

Date Received: 03/07/25 15:05

Method: EPA 1631E - Mercury, Low Level (CVAFS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000344	J	0.000500	0.000200	ug/L	-		03/13/25 16:25	1

**Client Sample ID: Galveston Terramar Permit Retest Permit**

**Lab Sample ID: 860-95464-2**

**Retest LL Blank**

Date Collected: 03/06/25 00:00

Matrix: Water

Date Received: 03/07/25 15:05

Method: EPA 1631E - Mercury, Low Level (CVAFS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/13/25 16:30	1

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

## Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 192-30967/22  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/13/25 14:56	1

Lab Sample ID: MB 192-30967/23  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/13/25 15:26	1

Lab Sample ID: MB 192-30967/24  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200	U	0.000500	0.000200	ug/L	-		03/13/25 15:06	1

Lab Sample ID: LCS 192-30967/25  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005191		ug/L	-	104	77 - 123

Lab Sample ID: 860-95535-A-2 MS  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Matrix Spike  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200	U	0.00500	0.004913		ug/L	-	98	71 - 125

Lab Sample ID: 860-95535-A-2 MSD  
Matrix: Water  
Analysis Batch: 30967

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Mercury	<0.000200	U	0.00500	0.005157		ug/L	-	103	71 - 125	5 24

## QC Association Summary

Client: Eastex Environmental Laboratory Inc.

Job ID: 860-95464-1

Project/Site: Galveston Terramar Permit Retest Permit Retest

SDG: PO 030725A

### Metals

#### Analysis Batch: 30967

Lab Sample ID	Client Sample ID	Prop Type	Matrix	Method	Prep Batch
860-95464-1	Galveston Terramar Permit Retest Permit Retest	Total/NA	Water	1631E	
860-95464-2	Galveston Terramar Permit Retest Permit Retest LL Bl	Total/NA	Water	1631E	
MB 192-30967/22	Method Blank	Total/NA	Water	1631E	
MB 192-30967/23	Method Blank	Total/NA	Water	1631E	
MB 192-30967/24	Method Blank	Total/NA	Water	1631E	
LCS 192-30967/25	Lab Control Sample	Total/NA	Water	1631E	
860-95535-A-2 MS	Matrix Spike	Total/NA	Water	1631E	
860-95535-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

## Lab Chronicle

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-95464-1

### Retest

Date Collected: 03/06/25 00:00

Matrix: Water

Date Received: 03/07/25 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30967	03/13/25 16:25	JEP	EET ARK

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-95464-2

### Retest LL Blank

Date Collected: 03/06/25 00:00

Matrix: Water

Date Received: 03/07/25 15:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30967	03/13/25 16:30	JEP	EET ARK

### Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060



## Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.

Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1

SDG: PO 030725A

### Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Eurofins Houston

## Method Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1  
SDG: PO 030725A

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

### Protocol References:

EPA = US Environmental Protection Agency

### Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

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## Sample Summary

Client: Eastex Environmental Laboratory Inc.

Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-95464-1

Ss G:PO8 3r 72yA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-95464-1	Galveston Terramar Permit Retest Permit Retest	Water	03/06/25 00:00	03/07/25 15:05
860-95464-2	Galveston Terramar Permit Retest Permit Retest	Water	03/06/25 00:00	03/07/25 15:05
	LL Blank			

1

2

3

4

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11

12

13

14

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



# **SUBCONTRACT ORDER**

**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:**

**Eurofins Xenco LLC**  
4147 Greenbriar Dr  
Stafford, TX 77477  
Phone 713-690-4444  
Fax 713-690-5646  
*3/6*

**PO 030725A**

**Requested Turnaround 3 Days**

Sample ID: Galveston Terramar Permit Retest Permit Retest Sample No: S100017-01 Water Sampled: 03/06/2025 00:00

Mercury LL Blank  
Mercury LL

5

Containers Supplied

Special Instructions



☐ See Attached

Received Iced Y/N

Temp 30

Galveston Terramar WWTP

Released By

Date & Time

3/12/25 1100

Received By

Muenn

Date & Time

3-7-25 1505

Eurofins Houston  
4145 Greenbriar Dr  
Stafford, TX 77477  
Phone: 281-240-4200

## Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact		N/A	N/A	N/A	860-202782.1
Shipping/Receiving		Phone	E-Mail	State of Origin	Page
Company		N/A	Sylvia Garza@eurofins.com	Texas	Page 1 of 1
Eurofins Environment Testing South Contr					
Address:					
8600 Kanis Rd,					
City:					
Little Rock					
State, Zip:					
AR, 72204					
Phone:					
501-224-5060(Tel) 501-224-5075(Fax)					
Email:					
N/A					
Project Name:					
Galveston Terramar Permit Retest Permit Retest					
Site					
N/A					
Due Date Requested:					
3/14/2025					
TAT Requested (days):					
N/A					
PO #:					
N/A					
WO #:					
N/A					
Project #:					
86000838					
SSOW#:					
N/A					
Analysis Requested					
Total Number of Containers					
1					
Special Instructions/Note:					
1631E NP/LL Mercury					
Perform MS/MSD (Yes or No)					
X					
Field Filtered Sample (Yes or No)					
X					
Preservation Code:					
G Water					
G Water					
Sample Type (C=Comp, G=grab)					
G					
Sample Time					
Central					
Sample Date					
3/6/25					
3/6/25					
Galveston Terramar Permit Retest Permit Retest (860-95464-1)					
Galveston Terramar Permit Retest Permit Retest LL Blank (860-95464-1)					
Sample Identification - Client ID (Lab ID)					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by:					
Date:					
3/11/25 12:00					
Relinquished by:					
Date/Time:					
Relinquished by:					
Date/Time:					
Custody Seals Intact:					
Custody Seal No.:					
A Yes A No					
Cooler Temperature(s) °C and Other Remarks:					
0.1					
Received by:					
Date/Time:					
3/11/25 950					
Received by:					
Date/Time:					
Received by:					
Date/Time:					
Special Instructions/QC Requirements:					
Return To Client					
Disposal By Lab					
Archive For					
Months					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					

Ver: 10/10/2024

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



**EASTEX ENVIRONMENTAL LABORATORY, INC.**  
P.O. Box 1089 • Goldsring, TX 77331 P.O. Box 631375 • Nacogdoches, TX 75963-1375  
(936) 653-3249 • (800) 525-0508 (936) 569-8879 • FAX (936) 569-8951

www.eastexlabs.com

White Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy

REPORT TO:

INVOICE TO:

Company: City of Goldsring  
Address: 10000000

Company: same  
Address: same

Remarks:

Attn:

Attn:

Phone#:

Phone#:

Email:

INSTRUCTIONS:

P.O. #:

C or G:

G = Composite G = Grab  
DW = Drinking Water WW = Wastewater SO = Soil/Sludge OT = Other

Sampler's Name (print):

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

Sampler's Signature:

Type:

P = Plastic G = Glass T = Teflon S = Sterile  
C = Chilled S = Sulfuric Acid N = Nitric Acid B = Base/Caustic Z = Zn Acetate  
ST = Sodium Thiosulfate H = HCL O = Other

Project Name:

Preservatives:

Field Data

Containers

Work Order ID

Sample ID

Date

Time

Matrix

C or G

DO

pH

C12

Flow

Temp

#

Size

Type

Pres

51000017

444

3/5/25

7:40

444

3/5/25

4:00

444

3/5/25

11:00

444

3/5/25

9:00

\*Thermometer has 0.0 factor and recorded temperature is actual temperature



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



March 04, 2025

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

RE: Galveston Terramar Permit Retest

Enclosed are the results of analyses for samples received by the laboratory on 02/19/25 15:30, with Lab ID Number 5090011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Bowen  
Chief Operations Officer



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



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

### LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Permit Retest  
Client Matrix: Water

Sample Date & Time: 02/18/2025 12:00  
Collector: PU  
Sample Type: Grab  
Print Date: 3/4/2025

#### Permit Retest 5090011-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<b><u>Metals</u></b>								
Copper, Total	0.00333	0.00100	mg/L	A	B5B6573	02/26/2025 13:54	EPA 200.8	





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



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

**EPA 200.8 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B6573 - EPA 200.8</b>		<b>Prepared: 02/24/25 15:34</b>								
<b>Blank (B5B6573-BLK1)</b>		<b>Analyzed: 2/26/2025 12:31:00PM</b>								
Copper, Total	ND	0.00100	mg/L							
<b>LCS (B5B6573-BS1)</b>		<b>Analyzed: 2/26/2025 12:34:00PM</b>								
Copper, Total	0.0952	0.00100	mg/L	0.100		95.2	85-115			
<b>Matrix Spike (B5B6573-MS1)</b>		<b>Source: 5080368-01 Analyzed: 2/26/2025 12:44:00PM</b>								
Copper, Total	0.0954	0.00100	mg/L	0.100	0.00415	91.3	70-130			
<b>Matrix Spike Dup (B5B6573-MSD1)</b>		<b>Source: 5080368-01 Analyzed: 2/26/2025 12:47:00PM</b>								
Copper, Total	0.0986	0.00100	mg/L	0.100	0.00415	94.4	70-130	3.25	20	



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



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

#### Notes and Definitions

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Natalie Sewell  
Eastex Environmental Laboratory Inc.  
PO BOX 1089  
Coldspring, Texas 77331

Generated 3/3/2025 5:53:29 PM

## JOB DESCRIPTION

Galveston Terramar Permit Retest Permit Retest  
PO 022125J

## JOB NUMBER

860-94298-1

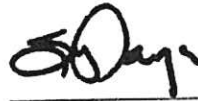
# Eurofins Houston

## Job Notes

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

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

## Authorization



Generated  
3/3/2025 5:53:29 PM

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

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## Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

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

## Case Narrative

Client: Eastex Environmental Laboratory Inc.  
Project: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1

Job ID: 860-94298-1

Eurofins Houston

### Job Narrative 860-94298-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 2/21/2025 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

#### Metals

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

Eurofins Houston

## Detection Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest

Lab Sample ID: 860-94298-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000416	J	0.000500	0.000290	ug/L	1		1631E	Total/NA

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest LL Blank

Lab Sample ID: 860-94298-2

5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston



## Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-1

Retest

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000416	J	0.000500	0.000290	ug/L			03/03/25 16:19	1

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-2

Retest LL Blank

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 16:04	1

Eurofins Houston

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 192-30374/3  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:42	1

Lab Sample ID: MB 192-30374/4  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:46	1

Lab Sample ID: MB 192-30374/5  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:51	1

Lab Sample ID: LCS 192-30374/6  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005100		ug/L		102	77 - 123

Lab Sample ID: 860-94298-2 MS  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Galveston Terramar Permit Retest Permit Retest LL  
Blank  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000290	U	0.00500	0.004856		ug/L		97	71 - 125

Lab Sample ID: 860-94298-2 MSD  
Matrix: Water  
Analysis Batch: 30374

Client Sample ID: Galveston Terramar Permit Retest Permit Retest LL  
Blank  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000290	U	0.00500	0.004818		ug/L		96	71 - 125	1	24

Eurofins Houston

## QC Association Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Metals

#### Analysis Batch: 30374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-94298-1	Galveston Terramar Permit Retest Permit Retest	Total/NA	Water	1631E	
860-94298-2	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	
MB 192-30374/3	Method Blank	Total/NA	Water	1631E	
MB 192-30374/4	Method Blank	Total/NA	Water	1631E	
MB 192-30374/5	Method Blank	Total/NA	Water	1631E	
LCS 192-30374/6	Lab Control Sample	Total/NA	Water	1631E	
860-94298-2 MS	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	
860-94298-2 MSD	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	

## Lab Chronicle

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-1

### Retest

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30374	03/03/25 16:19	JEP	EET ARK

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-2

### Retest LL Blank

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30374	03/03/25 16:04	JEP	EET ARK

### Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

## Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Eurofins Houston

## Method Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

## Sample Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-94298-1	Galveston Terramar Permit Retest Permit Retest	Water	02/18/25 12:00	02/21/25 11:15
860-94298-2	Galveston Terramar Permit Retest Permit Retest LL Blank	Water	02/18/25 12:00	02/21/25 11:15



## SUBCONTRACT ORDER

**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:****Eurofins Xenco LLC**

4147 Greenbriar Dr.  
Stafford, TX 77477

Phone: 713-690-4444  
Fax 713-690-5646

*[Signature]* 2/20/25

**PO 022125J**

**Requested Turnaround 5 Days**

**Sample ID: Galveston Terramar Permit Retest Permit Retest  
02/18/2025 12:00**

**Sample No: 5090011-01 Water Sampled:**

**13**

Mercury LL Blank

Mercury LL

Containers Supplied: 35

Special Instructions.



880-94298 Chain of Custody

☐ See Attached

Received Iced Y/N

Temp 20

Galveston Terramar WW

Allen Mowry 2/21/2025 1110  
Released By Date & Time

Nuano 2-21-25  
Received By Date & Time



Ver: 10/10/2024

## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-94298-1

SDG Number: PO 022125J

Login Number: 94298

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

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

## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-94298-1

SDG Number: PO 022125J

Login Number: 94298

List Source: Eurofins Arkansas

List Number: 2

List Creation: 02/24/25 08:56 AM

Creator: Stephens, Ren

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



# EASTEX ENVIRONMENTAL LABORATORY, INC.

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

White Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy

REPORT TO:		INVOICE TO:	
Company: <u>Eastex Environmental Laboratory, Inc.</u>		Company: <u>Eastex Environmental Laboratory, Inc.</u>	
Address: <u>10000 Eastex Drive</u>		Address: <u>SAME</u>	
Attn: <u>INFLU</u>		Attn: <u>INFLU</u>	
Phone#: <u>936-653-3249</u>		Phone#: <u>936-653-3249</u>	
Email: <u>info@eastexlabs.com</u>		Email: <u>info@eastexlabs.com</u>	
P.O. #: <u>10000</u>		P.O. #: <u>10000</u>	
Sampler's Name (print): <u>D.D.</u>		Sampler's Name (print): <u>D.D.</u>	
Sampler's Signature: <u>[Signature]</u>		Sampler's Signature: <u>[Signature]</u>	
Project Name: <u>10000</u>		Project Name: <u>10000</u>	
Work Order ID: <u>10000</u>		Work Order ID: <u>10000</u>	
Sample ID: <u>10000</u>		Sample ID: <u>10000</u>	
Date: <u>10/10/10</u>		Date: <u>10/10/10</u>	
Time: <u>10:10</u>		Time: <u>10:10</u>	
Matrix: <u>WW</u>		Matrix: <u>WW</u>	
C or G: <u>WW</u>		C or G: <u>WW</u>	
DO: <u>10000</u>		DO: <u>10000</u>	
pH: <u>10000</u>		pH: <u>10000</u>	
Cl2: <u>10000</u>		Cl2: <u>10000</u>	
Flow: <u>10000</u>		Flow: <u>10000</u>	
Temp: <u>10000</u>		Temp: <u>10000</u>	
#: <u>10000</u>		#: <u>10000</u>	
Size: <u>10000</u>		Size: <u>10000</u>	
Type: <u>10000</u>		Type: <u>10000</u>	
Containers: <u>10000</u>		Containers: <u>10000</u>	
Field Data: <u>10000</u>		Field Data: <u>10000</u>	
Preservatives: <u>10000</u>		Preservatives: <u>10000</u>	
C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z=Zn Acetate		C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z=Zn Acetate	
ST=Sodium Thiosulfate H=HCL O=Other		ST=Sodium Thiosulfate H=HCL O=Other	
C=Composite G=Grab		C=Composite G=Grab	
DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT=Other		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		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		6=125mL (4oz) 7=60mL (2 oz) 8=40mL Vial 9=Other	
Type: P=Plastic G=Glass T=Teflon S=Sterile		Type: P=Plastic G=Glass T=Teflon S=Sterile	
Remarks: <u>10000</u>		Remarks: <u>10000</u>	
COPY		COPY	
ANALYSIS REQUESTED		ANALYSIS REQUESTED	
Relinquished By: <u>10000</u>		Relinquished By: <u>10000</u>	
Relinquished By: <u>10000</u>		Relinquished By: <u>10000</u>	
Relinquished By: <u>10000</u>		Relinquished By: <u>10000</u>	
LAB USE ONLY		LAB USE ONLY	
Alternate Check In: <u>10000</u>		Alternate Check In: <u>10000</u>	
Sample Condition Acceptable: <u>YES</u>		Sample Condition Acceptable: <u>YES</u>	
Date: <u>10/10/10</u>		Date: <u>10/10/10</u>	
Time: <u>10:10</u>		Time: <u>10:10</u>	
Temp C: <u>10000</u>		Temp C: <u>10000</u>	
*Therm ID: <u>10000</u>		*Therm ID: <u>10000</u>	
Logged In By: <u>10000</u>		Logged In By: <u>10000</u>	
Date: <u>10/10/10</u>		Date: <u>10/10/10</u>	
Time: <u>10:10</u>		Time: <u>10:10</u>	
Received Iced: YES / NO		Received Iced: YES / NO	
Received Iced: YES / NO		Received Iced: YES / NO	
Received Iced: YES / NO		Received Iced: YES / NO	
Date: <u>10/10/10</u>		Date: <u>10/10/10</u>	
Time: <u>10:10</u>		Time: <u>10:10</u>	

\*Thermometer has 0.0 factor and recorded temperature is actual temperature



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



March 04, 2025

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

RE: Galveston Terramar Permit Retest

Enclosed are the results of analyses for samples received by the laboratory on 02/19/25 15:30, with Lab ID Number 5090011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Bowen  
Chief Operations Officer



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



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

### LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Permit Retest  
Client Matrix: Water

Sample Date & Time: 02/18/2025 12:00

Collector: PU  
Sample Type: Grab  
Print Date: 3/4/2025

#### Permit Retest 5090011-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<b><u>Metals</u></b>								
Copper, Total	0.00333	0.00100	mg/L	A	B5B6573	02/26/2025 13:54	EPA 200.8	



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Tel: 936 653 3249



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

**EPA 200.8 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B5B6573 - EPA 200.8</b>		<b>Prepared: 02/24/25 15:34</b>								
<b>Blank (B5B6573-BLK1)</b>		<b>Analyzed: 2/26/2025 12:31:00PM</b>								
Copper, Total	ND	0.00100	mg/L							
<b>LCS (B5B6573-BS1)</b>		<b>Analyzed: 2/26/2025 12:34:00PM</b>								
Copper, Total	0.0952	0.00100	mg/L	0.100		95.2	85-115			
<b>Matrix Spike (B5B6573-MS1)</b>		<b>Source: 5080368-01 Analyzed: 2/26/2025 12:44:00PM</b>								
Copper, Total	0.0954	0.00100	mg/L	0.100	0.00415	91.3	70-130			
<b>Matrix Spike Dup (B5B6573-MSD1)</b>		<b>Source: 5080368-01 Analyzed: 2/26/2025 12:47:00PM</b>								
Copper, Total	0.0986	0.00100	mg/L	0.100	0.00415	94.4	70-130	3.25	20	



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Email: eastexlab@eastex.net  
Tel: 936 653 3249



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

#### Notes and Definitions

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



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Natalie Sewell  
Eastex Environmental Laboratory Inc.  
PO BOX 1089  
Coldspring, Texas 77331

Generated 3/3/2025 5:53:29 PM

## JOB DESCRIPTION

Galveston Terramar Permit Retest Permit Retest  
PO 022125J

## JOB NUMBER

860-94298-1

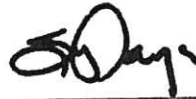
# Eurofins Houston

## Job Notes

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

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

## Authorization



Generated  
3/3/2025 5:53:29 PM

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

## Table of Contents

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## Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

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

Eurofins Houston

## Case Narrative

Client: Eastex Environmental Laboratory Inc.  
Project: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1

Job ID: 860-94298-1

Eurofins Houston

Job Narrative  
860-94298-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

### Receipt

The samples were received on 2/21/2025 11:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

### Metals

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

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## Detection Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest

Lab Sample ID: 860-94298-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.000416	J	0.000500	0.000290	ug/L	1		1631E	Total/NA

Client Sample ID: Galveston Terramar Permit Retest Permit  
Retest LL Blank

Lab Sample ID: 860-94298-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Houston

## Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-1

Retest

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000416	J	0.000500	0.000290	ug/L			03/03/25 16:19	1

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-2

Retest LL Blank

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 16:04	1

Eurofins Houston

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

## Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 192-30374/3

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:42	1

Lab Sample ID: MB 192-30374/4

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:46	1

Lab Sample ID: MB 192-30374/5

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			03/03/25 15:51	1

Lab Sample ID: LCS 192-30374/6

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005100		ug/L		102	77 - 123

Lab Sample ID: 860-94298-2 MS

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Galveston Terramar Permit Retest Permit Retest LL  
Blank  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000290	U	0.00500	0.004856		ug/L		97	71 - 125

Lab Sample ID: 860-94298-2 MSD

Matrix: Water

Analysis Batch: 30374

Client Sample ID: Galveston Terramar Permit Retest Permit Retest LL  
Blank  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000290	U	0.00500	0.004818		ug/L		96	71 - 125	1	24

Eurofins Houston



## QC Association Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Metals

#### Analysis Batch: 30374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-94298-1	Galveston Terramar Permit Retest Permit Retest	Total/NA	Water	1631E	
860-94298-2	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	
MB 192-30374/3	Method Blank	Total/NA	Water	1631E	
MB 192-30374/4	Method Blank	Total/NA	Water	1631E	
MB 192-30374/5	Method Blank	Total/NA	Water	1631E	
LCS 192-30374/6	Lab Control Sample	Total/NA	Water	1631E	
860-94298-2 MS	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	
860-94298-2 MSD	Galveston Terramar Permit Retest Permit Retest LL Bla	Total/NA	Water	1631E	

## Lab Chronicle

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-1

Retest

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30374	03/03/25 16:19	JEP	EET ARK

Client Sample ID: Galveston Terramar Permit Retest Permit

Lab Sample ID: 860-94298-2

Retest LL Blank

Date Collected: 02/18/25 12:00

Matrix: Water

Date Received: 02/21/25 11:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	30374	03/03/25 16:04	JEP	EET ARK

### Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Eurofins Houston

## Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

### Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	08-31-25
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Eurofins Houston

## Method Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

Eurofins Houston

## Sample Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: Galveston Terramar Permit Retest Permit Retest

Job ID: 860-94298-1  
SDG: PO 022125J

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-94298-1	Galveston Terramar Permit Retest Permit Retest	Water	02/18/25 12:00	02/21/25 11:15
860-94298-2	Galveston Terramar Permit Retest Permit Retest LL Blank	Water	02/18/25 12:00	02/21/25 11:15



## SUBCONTRACT ORDER

### 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:

#### Eurofins Xenco LLC

4147 Greenbriar Dr.  
Stafford, TX 77477

Phone: 713-690-4444  
Fax 713-690-5646

*[Signature]* 2/20/25

PO 022125J

Requested Turnaround 5 Days

Sample ID: Galveston Terramar Permit Retest Permit Retest  
02/18/2025 12:00

Sample No: 5090011-01 Water Sampled:

13

Mercury LL Blank

Mercury LL

Containers Supplied: 35

Special Instructions.



880-94298 Chain of Custody

☐ See Attached

Received Iced Y/N

Temp 20

Galveston Terramar WW

*[Signature]*  
Released By

2/21/2025 1110  
Date & Time

*[Signature]*  
Received By

2-21-25  
Date & Time

## Chain of Custody Record

[illegible]

## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-94298-1

SDG Number: PO 022125J

Login Number: 94298

List Source: Eurofins Houston

List Number: 1

Creator: Jimenez, Nicanor

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



## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-94298-1

SDG Number: PO 022125J

Login Number: 94298

List Number: 2

Creator: Stephens, Ren

List Source: Eurofins Arkansas

List Creation: 02/24/25 08:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

REPORT TO:

Company: *Mat. Recovery*

Address:

Attn:

Phone#:

Email:

P.O. #:

INVOICE TO:

Company:

Address: SAME

Attn:

Phone#:

Remarks:

COPY

Sampler's Name (print):

Sampler's Signature:

Project Name:

C or G:

Matrix:

Container Size:

Type:

Preservatives:

C= Composite G= Grab

DW= Drinking Water WW= Wastewater SO= Soil/Sludge OT= Other

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

P= Plastic G= Glass T= Teflon S= Sterile

C= Chilled S= Sulfuric Acid N= Nitric Acid B= Base/Caustic Z= Zn Acetate

ST= Sodium Thiosulfate H= HCL Q= Other

INSTRUCTIONS:

Field Data

Containers

Work Order ID

Sample ID

Date

Time

Matrix

C or G

DO

pH

CI2

Flow

Temp

#

Size

Type

Pres

Relinquished By:

Relinquished By:

Relinquished By:

Received By:

Received By:

Received By:

LAB USE ONLY

Alternate Check In:

Sample Condition Acceptable:

Received By and/or Checked In By:

Received Iced:

Received Iced:

Received Iced:

Date

Date

Date

Time

Time

Time

Logged In By:

Time



25 October 2024

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

RE: Galveston Terramar Long Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 13:56, with Lab ID Number 4391431. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

  
Mark Bourgeois  
Special Projects Manager

**CORRECTED REPORT**  
**ORIGINAL REPORT**  
**DATE**  
10/22/24



Environment Testing

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Natalie Sewell  
Eastex Environmental Laboratory Inc.  
PO BOX 1089  
Coldspring, Texas 77331

Generated 10/24/2024 5:17:34 PM Revision 1

## JOB DESCRIPTION

TERRAMAR  
091924B

## JOB NUMBER

860-83578-1

# Eurofins Houston

## Job Notes

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

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

## Authorization



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

Generated  
10/24/2024 5:17:34 PM  
Revision 1

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## Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

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

#### Metals

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

### Glossary

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



## Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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## Case Narrative

Client: Eastex Environmental Laboratory Inc.  
Project: TERRAMAR

Job ID: 860-83578-1

**Job ID: 860-83578-1**

**Eurofins Houston**

**Job Narrative  
860-83578-1**

### REVISION

The report being provided is a revision of the original report sent on 10/15/2024. The report (revision 1) is being revised due to including 1,2,4,5 Trichlorobenzene to the 625 list.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

### **Receipt**

The samples were received on 9/27/2024 10:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

### **Receipt Exceptions**

Container M-1 was received broken in Denver: Galveston Terramar Long Permit Renewal Effluent (860-83578-1).

Container "L-1" was broken in storage in Denver: Galveston Terramar Long Permit Renewal Effluent (860-83578-1).

The following samples were collected in an improper container: Galveston Terramar Long Permit Renewal Effluent (860-83578-1) and LL Mercury Blank (860-83578-2). The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE\_ONE> proceed with/cancel analysis. LL MERCURY RECEIVED WITH HCL

### **GC/MS Semi VOA**

Method 625.1\_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-190341 and analytical batch 860-190402 was outside the upper control limit.

Method 625.1\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-190341 and analytical batch 860-190402 recovered outside control limits for the following analytes: Guthion, Chlorpyrifos, Demeton, Total, Methyl parathion, Malathion and Diazinon. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-190341 and analytical batch 860-190402 recovered outside control limits for the following analytes: Anthracene, Bis(2-ethylhexyl) phthalate, Butyl benzyl phthalate, Dimethyl phthalate and Di-n-octyl phthalate. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1\_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-190341 and analytical batch 860-190402 recovered outside control limit for Hexachloroethane. Sample was re-extracted and re-analyzed. Both sets of data have reported.

Method D7065\_11: The reference method requires samples to be preserved to a pH of 1-2. Sample Galveston Terramar Long Permit Renewal Effluent (860-83578-1) in preparation batch 280-669678 was received with insufficient preservation at a pH of 6. The sample was preserved to the appropriate pH in the laboratory.

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

### **GC Semi VOA**

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

Eurofins Houston

## Case Narrative

Client: Eastex Environmental Laboratory Inc.  
Project: TERRAMAR

Job ID: 860-83578-1

**Job ID: 860-83578-1 (Continued)**

**Eurofins Houston**

### Pesticides/PCBs

Method 608.3: The surrogate recovery for the blank associated with preparation batch 860-190585 and analytical batch 860-190632 was outside the upper control limits.  
(MB 860-190585/1-A)

Method 608.3: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-190585 and analytical batch 860-190632 recovered outside control limits for the following analytes: 4,4'-DDT, Endosulfan II, Endrin, Endrin aldehyde, Endrin ketone and Heptachlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

### HPLC/IC

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

### Metals

Method 1631E: The following sample was labeled as "Field Blank". The results for this sample do not match what is consistent with a field blank. The sample was analyzed twice with both results having a hit above the reporting limit.

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

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Eurofins Houston

## Detection Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

**Client Sample ID: Galveston Terramar Long Permit Renewal  
Effluent**

**Lab Sample ID: 860-83578-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Polychlorinated biphenyls, Total	NC		0.000504	0.000252	mg/L	1			608.3	Total/NA
Pentachlorophenol	0.000166	J	0.000201	0.0000445	mg/L	1			615	Total/NA
Mercury	0.723		0.500	0.200	ng/L	1			1631E	Total/NA

**Client Sample ID: LL Mercury Blank**

**Lab Sample ID: 860-83578-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Mercury	0.745		0.500	0.200	ng/L	1			1631E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Houston

# Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

Client Sample ID: Galveston Terramar Long Permit Renewal

Lab Sample ID: 860-83578-1

Effluent

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

## Method: EPA 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.106	U	0.566	0.106	ug/L		09/30/24 07:53	09/30/24 21:02	1
Acenaphthylene	<0.0987	U	0.566	0.0987	ug/L		09/30/24 07:53	09/30/24 21:02	1
Anthracene	<0.0929	U *	0.566	0.0929	ug/L		09/30/24 07:53	09/30/24 21:02	1
Azobenzene	<0.103	U	0.566	0.103	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzidine	<0.0891	U	1.13	0.0891	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzo[a]anthracene	<0.00944	U	0.113	0.00944	ug/L		09/30/24 07:53	09/30/24 21:02	1
Azinphos-methyl	<0.0161	U *	0.0566	0.0161	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzo[a]pyrene	<0.00990	U	0.113	0.00990	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzo[b]fluoranthene	<0.0657	U	0.566	0.0657	ug/L		09/30/24 07:53	09/30/24 21:02	1
Chlorpyrifos	<0.0158	U *	0.0566	0.0158	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzo[g,h,i]perylene	<0.0342	U	0.566	0.0342	ug/L		09/30/24 07:53	09/30/24 21:02	1
Demeton, Total	<0.0166	U	0.0565	0.0166	ug/L		09/30/24 07:53	09/30/24 21:02	1
Benzo[k]fluoranthene	<0.0468	U	0.566	0.0468	ug/L		09/30/24 07:53	09/30/24 21:02	1
Bis(2-chloroethoxy)methane	<0.0965	U	0.566	0.0965	ug/L		09/30/24 07:53	09/30/24 21:02	1
Bis(2-chloroethyl)ether	<0.212	U	0.566	0.212	ug/L		09/30/24 07:53	09/30/24 21:02	1
Diazinon	<0.0147	U *	0.113	0.0147	ug/L		09/30/24 07:53	09/30/24 21:02	1
bis (2-chloroisopropyl) ether	<0.127	U	0.566	0.127	ug/L		09/30/24 07:53	09/30/24 21:02	1
Ethyl Parathion	<0.0497	U *	0.113	0.0497	ug/L		09/30/24 07:53	09/30/24 21:02	1
Bis(2-ethylhexyl) phthalate	<1.41	U *	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
Malathion	<0.0148	U *	0.0566	0.0148	ug/L		09/30/24 07:53	09/30/24 21:02	1
4-Bromophenyl phenyl ether	<0.0993	U	0.566	0.0993	ug/L		09/30/24 07:53	09/30/24 21:02	1
Butyl benzyl phthalate	<1.41	U *	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
4-Chloro-3-methylphenol	<0.103	U	0.566	0.103	ug/L		09/30/24 07:53	09/30/24 21:02	1
2-Chloronaphthalene	<0.374	U	0.566	0.374	ug/L		09/30/24 07:53	09/30/24 21:02	1
2-Chlorophenol	<0.0749	U	0.566	0.0749	ug/L		09/30/24 07:53	09/30/24 21:02	1
4-Chlorophenyl phenyl ether	<0.129	U	0.566	0.129	ug/L		09/30/24 07:53	09/30/24 21:02	1
Chlorpyrifos	<0.0158	U *	0.0566	0.0158	ug/L		09/30/24 07:53	09/30/24 21:02	1
Chrysene	<0.0807	U	0.566	0.0807	ug/L		09/30/24 07:53	09/30/24 21:02	1
Demeton, Total	<0.0166	U	0.0565	0.0166	ug/L		09/30/24 07:53	09/30/24 21:02	1
Diazinon	<0.0147	U *	0.113	0.0147	ug/L		09/30/24 07:53	09/30/24 21:02	1
Dibenz(a,h)anthracene	<0.0504	U	0.113	0.0504	ug/L		09/30/24 07:53	09/30/24 21:02	1
Dibenzofuran	<0.105	U	0.566	0.105	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,2-Dichlorobenzene	<0.0931	U	0.566	0.0931	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,3-Dichlorobenzene	<0.101	U	0.566	0.101	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,4-Dichlorobenzene	<0.0771	U	0.566	0.0771	ug/L		09/30/24 07:53	09/30/24 21:02	1
3,3'-Dichlorobenzidine	<0.181	U	0.566	0.181	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,4-Dichlorophenol	<0.139	U	0.566	0.139	ug/L		09/30/24 07:53	09/30/24 21:02	1
Diethyl phthalate	<1.41	U	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,4-Dimethylphenol	<0.190	U	0.566	0.190	ug/L		09/30/24 07:53	09/30/24 21:02	1
Dimethyl phthalate	<1.41	U *	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
Di-n-butyl phthalate	<1.41	U	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
4,6-Dinitro-2-methylphenol	<0.199	U	1.13	0.199	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,4-Dinitrophenol	<0.103	U	2.83	0.103	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,4-Dinitrotoluene	<0.203	U	0.566	0.203	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,6-Dinitrotoluene	<0.115	U	0.566	0.115	ug/L		09/30/24 07:53	09/30/24 21:02	1
Di-n-octyl phthalate	<1.41	U *	2.83	1.41	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,2-Diphenylhydrazine	<0.283	U	0.566	0.283	ug/L		09/30/24 07:53	09/30/24 21:02	1
Fluoranthene	<0.0874	U	0.566	0.0874	ug/L		09/30/24 07:53	09/30/24 21:02	1

Eurofins Houston

# Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

Client Sample ID: Galveston Terramar Long Permit Renewal

Lab Sample ID: 860-83578-1

## Effluent

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

### Method: EPA 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.0939	U	0.566	0.0939	ug/L		09/30/24 07:53	09/30/24 21:02	1
Guthion	<0.0161	U *	0.0566	0.0161	ug/L		09/30/24 07:53	09/30/24 21:02	1
Hexachlorobenzene	<0.0965	U	0.566	0.0965	ug/L		09/30/24 07:53	09/30/24 21:02	1
Hexachlorobutadiene	<0.102	U	0.566	0.102	ug/L		09/30/24 07:53	09/30/24 21:02	1
Hexachlorocyclopentadiene	<0.0507	U	0.566	0.0507	ug/L		09/30/24 07:53	09/30/24 21:02	1
Hexachloroethane	<0.101	U *	0.566	0.101	ug/L		09/30/24 07:53	09/30/24 21:02	1
Indeno[1,2,3-cd]pyrene	<0.0990	U	0.566	0.0990	ug/L		09/30/24 07:53	09/30/24 21:02	1
Isophorone	<0.105	U	0.566	0.105	ug/L		09/30/24 07:53	09/30/24 21:02	1
Malathion	<0.0148	U *	0.0566	0.0148	ug/L		09/30/24 07:53	09/30/24 21:02	1
Methyl parathion	<0.316	U *	0.566	0.316	ug/L		09/30/24 07:53	09/30/24 21:02	1
Naphthalene	<0.0935	U	0.566	0.0935	ug/L		09/30/24 07:53	09/30/24 21:02	1
Nitrobenzene	<0.0729	U	0.566	0.0729	ug/L		09/30/24 07:53	09/30/24 21:02	1
2-Nitrophenol	<0.135	U	0.566	0.135	ug/L		09/30/24 07:53	09/30/24 21:02	1
4-Nitrophenol	<0.133	U	0.566	0.133	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosodiethylamine	<0.533	U	1.13	0.533	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosodimethylamine	<0.0990	U	0.566	0.0990	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosodi-n-butylamine	<0.510	U *	1.13	0.510	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosodi-n-propylamine	<0.117	U	0.566	0.117	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosodiphenylamine	<0.143	U	0.566	0.143	ug/L		09/30/24 07:53	09/30/24 21:02	1
N-Nitrosomethylethylamine	<0.291	U	0.566	0.291	ug/L		09/30/24 07:53	09/30/24 21:02	1
Pentachlorobenzene	<0.263	U	0.566	0.263	ug/L		09/30/24 07:53	09/30/24 21:02	1
Pentachloroethane	<0.285	U	0.566	0.285	ug/L		09/30/24 07:53	09/30/24 21:02	1
Pentachlorophenol	<1.03	U	1.13	1.03	ug/L		09/30/24 07:53	09/30/24 21:02	1
Phenanthrene	<0.133	U	0.566	0.133	ug/L		09/30/24 07:53	09/30/24 21:02	1
Phenol	<0.444	U	2.83	0.444	ug/L		09/30/24 07:53	09/30/24 21:02	1
Pyrene	<0.0840	U	0.566	0.0840	ug/L		09/30/24 07:53	09/30/24 21:02	1
Pyridine	<1.42	U	2.83	1.42	ug/L		09/30/24 07:53	09/30/24 21:02	1
Total Cresols	<0.127	U	0.566	0.127	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,2,4-Trichlorobenzene	<0.0759	U	0.566	0.0759	ug/L		09/30/24 07:53	09/30/24 21:02	1
2,4,6-Trichlorophenol	<0.228	U	0.566	0.228	ug/L		09/30/24 07:53	09/30/24 21:02	1
2-Methylphenol	<0.104	U	0.566	0.104	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,2,4,5-Tetrachlorobenzene	<0.0948	U	0.566	0.0948	ug/L		09/30/24 07:53	09/30/24 21:02	1
3 & 4 Methylphenol	<0.138	U	0.566	0.138	ug/L		09/30/24 07:53	09/30/24 21:02	1
1,2,4,5-Tetrachlorobenzene	<0.0948	U	0.566	0.0948	ug/L		09/30/24 07:53	09/30/24 21:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	80		43 - 130	09/30/24 07:53	09/30/24 21:02	1
2-Fluorophenol (Surr)	74		19 - 120	09/30/24 07:53	09/30/24 21:02	1
Nitrobenzene-d5 (Surr)	95		37 - 133	09/30/24 07:53	09/30/24 21:02	1
Phenol-d5 (Surr)	46		8 - 124	09/30/24 07:53	09/30/24 21:02	1
p-Terphenyl-d14 (Surr)	111		47 - 130	09/30/24 07:53	09/30/24 21:02	1
2,4,6-Tribromophenol (Surr)	95		35 - 130	09/30/24 07:53	09/30/24 21:02	1
2-Fluorobiphenyl	80		43 - 130	09/30/24 07:53	09/30/24 21:02	1
2-Fluorophenol (Surr)	74		19 - 120	09/30/24 07:53	09/30/24 21:02	1
Nitrobenzene-d5 (Surr)	95		37 - 133	09/30/24 07:53	09/30/24 21:02	1
Phenol-d5 (Surr)	46		8 - 124	09/30/24 07:53	09/30/24 21:02	1
p-Terphenyl-d14 (Surr)	111		47 - 130	09/30/24 07:53	09/30/24 21:02	1
2,4,6-Tribromophenol (Surr)	95		35 - 130	09/30/24 07:53	09/30/24 21:02	1

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# Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

Client Sample ID: Galveston Terramar Long Permit Renewal

Lab Sample ID: 860-83578-1

## Effluent

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

### Method: ASTM D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1140	U	4980	1140	ng/L		10/03/24 14:14	10/04/24 10:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-nonylphenol (Surr)	69		58 - 115				10/03/24 14:14	10/04/24 10:37	1
4-nonylphenol monoethoxylate (Surr)	74		54 - 139				10/03/24 14:14	10/04/24 10:37	1

### Method: EPA 608.3 - Organochlorine Pesticides/PCBs in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0000160	U	0.0000504	0.0000160	mg/L		10/01/24 07:20	10/01/24 17:06	1
alpha-BHC	<0.0000160	U	0.0000504	0.0000160	mg/L		10/01/24 07:20	10/01/24 17:06	1
beta-BHC	<0.0000173	U	0.0000504	0.0000173	mg/L		10/01/24 07:20	10/01/24 17:06	1
Chlordane (technical)	<0.000197	U	0.00101	0.000197	mg/L		10/01/24 07:20	10/01/24 17:06	1
cis-Chlordane	<0.0000189	U	0.0000504	0.0000189	mg/L		10/01/24 07:20	10/01/24 17:06	1
4,4'-DDD	<0.0000180	U	0.0000504	0.0000180	mg/L		10/01/24 07:20	10/01/24 17:06	1
4,4'-DDE	<0.0000162	U	0.0000504	0.0000162	mg/L		10/01/24 07:20	10/01/24 17:06	1
4,4'-DDT	<0.0000181	U *	0.0000504	0.0000181	mg/L		10/01/24 07:20	10/01/24 17:06	1
delta-BHC	<0.00000881	U	0.0000504	0.0000088	mg/L		10/01/24 07:20	10/01/24 17:06	1
Dicofol	<0.0000252	U	0.0000252	0.0000252	mg/L		10/01/24 07:20	10/01/24 17:06	1
Dieldrin	<0.0000174	U	0.0000504	0.0000174	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endosulfan I	<0.0000187	U	0.0000504	0.0000187	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endosulfan II	<0.0000178	U *	0.0000504	0.0000178	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endosulfan sulfate	<0.0000154	U	0.0000504	0.0000154	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endrin	<0.0000167	U *	0.0000504	0.0000167	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endrin aldehyde	<0.0000168	U *	0.0000504	0.0000168	mg/L		10/01/24 07:20	10/01/24 17:06	1
Endrin ketone	<0.0000172	U *	0.0000504	0.0000172	mg/L		10/01/24 07:20	10/01/24 17:06	1
gamma-BHC (Lindane)	<0.0000171	U	0.0000504	0.0000171	mg/L		10/01/24 07:20	10/01/24 17:06	1
Heptachlor	<0.0000280	U *	0.0000504	0.0000280	mg/L		10/01/24 07:20	10/01/24 17:06	1
Heptachlor epoxide	<0.0000183	U	0.0000504	0.0000183	mg/L		10/01/24 07:20	10/01/24 17:06	1
Methoxychlor	<0.0000188	U	0.0000504	0.0000188	mg/L		10/01/24 07:20	10/01/24 17:06	1
Mirex	<0.0000252	U	0.0000252	0.0000252	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1016	<0.0000525	U	0.000252	0.0000525	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1221	<0.0000525	U	0.000504	0.0000525	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1232	<0.0000525	U	0.000504	0.0000525	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1242	<0.0000525	U	0.000252	0.0000525	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1248	<0.0000525	U	0.000504	0.0000525	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1254	<0.0000660	U	0.000504	0.0000660	mg/L		10/01/24 07:20	10/01/24 17:06	1
PCB-1260	<0.0000660	U	0.000252	0.0000660	mg/L		10/01/24 07:20	10/01/24 17:06	1
Polychlorinated biphenyls, Total	NC		0.000504	0.000252	mg/L		10/01/24 07:20	10/01/24 17:06	1
Toxaphene	<0.000340	U	0.00101	0.000340	mg/L		10/01/24 07:20	10/01/24 17:06	1
trans-Chlordane	<0.0000190	U	0.0000504	0.0000190	mg/L		10/01/24 07:20	10/01/24 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		45 - 115				10/01/24 07:20	10/01/24 17:06	1
Tetrachloro-m-xylene	73		41 - 110				10/01/24 07:20	10/01/24 17:06	1

### Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000541	U	0.000201	0.0000541	mg/L		10/01/24 09:30	10/01/24 16:47	1

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## Client Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

**Client Sample ID: Galveston Terramar Long Permit Renewal**

**Lab Sample ID: 860-83578-1**

**Effluent**

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

**Method: EPA-01 615 - Herbicides (GC) (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	<0.0000495	U	0.000201	0.0000495	mg/L		10/01/24 09:30	10/01/24 16:47	1
Silvex (2,4,5-TP)	<0.0000424	U	0.000201	0.0000424	mg/L		10/01/24 09:30	10/01/24 16:47	1
2,4,5-T	<0.0000395	U	0.000201	0.0000395	mg/L		10/01/24 09:30	10/01/24 16:47	1
Dalapon	<0.0000478	U	0.000201	0.0000478	mg/L		10/01/24 09:30	10/01/24 16:47	1
Dicamba	<0.0000425	U	0.000201	0.0000425	mg/L		10/01/24 09:30	10/01/24 16:47	1
Dichlorprop	<0.0000529	U	0.000201	0.0000529	mg/L		10/01/24 09:30	10/01/24 16:47	1
Dinoseb	<0.0000344	U	0.000201	0.0000344	mg/L		10/01/24 09:30	10/01/24 16:47	1
MCPA	<0.00528	U	0.0201	0.00528	mg/L		10/01/24 09:30	10/01/24 16:47	1
MCPP	<0.0100	U	0.0201	0.0100	mg/L		10/01/24 09:30	10/01/24 16:47	1
Pentachlorophenol	0.000166	J	0.000201	0.0000445	mg/L		10/01/24 09:30	10/01/24 16:47	1
Hexachlorophene	<0.000811	U	0.00502	0.000811	mg/L		10/01/24 09:30	10/01/24 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	133		45 - 150				10/01/24 09:30	10/01/24 16:47	1

**Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		10/01/24 05:24	10/15/24 03:01	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		10/01/24 05:24	10/15/24 03:01	1

**Method: EPA 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.723		0.500	0.200	ng/L		10/04/24 15:00	10/07/24 12:59	1

**Client Sample ID: LL Mercury Blank**

**Lab Sample ID: 860-83578-2**

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

**Method: EPA 1631E - Mercury, Low Level (CVAFS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.745		0.500	0.200	ng/L		10/04/24 15:00	10/07/24 13:07	1

## Surrogate Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)							
		FBP (43-130)	FBP (43-130)	2FP (19-120)	2FP (19-120)	NBZ (37-133)	NBZ (37-133)	PHL (8-124)	PHL (8-124)
860-83578-1	Galveston Terramar Long Permit	80	80	74	74	95	95	46	46
LCS 860-190341/2-A	Lab Control Sample	89	89	68	68	108	108	46	46
LCS 860-190341/4-A	Lab Control Sample	100	100	59	59	117	117	46	46
LCSD 860-190341/3-A	Lab Control Sample Dup	94	94	61	61	107	107	41	41
LCSD 860-190341/5-A	Lab Control Sample Dup	100	100	58	58	110	110	45	45
MB 860-190341/1-A	Method Blank	95	95	62	62	108	108	40	40

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TPHd14 (47-130)	TPHd14 (47-130)	TBP (35-130)	TBP (35-130)
860-83578-1	Galveston Terramar Long Permit	111	111	95	95
LCS 860-190341/2-A	Lab Control Sample	135 S1+	135 S1+	97	97
LCS 860-190341/4-A	Lab Control Sample	128	128	92	92
LCSD 860-190341/3-A	Lab Control Sample Dup	136 S1+	136 S1+	107	107
LCSD 860-190341/5-A	Lab Control Sample Dup	130	130	96	96
MB 860-190341/1-A	Method Blank	137 S1+	137 S1+	90	90

#### Surrogate Legend

FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol (Surr)  
NBZ = Nitrobenzene-d5 (Surr)  
PHL = Phenol-d5 (Surr)  
TPHd14 = p-Terphenyl-d14 (Surr)  
TBP = 2,4,6-Tribromophenol (Surr)

### Method: D7065-11 - Determination of Nonylphenols

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		4NPH (58-115)	4NPME (54-139)
280-197441-A-4-B MS	Matrix Spike	104	116
280-197441-A-4-C MSD	Matrix Spike Duplicate	109	120
860-83578-1	Galveston Terramar Long Permit Renewal Effluent	69	74
LCS 280-669678/2-A	Lab Control Sample	114	129
MB 280-669678/1-A	Method Blank	104	121

#### Surrogate Legend

4NPH = 4-nonylphenol (Surr)  
4NPME = 4-nonylphenol monoethoxylate (Surr)

### Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (45-115)	TCX1 (41-110)
860-83578-1	Galveston Terramar Long Permit	67	73
LCS 860-190585/2-A	Lab Control Sample	84	85
LCS 860-190585/4-A	Lab Control Sample	91	89
LCSD 860-190585/3-A	Lab Control Sample Dup	84	85

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## Surrogate Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (45-115)	TCX1 (41-110)
LCSD 860-190585/5-A	Lab Control Sample Dup	86	85
MB 860-190585/1-A	Method Blank	121 S1+	93
<b>Surrogate Legend</b>			
DCB = DCB Decachlorobiphenyl (Surr)			
TCX = Tetrachloro-m-xylene			

### Method: 615 - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPAA1 (45-150)	
860-83578-1	Galveston Terramar Long Permit	133	
LCS 860-190646/2-A	Lab Control Sample	89	
LCS 860-190646/4-A	Lab Control Sample	73	
LCSD 860-190646/3-A	Lab Control Sample Dup	93	
LCSD 860-190646/5-A	Lab Control Sample Dup	81	
MB 860-190646/1-A	Method Blank	75	
<b>Surrogate Legend</b>			
DCPAA = 2,4-Dichlorophenylacetic acid			

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-190341/1-A  
Matrix: Water  
Analysis Batch: 190402

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190341

Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.107	U	0.571	0.107	ug/L		09/30/24 07:53	09/30/24 18:33	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		09/30/24 07:53	09/30/24 18:33	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		09/30/24 07:53	09/30/24 18:33	1
Azobenzene	<0.104	U	0.571	0.104	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzidine	<0.0900	U	1.14	0.0900	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzo[a]anthracene	<0.00953	U	0.114	0.00953	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzo[a]pyrene	<0.0100	U	0.114	0.0100	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		09/30/24 07:53	09/30/24 18:33	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		09/30/24 07:53	09/30/24 18:33	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		09/30/24 07:53	09/30/24 18:33	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		09/30/24 07:53	09/30/24 18:33	1
bis (2-chloroisopropyl) ether	<0.128	U	0.571	0.128	ug/L		09/30/24 07:53	09/30/24 18:33	1
Ethyl Parathion	<0.0502	U	0.114	0.0502	ug/L		09/30/24 07:53	09/30/24 18:33	1
Bis(2-ethylhexyl) phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		09/30/24 07:53	09/30/24 18:33	1
Butyl benzyl phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		09/30/24 07:53	09/30/24 18:33	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		09/30/24 07:53	09/30/24 18:33	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		09/30/24 07:53	09/30/24 18:33	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		09/30/24 07:53	09/30/24 18:33	1
Chlorpyrifos	<0.0159	U	0.0571	0.0159	ug/L		09/30/24 07:53	09/30/24 18:33	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		09/30/24 07:53	09/30/24 18:33	1
Demeton, Total	<0.0168	U	0.0571	0.0168	ug/L		09/30/24 07:53	09/30/24 18:33	1
Diazinon	<0.0148	U	0.114	0.0148	ug/L		09/30/24 07:53	09/30/24 18:33	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		09/30/24 07:53	09/30/24 18:33	1
Dibenzofuran	<0.107	U	0.571	0.107	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		09/30/24 07:53	09/30/24 18:33	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		09/30/24 07:53	09/30/24 18:33	1
Diethyl phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		09/30/24 07:53	09/30/24 18:33	1
Dimethyl phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
Di-n-butyl phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		09/30/24 07:53	09/30/24 18:33	1
Di-n-octyl phthalate	<1.43	U	2.86	1.43	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,2-Diphenylhydrazine	<0.286	U	0.571	0.286	ug/L		09/30/24 07:53	09/30/24 18:33	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		09/30/24 07:53	09/30/24 18:33	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		09/30/24 07:53	09/30/24 18:33	1
Azinphos-methyl	<0.0162	U	0.0571	0.0162	ug/L		09/30/24 07:53	09/30/24 18:33	1
Guthion	<0.0162	U	0.0571	0.0162	ug/L		09/30/24 07:53	09/30/24 18:33	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		09/30/24 07:53	09/30/24 18:33	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		09/30/24 07:53	09/30/24 18:33	1

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-190341/1-A  
Matrix: Water  
Analysis Batch: 190402

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		09/30/24 07:53	09/30/24 18:33	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		09/30/24 07:53	09/30/24 18:33	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		09/30/24 07:53	09/30/24 18:33	1
Isophorone	<0.107	U	0.571	0.107	ug/L		09/30/24 07:53	09/30/24 18:33	1
Malathion	<0.0150	U	0.0571	0.0150	ug/L		09/30/24 07:53	09/30/24 18:33	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		09/30/24 07:53	09/30/24 18:33	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		09/30/24 07:53	09/30/24 18:33	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		09/30/24 07:53	09/30/24 18:33	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		09/30/24 07:53	09/30/24 18:33	1
4-Nitrophenol	<0.135	U	0.571	0.135	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		09/30/24 07:53	09/30/24 18:33	1
N-Nitrosomethylethylamine	<0.294	U	0.571	0.294	ug/L		09/30/24 07:53	09/30/24 18:33	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		09/30/24 07:53	09/30/24 18:33	1
Pentachloroethane	<0.288	U	0.571	0.288	ug/L		09/30/24 07:53	09/30/24 18:33	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		09/30/24 07:53	09/30/24 18:33	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		09/30/24 07:53	09/30/24 18:33	1
Phenol	<0.448	U	2.86	0.448	ug/L		09/30/24 07:53	09/30/24 18:33	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		09/30/24 07:53	09/30/24 18:33	1
Pyridine	<1.44	U	2.86	1.44	ug/L		09/30/24 07:53	09/30/24 18:33	1
Total Cresols	<0.128	U	0.571	0.128	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		09/30/24 07:53	09/30/24 18:33	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		09/30/24 07:53	09/30/24 18:33	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		09/30/24 07:53	09/30/24 18:33	1
3 & 4 Methylphenol	<0.139	U	0.571	0.139	ug/L		09/30/24 07:53	09/30/24 18:33	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		09/30/24 07:53	09/30/24 18:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		43 - 130	09/30/24 07:53	09/30/24 18:33	1
2-Fluorophenol (Surr)	62		19 - 120	09/30/24 07:53	09/30/24 18:33	1
Nitrobenzene-d5 (Surr)	108		37 - 133	09/30/24 07:53	09/30/24 18:33	1
Phenol-d5 (Surr)	40		8 - 124	09/30/24 07:53	09/30/24 18:33	1
p-Terphenyl-d14 (Surr)	137	S1+	47 - 130	09/30/24 07:53	09/30/24 18:33	1
2,4,6-Tribromophenol (Surr)	90		35 - 130	09/30/24 07:53	09/30/24 18:33	1

Lab Sample ID: LCS 860-190341/2-A  
Matrix: Water  
Analysis Batch: 190402

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 190341

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	2.86	2.483		ug/L		87	60 - 132
Acenaphthylene	2.86	3.010		ug/L		105	54 - 126
Anthracene	2.86	3.656	*+	ug/L		128	43 - 120
Azobenzene	2.86	2.735		ug/L		96	63 - 130
Benzidine	2.86	0.8530	J	ug/L		30	11 - 110

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 860-190341/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 190402				Prep Batch: 190341			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzo[a]anthracene	2.86	3.335		ug/L		117	42 - 133
Benzo[a]pyrene	2.86	3.158		ug/L		111	32 - 148
Benzo[b]fluoranthene	2.86	3.296		ug/L		115	42 - 140
Benzo[g,h,i]perylene	2.86	2.846		ug/L		100	25 - 195
Benzo[k]fluoranthene	2.86	3.764		ug/L		132	25 - 146
Bis(2-chloroethoxy)methane	2.86	3.112		ug/L		109	49 - 165
Bis(2-chloroethyl)ether	2.86	2.875		ug/L		101	43 - 126
bis (2-chloroisopropyl) ether	2.86	2.285	I	ug/L		80	63 - 139
Bis(2-ethylhexyl) phthalate	2.86	4.804	*+	ug/L		168	29 - 137
4-Bromophenyl phenyl ether	2.86	2.927		ug/L		102	65 - 120
Butyl benzyl phthalate	2.86	5.067	*+	ug/L		177	70 - 130
4-Chloro-3-methylphenol	2.86	3.285		ug/L		115	41 - 128
2-Chloronaphthalene	2.86	2.243		ug/L		79	65 - 120
2-Chlorophenol	2.86	2.678		ug/L		94	36 - 120
4-Chlorophenyl phenyl ether	2.86	2.472		ug/L		87	38 - 145
Chrysene	2.86	2.997		ug/L		105	47 - 130
Dibenz(a,h)anthracene	2.86	3.029		ug/L		106	32 - 200
Dibenzofuran	2.86	2.612		ug/L		91	48 - 130
1,2-Dichlorobenzene	2.86	2.094		ug/L		73	32 - 130
1,3-Dichlorobenzene	2.86	2.082		ug/L		73	26 - 130
1,4-Dichlorobenzene	2.86	2.029		ug/L		71	28 - 130
3,3'-Dichlorobenzidine	2.86	3.600		ug/L		126	20 - 150
2,4-Dichlorophenol	2.86	2.694		ug/L		94	53 - 122
Diethyl phthalate	2.86	3.088		ug/L		108	62 - 120
2,4-Dimethylphenol	2.86	3.278		ug/L		115	42 - 120
Dimethyl phthalate	2.86	3.632	*+	ug/L		127	67 - 120
Di-n-butyl phthalate	2.86	3.287		ug/L		115	8 - 120
4,6-Dinitro-2-methylphenol	2.86	1.821		ug/L		64	53 - 130
2,4-Dinitrophenol	2.86	2.055	J	ug/L		72	26 - 173
2,4-Dinitrotoluene	2.86	2.780		ug/L		97	48 - 127
2,6-Dinitrotoluene	2.86	3.326		ug/L		116	68 - 137
Di-n-octyl phthalate	2.86	4.639	*+	ug/L		162	19 - 132
1,2-Diphenylhydrazine	2.86	2.657		ug/L		93	48 - 130
Fluoranthene	2.86	2.496		ug/L		87	43 - 121
Fluorene	2.86	2.487		ug/L		87	70 - 120
Hexachlorobenzene	2.86	3.171		ug/L		111	8 - 142
Hexachlorobutadiene	2.86	1.675		ug/L		59	38 - 120
Hexachlorocyclopentadiene	2.86	1.006		ug/L		35	10 - 130
Hexachloroethane	2.86	1.539	*-	ug/L		54	55 - 120
Indeno[1,2,3-cd]pyrene	2.86	3.073		ug/L		108	29 - 151
Isophorone	2.86	3.134		ug/L		110	47 - 180
Naphthalene	2.86	2.224		ug/L		78	36 - 120
Nitrobenzene	2.86	3.217		ug/L		113	54 - 130
2-Nitrophenol	2.86	3.381		ug/L		118	45 - 167
4-Nitrophenol	2.86	0.6116		ug/L		21	13 - 129
N-Nitrosodiethylamine	2.86	3.098		ug/L		108	54 - 130
N-Nitrosodimethylamine	2.86	0.9089		ug/L		32	30 - 130
N-Nitrosodi-n-butylamine	2.86	3.333		ug/L		117	58 - 130
N-Nitrosodi-n-propylamine	2.86	3.082		ug/L		108	14 - 198

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 860-190341/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 190402				Prep Batch: 190341			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
N-Nitrosodiphenylamine	2.86	2.939		ug/L		103	60 - 130
N-Nitrosomethylethylamine	2.86	1.702		ug/L		60	45 - 130
Pentachlorobenzene	2.86	2.108		ug/L		74	47 - 130
Pentachloroethane	2.86	2.013		ug/L		70	20 - 120
Pentachlorophenol	2.86	2.332		ug/L		82	38 - 152
Phenanthrene	2.86	2.980		ug/L		104	65 - 120
Phenol	2.86	1.208	J	ug/L		42	17 - 120
Pyrene	2.86	3.142		ug/L		110	70 - 120
Pyridine	2.86	<1.44	U	ug/L		24	1 - 126
Total Cresols	5.71	5.423		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	2.86	2.029		ug/L		71	57 - 130
2,4,6-Trichlorophenol	2.86	2.279		ug/L		80	52 - 129
2-Methylphenol	2.86	2.959		ug/L		104	14 - 176
3 & 4 Methylphenol	2.86	2.464		ug/L		86	22 - 130
1,2,4,5-Tetrachlorobenzene	2.86	2.114		ug/L		74	52 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	89		43 - 130				
2-Fluorophenol (Surr)	68		19 - 120				
Nitrobenzene-d5 (Surr)	108		37 - 133				
Phenol-d5 (Surr)	46		8 - 124				
p-Terphenyl-d14 (Surr)	135	S1+	47 - 130				
2,4,6-Tribromophenol (Surr)	97		35 - 130				

Lab Sample ID: LCS 860-190341/4-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 190402				Prep Batch: 190341			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Demeton-O	0.857	1.903	*+	ug/L		222	50 - 150
Demeton-S	2.00	2.969		ug/L		148	50 - 150
Ethyl Parathion	2.86	9.973	*+	ug/L		349	25 - 173
Chlorpyrifos	2.86	5.186	*+	ug/L		182	34 - 130
Diazinon	2.86	7.210	*+	ug/L		252	37 - 130
Azinphos-methyl	2.86	7.094	*+	ug/L		248	70 - 200
Guthion	2.86	7.094	*+	ug/L		248	70 - 200
Malathion	2.86	5.610	*+	ug/L		196	50 - 150
Methyl parathion	5.71	10.64	*+	ug/L		186	26 - 159
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	100		43 - 130				
2-Fluorophenol (Surr)	59		19 - 120				
Nitrobenzene-d5 (Surr)	117		37 - 133				
Phenol-d5 (Surr)	46		8 - 124				
p-Terphenyl-d14 (Surr)	128		47 - 130				
2,4,6-Tribromophenol (Surr)	92		35 - 130				

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-190341/3-A  
Matrix: Water  
Analysis Batch: 190402

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190341

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	2.86	2.484		ug/L		87	60 - 132	0	29
Acenaphthylene	2.86	2.970		ug/L		104	54 - 126	1	30
Anthracene	2.86	3.603	*+	ug/L		126	43 - 120	1	30
Azobenzene	2.86	2.861		ug/L		100	63 - 130	4	30
Benzidine	2.86	0.8822	J	ug/L		31	11 - 110	3	30
Benzo[a]anthracene	2.86	3.338		ug/L		117	42 - 133	0	30
Benzo[a]pyrene	2.86	3.178		ug/L		111	32 - 148	1	30
Benzo[b]fluoranthene	2.86	3.299		ug/L		115	42 - 140	0	30
Benzo[g,h,i]perylene	2.86	2.830		ug/L		99	25 - 195	1	30
Benzo[k]fluoranthene	2.86	3.709		ug/L		130	25 - 146	1	30
Bis(2-chloroethoxy)methane	2.86	2.994		ug/L		105	49 - 165	4	30
Bis(2-chloroethyl)ether	2.86	2.585		ug/L		90	43 - 126	11	30
bis (2-chloroisopropyl) ether	2.86	2.017	I	ug/L		71	63 - 139	12	30
Bis(2-ethylhexyl) phthalate	2.86	4.764	*+	ug/L		167	29 - 137	1	30
4-Bromophenyl phenyl ether	2.86	2.872		ug/L		101	65 - 120	2	26
Butyl benzyl phthalate	2.86	5.034	*+	ug/L		176	70 - 130	1	30
4-Chloro-3-methylphenol	2.86	3.160		ug/L		111	41 - 128	4	30
2-Chloronaphthalene	2.86	2.201		ug/L		77	65 - 120	2	15
2-Chlorophenol	2.86	2.423		ug/L		85	36 - 120	10	30
4-Chlorophenyl phenyl ether	2.86	2.545		ug/L		89	38 - 145	3	30
Chrysene	2.86	2.942		ug/L		103	47 - 130	2	30
Dibenz(a,h)anthracene	2.86	2.998		ug/L		105	32 - 200	1	30
Dibenzofuran	2.86	2.654		ug/L		93	48 - 130	2	30
1,2-Dichlorobenzene	2.86	1.940		ug/L		68	32 - 130	8	30
1,3-Dichlorobenzene	2.86	1.878		ug/L		66	26 - 130	10	30
1,4-Dichlorobenzene	2.86	1.859		ug/L		65	28 - 130	9	30
3,3'-Dichlorobenzidine	2.86	3.661		ug/L		128	20 - 150	2	30
2,4-Dichlorophenol	2.86	2.655		ug/L		93	53 - 122	1	30
Diethyl phthalate	2.86	3.101		ug/L		109	62 - 120	0	30
2,4-Dimethylphenol	2.86	3.257		ug/L		114	42 - 120	1	30
Dimethyl phthalate	2.86	3.502	*+	ug/L		123	67 - 120	4	30
Di-n-butyl phthalate	2.86	3.301		ug/L		116	8 - 120	0	28
4,6-Dinitro-2-methylphenol	2.86	1.765		ug/L		62	53 - 130	3	30
2,4-Dinitrophenol	2.86	2.303	J	ug/L		81	26 - 173	11	30
2,4-Dinitrotoluene	2.86	2.860		ug/L		100	48 - 127	3	25
2,6-Dinitrotoluene	2.86	3.286		ug/L		115	68 - 137	1	29
Di-n-octyl phthalate	2.86	4.657	*+	ug/L		163	19 - 132	0	30
1,2-Diphenylhydrazine	2.86	3.106	I	ug/L		109	48 - 130	16	30
Fluoranthene	2.86	2.539		ug/L		89	43 - 121	2	30
Fluorene	2.86	2.562		ug/L		90	70 - 120	3	23
Hexachlorobenzene	2.86	3.299		ug/L		115	8 - 142	4	30
Hexachlorobutadiene	2.86	1.627		ug/L		57	38 - 120	3	30
Hexachlorocyclopentadiene	2.86	1.077		ug/L		38	10 - 130	7	30
Hexachloroethane	2.86	1.481	*-	ug/L		52	55 - 120	4	30
Indeno[1,2,3-cd]pyrene	2.86	3.021		ug/L		106	29 - 151	2	30
Isophorone	2.86	3.106		ug/L		109	47 - 180	1	30
Naphthalene	2.86	2.174		ug/L		76	36 - 120	2	30
Nitrobenzene	2.86	2.980		ug/L		104	54 - 130	8	30

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-190341/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 190402				Prep Batch: 190341						
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD	
	Added	Result	Qualifier				Limits	RPD	Limit	
2-Nitrophenol	2.86	3.353		ug/L		117	45 - 167	1	30	
4-Nitrophenol	2.86	0.5914		ug/L		21	13 - 129	3	30	
N-Nitrosodiethylamine	2.86	2.881		ug/L		101	54 - 130	7	30	
N-Nitrosodimethylamine	2.86	0.8513		ug/L		30	30 - 130	7	30	
N-Nitrosodi-n-butylamine	2.86	3.284		ug/L		115	58 - 130	1	30	
N-Nitrosodi-n-propylamine	2.86	2.768		ug/L		97	14 - 198	11	30	
N-Nitrosodiphenylamine	2.86	3.148		ug/L		110	60 - 130	7	30	
N-Nitrosomethylethylamine	2.86	1.589		ug/L		56	45 - 130	7	30	
Pentachlorobenzene	2.86	2.159		ug/L		76	47 - 130	2	30	
Pentachloroethane	2.86	1.875		ug/L		66	20 - 120	7	30	
Pentachlorophenol	2.86	2.426		ug/L		85	38 - 152	4	30	
Phenanthrene	2.86	2.944		ug/L		103	65 - 120	1	24	
Phenol	2.86	1.084	J	ug/L		38	17 - 120	11	30	
Pyrene	2.86	3.123		ug/L		109	70 - 120	1	30	
Pyridine	2.86	<1.44	U	ug/L		22	1 - 126	10	30	
Total Cresols	5.71	4.791		ug/L		84	70 - 130	12	30	
1,2,4-Trichlorobenzene	2.86	1.969		ug/L		69	57 - 130	3	30	
2,4,6-Trichlorophenol	2.86	2.240		ug/L		78	52 - 129	2	30	
2-Methylphenol	2.86	2.624		ug/L		92	14 - 176	12	30	
3 & 4 Methylphenol	2.86	2.167		ug/L		76	22 - 130	13	30	
1,2,4,5-Tetrachlorobenzene	2.86	2.179		ug/L		76	52 - 130	3	30	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	94		43 - 130
2-Fluorophenol (Surr)	61		19 - 120
Nitrobenzene-d5 (Surr)	107		37 - 133
Phenol-d5 (Surr)	41		8 - 124
p-Terphenyl-d14 (Surr)	136	S1+	47 - 130
2,4,6-Tribromophenol (Surr)	107		35 - 130

Lab Sample ID: LCSD 860-190341/5-A				Client Sample ID: Lab Control Sample Dup					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 190402				Prep Batch: 190341					
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	
	Added	Result	Qualifier				Limits	RPD	Limit
Demeton-O	0.857	1.881	*+	ug/L		219	50 - 150	1	30
Demeton-S	2.00	3.039	*+	ug/L		152	50 - 150	2	30
Ethyl Parathion	2.86	9.863	*+	ug/L		345	25 - 173	1	30
Chlorpyrifos	2.86	5.531	*+	ug/L		194	34 - 130	6	30
Diazinon	2.86	7.163	*+	ug/L		251	37 - 130	1	30
Azinphos-methyl	2.86	6.813	*+	ug/L		238	70 - 200	4	30
Guthion	2.86	6.813	*+	ug/L		238	70 - 200	4	30
Malathion	2.86	6.046	*+	ug/L		212	50 - 150	7	30
Methyl parathion	5.71	10.29	*+	ug/L		180	26 - 159	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl	100		43 - 130
2-Fluorophenol (Surr)	58		19 - 120

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## QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-190341/5-A  
Matrix: Water  
Analysis Batch: 190402

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190341

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	110		37 - 133
Phenol-d5 (Surr)	45		8 - 124
p-Terphenyl-d14 (Surr)	130		47 - 130
2,4,6-Tribromophenol (Surr)	96		35 - 130

### Method: D7065-11 - Determination of Nonylphenols

Lab Sample ID: MB 280-669678/1-A  
Matrix: Water  
Analysis Batch: 669765

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 669678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1140	U	5000	1140	ng/L		10/03/24 14:14	10/04/24 09:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-nonylphenol (Surr)	104		58 - 115	10/03/24 14:14	10/04/24 09:35	1
4-nonylphenol monoethoxylate (Surr)	121		54 - 139	10/03/24 14:14	10/04/24 09:35	1

Lab Sample ID: LCS 280-669678/2-A  
Matrix: Water  
Analysis Batch: 669765

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 669678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nonylphenol	51300	50750		ng/L		99	56 - 125
Nonylphenol diethoxylate	202000	232200		ng/L		115	54 - 128
Nonylphenol monoethoxylate	103000	103200		ng/L		100	57 - 125
Bisphenol-A	10100	8789		ng/L		87	52 - 125
4-tert-Octylphenol	10100	10460		ng/L		104	55 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-nonylphenol (Surr)	114		58 - 115
4-nonylphenol monoethoxylate (Surr)	129		54 - 139

Lab Sample ID: 280-197441-A-4-B MS  
Matrix: Water  
Analysis Batch: 669765

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 669678

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Nonylphenol	<1120	U	50300	46240		ng/L		92	56 - 125
Nonylphenol diethoxylate	<4490	U	198000	209200		ng/L		105	54 - 128
Nonylphenol monoethoxylate	<2010	U	101000	95070		ng/L		94	57 - 125
Bisphenol-A	<1010	U	9950	8716		ng/L		88	52 - 125
4-tert-Octylphenol	<275	U	9910	9716		ng/L		98	55 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
4-nonylphenol (Surr)	104		58 - 115

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: D7065-11 - Determination of Nonylphenols (Continued)

Lab Sample ID: 280-197441-A-4-B MS  
Matrix: Water  
Analysis Batch: 669765

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 669678

Surrogate	%Recovery	MS MS Qualifier	Limits
4-nonylphenol monoethoxylate (Surr)	116		54 - 139

Lab Sample ID: 280-197441-A-4-C MSD  
Matrix: Water  
Analysis Batch: 669765

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 669678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonylphenol	<1120	U	50700	48350		ng/L		95	56 - 125	4	22
Nonylphenol diethoxylate	<4490	U	200000	213000		ng/L		107	54 - 128	2	28
Nonylphenol monoethoxylate	<2010	U	102000	95560		ng/L		94	57 - 125	1	22
Bisphenol-A	<1010	U	10000	9335		ng/L		93	52 - 125	7	22
4-tert-Octylphenol	<275	U	9980	10200		ng/L		102	55 - 125	5	24

Surrogate	%Recovery	MSD MSD Qualifier	Limits
4-nonylphenol (Surr)	109		58 - 115
4-nonylphenol monoethoxylate (Surr)	120		54 - 139

## Method: 608.3 - Organochlorine Pesticides/PCBs in Water

Lab Sample ID: MB 860-190585/1-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190585

Analyte	MB MB Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0000158	U	0.0000500	0.0000158	mg/L		10/01/24 07:12	10/01/24 11:41	1
alpha-BHC	<0.0000159	U	0.0000500	0.0000159	mg/L		10/01/24 07:12	10/01/24 11:41	1
beta-BHC	<0.0000172	U	0.0000500	0.0000172	mg/L		10/01/24 07:12	10/01/24 11:41	1
Chlordane (technical)	<0.000195	U	0.00100	0.000195	mg/L		10/01/24 07:12	10/01/24 11:41	1
cis-Chlordane	<0.0000188	U	0.0000500	0.0000188	mg/L		10/01/24 07:12	10/01/24 11:41	1
4,4'-DDD	<0.0000179	U	0.0000500	0.0000179	mg/L		10/01/24 07:12	10/01/24 11:41	1
4,4'-DDE	<0.0000161	U	0.0000500	0.0000161	mg/L		10/01/24 07:12	10/01/24 11:41	1
4,4'-DDT	<0.0000180	U	0.0000500	0.0000180	mg/L		10/01/24 07:12	10/01/24 11:41	1
delta-BHC	<0.00000874	U	0.0000500	0.0000087	mg/L		10/01/24 07:12	10/01/24 11:41	1
Dicofol	<0.0000250	U	0.0000250	0.0000250	mg/L		10/01/24 07:12	10/01/24 11:41	1
Dieldrin	<0.0000173	U	0.0000500	0.0000173	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endosulfan I	<0.0000186	U	0.0000500	0.0000186	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endosulfan II	<0.0000177	U	0.0000500	0.0000177	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endosulfan sulfate	<0.0000152	U	0.0000500	0.0000152	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endrin	<0.0000166	U	0.0000500	0.0000166	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endrin aldehyde	<0.0000167	U	0.0000500	0.0000167	mg/L		10/01/24 07:12	10/01/24 11:41	1
Endrin ketone	<0.0000171	U	0.0000500	0.0000171	mg/L		10/01/24 07:12	10/01/24 11:41	1
gamma-BHC (Lindane)	<0.0000170	U	0.0000500	0.0000170	mg/L		10/01/24 07:12	10/01/24 11:41	1
Heptachlor	<0.0000277	U	0.0000500	0.0000277	mg/L		10/01/24 07:12	10/01/24 11:41	1
Heptachlor epoxide	<0.0000182	U	0.0000500	0.0000182	mg/L		10/01/24 07:12	10/01/24 11:41	1
Methoxychlor	<0.0000186	U	0.0000500	0.0000186	mg/L		10/01/24 07:12	10/01/24 11:41	1
Mirex	<0.0000250	U	0.0000250	0.0000250	mg/L		10/01/24 07:12	10/01/24 11:41	1

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: MB 860-190585/1-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190585

Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000521	U	0.000250	0.0000521	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1221	<0.0000521	U	0.000500	0.0000521	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1232	<0.0000521	U	0.000500	0.0000521	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1242	<0.0000521	U	0.000250	0.0000521	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1248	<0.0000521	U	0.000500	0.0000521	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1254	<0.0000655	U	0.000500	0.0000655	mg/L		10/01/24 07:12	10/01/24 11:41	1
PCB-1260	<0.0000655	U	0.000250	0.0000655	mg/L		10/01/24 07:12	10/01/24 11:41	1
Polychlorinated biphenyls, Total	NC		0.000500	0.000250	mg/L		10/01/24 07:12	10/01/24 11:41	1
Toxaphene	<0.000337	U	0.00100	0.000337	mg/L		10/01/24 07:12	10/01/24 11:41	1
trans-Chlordane	<0.0000188	U	0.0000500	0.0000188	mg/L		10/01/24 07:12	10/01/24 11:41	1
Surrogate	%Recovery	MB MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	121	S1+	45 - 115				10/01/24 07:12	10/01/24 11:41	1
Tetrachloro-m-xylene	93		41 - 110				10/01/24 07:12	10/01/24 11:41	1

Lab Sample ID: LCS 860-190585/2-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 190585

Analyte	Spike Added	LCS LCS Result Qualifier	Unit	D	%Rec	Limits
Aldrin	0.00125	0.001255	mg/L		100	52 - 110
alpha-BHC	0.00125	0.001168	mg/L		93	58 - 105
beta-BHC	0.00125	0.001198	mg/L		96	52 - 98
cis-Chlordane	0.00125	0.001203	mg/L		96	53 - 106
4,4'-DDD	0.00125	0.001251 p	mg/L		100	60 - 111
4,4'-DDE	0.00125	0.001192	mg/L		95	47 - 97
4,4'-DDT	0.00125	0.001481 *+	mg/L		118	53 - 96
delta-BHC	0.00125	0.0004995	mg/L		40	30 - 120
Dieldrin	0.00125	0.001162	mg/L		93	57 - 107
Endosulfan I	0.00125	0.001206	mg/L		96	56 - 110
Endosulfan II	0.00125	0.001380 *+	mg/L		110	58 - 108
Endosulfan sulfate	0.00125	0.001180	mg/L		94	57 - 101
Endrin	0.00125	0.001499 *+	mg/L		120	55 - 102
Endrin aldehyde	0.00125	0.001496 *+	mg/L		120	48 - 96
Endrin ketone	0.00125	0.001369 *+	mg/L		110	59 - 107
gamma-BHC (Lindane)	0.00125	0.001284	mg/L		103	59 - 107
Heptachlor	0.00125	0.001412 *+	mg/L		113	55 - 106
Heptachlor epoxide	0.00125	0.001244	mg/L		99	56 - 109
Methoxychlor	0.00125	0.001249 p	mg/L		100	53 - 102
trans-Chlordane	0.00125	0.001187	mg/L		95	52 - 103
Surrogate	%Recovery	LCS LCS Qualifier	Limits			
DCB Decachlorobiphenyl (Surr)	84		45 - 115			
Tetrachloro-m-xylene	85		41 - 110			

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCS 860-190585/4-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 190585

		Spike	LCS	LCS	%Rec			
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
PCB-1016		0.00500	0.005892		mg/L		118	50 - 140
PCB-1260		0.00500	0.006049		mg/L		121	37 - 130
		LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits					
DCB Decachlorobiphenyl (Surr)	91		45 - 115					
Tetrachloro-m-xylene	89		41 - 110					

Lab Sample ID: LCSD 860-190585/3-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190585

	Spike	LCSD	LCSD			%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aldrin	0.00125	0.001257		mg/L		101	52 - 110	0	30
alpha-BHC	0.00125	0.001169		mg/L		94	58 - 105	0	30
beta-BHC	0.00125	0.001202		mg/L		96	52 - 98	0	30
cis-Chlordane	0.00125	0.001211		mg/L		97	53 - 106	1	30
4,4'-DDD	0.00125	0.001257	p	mg/L		101	60 - 111	0	30
4,4'-DDE	0.00125	0.001193		mg/L		95	47 - 97	0	30
4,4'-DDT	0.00125	0.001479	*+	mg/L		118	53 - 96	0	30
delta-BHC	0.00125	0.0004988		mg/L		40	30 - 120	0	30
Dieldrin	0.00125	0.001179		mg/L		94	57 - 107	1	30
Endosulfan I	0.00125	0.001225		mg/L		98	56 - 110	2	30
Endosulfan II	0.00125	0.001385	*+	mg/L		111	58 - 108	0	30
Endosulfan sulfate	0.00125	0.001195		mg/L		96	57 - 101	1	30
Endrin	0.00125	0.001509	*+	mg/L		121	55 - 102	1	30
Endrin aldehyde	0.00125	0.001500	*+	mg/L		120	48 - 96	0	30
Endrin ketone	0.00125	0.001370	*+	mg/L		110	59 - 107	0	30
gamma-BHC (Lindane)	0.00125	0.001283		mg/L		103	59 - 107	0	30
Heptachlor	0.00125	0.001411	*+	mg/L		113	55 - 106	0	30
Heptachlor epoxide	0.00125	0.001253		mg/L		100	56 - 109	1	30
Methoxychlor	0.00125	0.001242	p	mg/L		99	53 - 102	1	30
trans-Chlordane	0.00125	0.001194		mg/L		95	52 - 103	1	30
LCSD LCSD									
Surrogate	%Recovery	Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	84		45 - 115						
Tetrachloro-m-xylene	85		41 - 110						

Lab Sample ID: LCSD 860-190585/5-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190585

			Spike	LCSD	LCSD				%Rec	RPD	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
PCB-1016			0.00500	0.005653		mg/L		113	50 - 140	4	30
PCB-1260			0.00500	0.005717		mg/L		114	37 - 130	6	30
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
DCB Decachlorobiphenyl (Surr)	86		45 - 115								

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# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 608.3 - Organochlorine Pesticides/PCBs in Water (Continued)

Lab Sample ID: LCSD 860-190585/5-A  
Matrix: Water  
Analysis Batch: 190632

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190585

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
Tetrachloro-m-xylene	85		41 - 110

## Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-190646/1-A  
Matrix: Water  
Analysis Batch: 190636

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 190646

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier								
2,4-D	<0.0000539	U	0.000200	0.0000539	mg/L		10/01/24 09:30	10/01/24 13:39	1
2,4-DB	<0.0000493	U	0.000200	0.0000493	mg/L		10/01/24 09:30	10/01/24 13:39	1
Silvex (2,4,5-TP)	<0.0000422	U	0.000200	0.0000422	mg/L		10/01/24 09:30	10/01/24 13:39	1
2,4,5-T	<0.0000393	U	0.000200	0.0000393	mg/L		10/01/24 09:30	10/01/24 13:39	1
Dalapon	<0.0000476	U	0.000200	0.0000476	mg/L		10/01/24 09:30	10/01/24 13:39	1
Dicamba	<0.0000423	U	0.000200	0.0000423	mg/L		10/01/24 09:30	10/01/24 13:39	1
Dichlorprop	<0.0000527	U	0.000200	0.0000527	mg/L		10/01/24 09:30	10/01/24 13:39	1
Dinoseb	<0.0000343	U	0.000200	0.0000343	mg/L		10/01/24 09:30	10/01/24 13:39	1
MCPA	<0.00526	U	0.0200	0.00526	mg/L		10/01/24 09:30	10/01/24 13:39	1
MCPP	<0.00996	U	0.0200	0.00996	mg/L		10/01/24 09:30	10/01/24 13:39	1
Pentachlorophenol	<0.0000443	U	0.000200	0.0000443	mg/L		10/01/24 09:30	10/01/24 13:39	1
Hexachlorophene	<0.000808	U	0.00500	0.000808	mg/L		10/01/24 09:30	10/01/24 13:39	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
2,4-Dichlorophenylacetic acid	75		45 - 150				10/01/24 09:30	10/01/24 13:39	1

Lab Sample ID: LCS 860-190646/2-A  
Matrix: Water  
Analysis Batch: 190636

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 190646

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Added	Result	Qualifier					Limits
2,4-D	0.00200	0.001639		mg/L		82	55 - 145
2,4-DB	0.00200	0.001722		mg/L		86	55 - 150
Silvex (2,4,5-TP)	0.00200	0.001735		mg/L		87	55 - 140
2,4,5-T	0.00200	0.001454		mg/L		73	60 - 130
Dalapon	0.00200	0.001551		mg/L		78	50 - 150
Dicamba	0.00200	0.001875		mg/L		94	55 - 135
Dichlorprop	0.00200	0.001472		mg/L		74	55 - 140
Dinoseb	0.00200	0.0007646		mg/L		38	20 - 100
MCPA	0.200	0.2025		mg/L		101	55 - 145
MCPP	0.200	0.1679		mg/L		84	65 - 155
Pentachlorophenol	0.00200	0.001579		mg/L		79	50 - 135
Surrogate	LCS	LCS	Limits				
%Recovery	Qualifier						
2,4-Dichlorophenylacetic acid	89		45 - 150				

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## QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-190646/4-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 190636				Prep Batch: 190646			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorophene	0.00800	0.006978		mg/L		87	60 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid	73		45 - 150				

Lab Sample ID: LCSD 860-190646/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 190636				Prep Batch: 190646						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	Limit	
							Limits	RPD		
2,4-D	0.00200	0.001551		mg/L		78	55 - 145	5	25	
2,4-DB	0.00200	0.001852		mg/L		93	55 - 150	7	25	
Silvex (2,4,5-TP)	0.00200	0.001819		mg/L		91	55 - 140	5	25	
2,4,5-T	0.00200	0.001530		mg/L		76	60 - 130	5	25	
Dalapon	0.00200	0.001580		mg/L		79	50 - 150	2	25	
Dicamba	0.00200	0.001935		mg/L		97	55 - 135	3	25	
Dichlorprop	0.00200	0.001454		mg/L		73	55 - 140	1	25	
Dinoseb	0.00200	0.0007876		mg/L		39	20 - 100	3	25	
MCPA	0.200	0.1827		mg/L		91	55 - 145	10	25	
MCPP	0.200	0.1564		mg/L		78	65 - 155	7	25	
Pentachlorophenol	0.00200	0.001591		mg/L		80	50 - 135	1	25	
LCSD LCSD										
Surrogate	%Recovery	Qualifier	Limits							
2,4-Dichlorophenylacetic acid	93		45 - 150							

Lab Sample ID: LCSD 860-190646/5-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 190636						Prep Batch: 190646					
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorophene			0.00800	0.006930		mg/L		87	60 - 135	1	25
Surrogate			LCSD %Recovery	LCSD Qualifier	Limits						
2,4-Dichlorophenylacetic acid			81		45 - 150						

### Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-190582/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 193497						Prep Batch: 190582			
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		10/01/24 05:24	10/15/24 01:22	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		10/01/24 05:24	10/15/24 01:22	1

Eurofins Houston

# QC Sample Results

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

## Method: 632 - Carbamate and Urea Pesticides (HPLC) (Continued)

Lab Sample ID: LCS 860-190582/2-A  
Matrix: Water  
Analysis Batch: 193497

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 190582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	99.24		ug/L		99	70 - 130
Diuron	2.00	1.980		ug/L		99	70 - 130

Lab Sample ID: LCSD 860-190582/3-A  
Matrix: Water  
Analysis Batch: 193497

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 190582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	99.33		ug/L		99	70 - 130	0	20
Diuron	2.00	2.051		ug/L		103	70 - 130	4	20

## Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 400-686919/3-A  
Matrix: Water  
Analysis Batch: 687011

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 686919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.200	U	0.500	0.200	ng/L		10/04/24 16:00	10/07/24 10:24	1

Lab Sample ID: LCS 400-686919/4-A  
Matrix: Water  
Analysis Batch: 687011

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 686919

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	4.839		ng/L		97	79 - 121

Lab Sample ID: LCSD 400-686919/5-A  
Matrix: Water  
Analysis Batch: 687011

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 686919

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	5.00	4.896		ng/L		98	79 - 121	1	20

Lab Sample ID: 752-24719-A-1-B MS  
Matrix: Water  
Analysis Batch: 687011

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 686919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.42	J	25.0	22.67		ng/L		81	71 - 125

Lab Sample ID: 752-24719-A-1-C MSD  
Matrix: Water  
Analysis Batch: 687011

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 686919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	2.42	J	25.0	22.22		ng/L		79	71 - 125	2	24



## QC Association Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### GC/MS Semi VOA

#### Prep Batch: 190341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	3511	
MB 860-190341/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-190341/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-190341/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-190341/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-190341/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

#### Analysis Batch: 190402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	625.1	190341
MB 860-190341/1-A	Method Blank	Total/NA	Water	625.1	190341
LCS 860-190341/2-A	Lab Control Sample	Total/NA	Water	625.1	190341
LCS 860-190341/4-A	Lab Control Sample	Total/NA	Water	625.1	190341
LCSD 860-190341/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	190341
LCSD 860-190341/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	190341

#### Prep Batch: 669678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	D7065-11	
MB 280-669678/1-A	Method Blank	Total/NA	Water	D7065-11	
LCS 280-669678/2-A	Lab Control Sample	Total/NA	Water	D7065-11	
280-197441-A-4-B MS	Matrix Spike	Total/NA	Water	D7065-11	
280-197441-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	D7065-11	

#### Analysis Batch: 669765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	D7065-11	669678
MB 280-669678/1-A	Method Blank	Total/NA	Water	D7065-11	669678
LCS 280-669678/2-A	Lab Control Sample	Total/NA	Water	D7065-11	669678
280-197441-A-4-B MS	Matrix Spike	Total/NA	Water	D7065-11	669678
280-197441-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Water	D7065-11	669678

### GC Semi VOA

#### Prep Batch: 190585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	3511	
MB 860-190585/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-190585/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-190585/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-190585/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-190585/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

#### Analysis Batch: 190632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	608.3	190585
MB 860-190585/1-A	Method Blank	Total/NA	Water	608.3	190585
LCS 860-190585/2-A	Lab Control Sample	Total/NA	Water	608.3	190585
LCS 860-190585/4-A	Lab Control Sample	Total/NA	Water	608.3	190585
LCSD 860-190585/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	190585
LCSD 860-190585/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	190585

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## QC Association Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### GC Semi VOA

#### Analysis Batch: 190636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	615	190646
MB 860-190646/1-A	Method Blank	Total/NA	Water	615	190646
LCS 860-190646/2-A	Lab Control Sample	Total/NA	Water	615	190646
LCS 860-190646/4-A	Lab Control Sample	Total/NA	Water	615	190646
LCSD 860-190646/3-A	Lab Control Sample Dup	Total/NA	Water	615	190646
LCSD 860-190646/5-A	Lab Control Sample Dup	Total/NA	Water	615	190646

#### Prep Batch: 190646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	3511	
MB 860-190646/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-190646/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-190646/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-190646/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-190646/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

### HPLC/IC

#### Prep Batch: 190582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	CWA_Prep	
MB 860-190582/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-190582/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-190582/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

#### Analysis Batch: 193497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	632	190582
MB 860-190582/1-A	Method Blank	Total/NA	Water	632	190582
LCS 860-190582/2-A	Lab Control Sample	Total/NA	Water	632	190582
LCSD 860-190582/3-A	Lab Control Sample Dup	Total/NA	Water	632	190582

### Metals

#### Prep Batch: 686919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	1631E	
860-83578-2	LL Mercury Blank	Total/NA	Water	1631E	
MB 400-686919/3-A	Method Blank	Total/NA	Water	1631E	
LCS 400-686919/4-A	Lab Control Sample	Total/NA	Water	1631E	
LCSD 400-686919/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	
752-24719-A-1-B MS	Matrix Spike	Total/NA	Water	1631E	
752-24719-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

#### Analysis Batch: 687011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-83578-1	Galveston Terramar Long Permit Renewal Effluer	Total/NA	Water	1631E	686919
860-83578-2	LL Mercury Blank	Total/NA	Water	1631E	686919
MB 400-686919/3-A	Method Blank	Total/NA	Water	1631E	686919
LCS 400-686919/4-A	Lab Control Sample	Total/NA	Water	1631E	686919
LCSD 400-686919/5-A	Lab Control Sample Dup	Total/NA	Water	1631E	686919
752-24719-A-1-B MS	Matrix Spike	Total/NA	Water	1631E	686919

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Job ID: 860-83578-1  
SDG: 091924B

**Analysis Batch: 687011 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-24719-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	686919

## Lab Chronicle

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

**Client Sample ID: Galveston Terramar Long Permit Renewal**

**Lab Sample ID: 860-83578-1**

### Effluent

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			70.7 mL	4 mL	190341	09/30/24 07:53	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	190402	09/30/24 21:02	PXS	EET HOU
Total/NA	Prep	D7065-11			1004.3 mL	1 mL	669678	10/03/24 14:14	WPO	EET DEN
Total/NA	Analysis	D7065-11		1	200 uL	200 uL	669765	10/04/24 10:37	MAB	EET DEN
Total/NA	Prep	3511			49.6 mL	5 mL	190585	10/01/24 07:20	DR	EET HOU
Total/NA	Analysis	608.3		1			190632	10/01/24 17:06	WP	EET HOU
Total/NA	Prep	3511			49.8 mL	4 mL	190646	10/01/24 09:30	BH	EET HOU
Total/NA	Analysis	615		1			190636	10/01/24 16:47	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	190582	10/01/24 05:24	DR	EET HOU
Total/NA	Analysis	632		1			193497	10/15/24 03:01	YG	EET HOU
Total/NA	Prep	1631E			40 mL	40 mL	686919	10/04/24 15:00	VLC	EET PEN
Completed:								10/07/24 09:15		
Total/NA	Analysis	1631E		1			687011	10/07/24 12:59	VLC	EET PEN

**Client Sample ID: LL Mercury Blank**

**Lab Sample ID: 860-83578-2**

Date Collected: 09/26/24 00:00

Matrix: Water

Date Received: 09/27/24 10:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			40 mL	40 mL	686919	10/04/24 15:00	VLC	EET PEN
Completed:								10/07/24 09:15		
Total/NA	Analysis	1631E		1			687011	10/07/24 13:07	VLC	EET PEN

\* This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

## Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

### Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	10-08-24
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	10-14-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (VWV)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

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## Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

### Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-25
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-25
California	State	2510	06-30-25
Florida	NELAP	E81010	06-30-25
Georgia	State	E81010(FL)	06-30-25
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-25
Louisiana (All)	NELAP	30976	06-30-25
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	10-09-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-25
Tennessee	State	TN02907	06-30-25
Texas	NELAP	T104704286	09-30-25
US Fish & Wildlife	US Federal Programs	A22340	06-30-25
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

## Method Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
SDG: 091924B

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC-MS/MS)	EPA	EET HOU
D7065-11	Determination of Nonylphenols	ASTM	EET DEN
608.3	Organochlorine Pesticides/PCBs in Water	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
1631E	Mercury, Low Level (CVAFS)	EPA	EET PEN
1631E	Preparation, Mercury, Low Level	EPA	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
D7065-11	Liquid-Liquid Extraction (Continuous)	ASTM	EET DEN

### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

## Sample Summary

Client: Eastex Environmental Laboratory Inc.  
Project/Site: TERRAMAR

Job ID: 860-83578-1  
Ss G:8 9. 924B

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-83578-1	Galveston Terramar Long Permit Renewal Effluent	Water	09/26/24 00:00	09/27/24 10:35
860-83578-2	LL Mercury Blank	Water	09/26/24 00:00	09/27/24 10:35

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## SUBCONTRACT ORDER

### 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:

#### Eurofins Xenco LLC

4147 Greenbriar Dr.  
Stafford, TX 77477

Phone 713-690-4444  
Fax 713-690-5646

*[Signature]*  
9/26/24

PO 092724A

Requested Turnaround 3 Days

Sample ID: Galveston Terramar Long Permit Renewal Effluent  
09/26/2024 00:00

Sample No: 4391431-01 Water Sampled:

Semi-Volatiles-Permit (625.1)  
PCB-Permit 608.3  
Organophosphorus Pesticides EPA 1657 SUBCONT  
Nonylphenol  
Mercury LL Blank  
Mercury LL  
Carbaryl/Diuron EPA 632 SUBCONTRACT  
Acidic Herbicides-Permit

Containers Supplied:

12/17  
*ju*

Special Instructions. SEE LIST



860-83578 Chain of Custody

☐ See Attached

Received Iced ☒ Y/N

Temp 2.8°

Galveston Terramar WWTP

*B. Miller*  
Released By

9/27/24 10 35  
Date & Time

Received By

*lu*

9/27/24 10:35  
Date & Time

# 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. [Click to enter text.](#)

*For Terramar PO*

**Table 4.0(1) - Toxics Analysis**

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



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

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

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

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**Table 4.0(2)C – Acid Compounds**

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

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**Table 4.0(2)D – Base/Neutral Compounds**

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

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

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**Table 4.0(2)E - Pesticides**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0 01
alpha BHC (Hexachlorocyclohexane)				0 05
beta BHC (Hexachlorocyclohexane)				0 05
gamma BHC (Hexachlorocyclohexane)				0 05
delta BHC (Hexachlorocyclohexane)				0 05
Chlordane				0 2
4,4 DDT				0 02
4,4 DDE				0 1
4,4, DDD				0 1
Dieldrin				0 02
Endosulfan I (alpha)				0 01
Endosulfan II (beta)				0 02
Endosulfan Sulfate				0 1
Endrin				0 02
Endrin Aldehyde				0 1
Heptachlor				0 01
Heptachlor Epoxide				0 01
PCB 1242				0 2
PCB 1254				0 2
PCB 1221				0 2
PCB 1232				0 2
PCB 1248				0 2
PCB 1260				0 2
PCB 1016				0 2
Toxaphene				0 3

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



# SUBCONTRACT ORDER



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:

**Eurofins Xenco LLC**  
4147 Greenbriar Dr  
Stafford, TX 77477  
Phone: 713-690-4444  
Fax: 713-690-5646

Requested Turnaround 3 Days

PO 092724A

Sample ID: Galveston Terramar Long Permit Renewal Effluent  
Sample No: 4391431-01 Water Sampled: 09/26/2024 00:00

Semi-Volatiles-Permit (625.1)  
PCB-Permit 608.3  
Organophosphorus Pesticides EPA 1657 SUBCONT  
Nonylphenol  
Mercury LL Blank  
Mercury LL  
Carbaryl/Diuron EPA 632 SUBCONTRACT  
Acidic Herbicides-Permit

Containers Supplied:

Special Instructions EXTRA Hg LL VOLUME



CF-01 12 Hwtg

Galveston Terramar WWTP

☐ See Attached

Received Iced ☒ Y/N

Temp 43°

Date & Time 10/24/1109

Released By

Received By

Date & Time

10/21/24 1105

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Ver: 05/06/2024



## Chain of Custody Record

[illegible]

ORIGIN ID:SGRA  
ADMINISTRATIVE OFFICES  
XENCO HOUSTON  
4145 GREENBRIAR DR  
STAFFORD, TX 77477  
UNITED STATES US

SHIP DATE: 02OCT24  
ACTWGT: 10.00 LB  
CAD: 110188707/INET4760

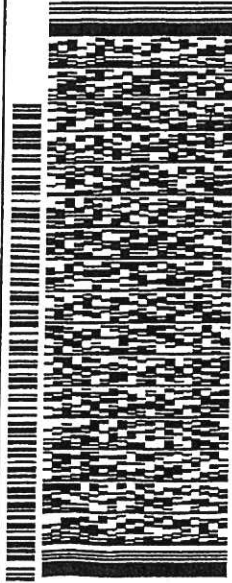
BILL SENDER

TO PENSACOLA ENVIRON.  
TESTAMERICA - PENSACOLA  
3355 MCLEMORE DRIVE

PENSACOLA FL 32514

REF: (281) 240-4200

PC: INV: DEPT:



FedEx  
Express



THU - 03 OCT 10:30A

PRIORITY OVERNIGHT

TRK# 7789 7343 6064

0201

32514

FL-US

XS PNSA



59CJ2/B264/06C4

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After printing this label:

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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](http://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 Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-83578-1

SDG Number: 091924B

Login Number: 83578

List Number: 1

Creator: Torrez, Lisandra

List Source: Eurofins Houston

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

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## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-83578-1

SDG Number: 091924B

Login Number: 83578

List Number: 2

Creator: Rystrom, Joshua R

List Source: Eurofins Denver

List Creation: 09/28/24 12:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-83578-1

SDG Number: 091924B

Login Number: 83578

List Number: 3

Creator: Roberts, Darrien

List Source: Eurofins Pensacola

List Creation: 10/04/24 10:44 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-8:153-1

SDG Number: PO 082324F

Login Number: 81153

List Number: 2

Creator: Beck, Brent

List Source: Eurofins Orlando

List Creation: 08/27/24 09:55 AM

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





# EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 • Coldspring, TX 77331  
(936) 653-3249 • (800) 525-0508  
www.eastexlabs.com

White Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy

## REPORT TO:

INVOICE TO:

Company: <u>Pure</u>		Remarks:	
Address: <u>Uadine</u>			
Attn: <u>J</u>			
Phone#: <u></u>			
Email: <u></u>			
P.O. #: <u></u>			
Sampler's Name (print): <u>Calab Harrison</u>			
Sampler's Signature: <u>Calab Harrison</u>			
Project Name: <u>Spring Creek Pilot Study</u>			
Work Order ID	Sample ID	Date	Time
0491	Raw	8/21/24	1730 DW
0491	Raw	8/21/24	1730 DW
0492	Sp1	8/21/24	1735 DW
0492	Sp1	8/21/24	1735 DW
0490	Backwash	8/21/24	1635 DW
0490	Backwash	8/21/24	1645 DW
0493	Sp2	8/21/24	1740 DW
0493	Sp2	8/21/24	1740 DW
0493	Sp2	8/21/24	1740 DW
0493	Sp2	8/21/24	1740 DW
0493	Sp2	8/21/24	1740 DW
Relinquished By:			

Relinquished By:	Received By:	Date	Time
Calab Harrison		8/21/24	1840
LAB USE ONLY	Sample Condition Acceptable: YES / NO	Date	Time
Alternate Check in:	YES / NO	8-21-24	1932



26 September 2024

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

RE: Galveston Terramar Long Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 09/26/24 14:06, with Lab ID Number 4391453. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mark Bourgeois  
Special Projects Manager



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

### LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Long Permit Renewal  
Sample Matrix: Water  
Client Matrix: Water

Sample Date and Time: 09/25/2024 00:00

Collector:  
Sample Type: Composite  
Print Date: 9/26/2024

#### Effluent 4391453-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
1,1,1-Trichloroethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,1,2,2-Tetrachloroethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,1,2-Trichloroethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,1-Dichloroethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,1-Dichloroethene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,2-Dibromoethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,2-Dichloroethane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,2-Dichloropropane	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
2-Chloroethyl vinyl ether	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Acrolein	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Acrylonitrile	<50.0	50.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Benzene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Bromodichloromethane	24.1	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Bromoform	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Carbon Tetrachloride	<2.00	2.00	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Chlorobenzene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Chloroethane	<50.0	50.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Chloroform	11.1	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Dibromochloromethane (Chlorodibromomethane)	36.1	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Cis-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Ethylbenzene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Methyl Bromide	<50.0	50.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Methyl Chloride	<50.0	50.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Methyl Ethyl Ketone	<50.0	50.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Toluene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
trans-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Trans-1,3-Dichloropropene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Trichloroethene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Total Trihalomethanes	78.5	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	

Eastex Environmental Laboratory - Coldspring

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

Project: Galveston Terramar Long Permit Renewal  
Sample Matrix: Water  
Client Matrix: Water

Sample Date and Time: 09/25/2024 00:00

Collector:

Sample Type: Composite

Print Date: 9/26/2024

**Effluent**  
**4391453-01 (Water)**

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
<b>Eastex Environmental Laboratory - Coldspring</b>								
Cis-1,2-Dichloroethene	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Vinyl Chloride	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
1,3-Dichloropropene	<10.0	10.0	ug/L	N	B413625	09/26/2024 14:18	EPA 624.1	
Methylene Chloride (Dichloromethane)	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Tetrachloroethene (Tetrachloroethylene)	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Acetone	<10.0	10.0	ug/L	A	B413625	09/26/2024 14:18	EPA 624.1	
Surrogate: 1,2-Dichloroethane-d4		81.5 %	70-130		B413625	09/26/2024 14:18	EPA 624.1	
Surrogate: 4-Bromofluorobenzene		92.4 %	70-130		B413625	09/26/2024 14:18	EPA 624.1	
Surrogate: Dibromofluoromethane		95.7 %	70-130		B413625	09/26/2024 14:18	EPA 624.1	
Surrogate: Toluene-d8		119 %	70-130		B413625	09/26/2024 14:18	EPA 624.1	



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Galveston TX, 77553

**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
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**Batch B4I3625 - EPA 5030C**

**Blank (B4I3625-BLK1)**

Prepared & Analyzed: 9/26/2024 10:25:00AM

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							
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	15.7		ug/L	20.0		78.4	70-130			
Surrogate: 4-Bromofluorobenzene	16.2		ug/L	20.0		80.8	70-130			

Eastex Environmental Laboratory - Coldspring

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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
<b>Batch B413625 - EPA 5030C</b>										
<b>Blank (B413625-BLK1)</b>				<b>Prepared &amp; Analyzed: 9/26/2024 10:25:00AM</b>						
Surrogate: Dibromofluoromethane	16.1		ug/L	20.0		80.7	70-130			
Surrogate: Toluene-d8	18.9		ug/L	20.0		94.6	70-130			
<b>LCS (B413625-BS1)</b>				<b>Prepared &amp; Analyzed: 9/26/2024 9:20:00AM</b>						
1,1,1-Trichloroethane	20.9	10.0	ug/L	20.0		105	70-130			
1,1,2,2-Tetrachloroethane	18.2	10.0	ug/L	20.0		91.1	60-140			
1,1,2-Trichloroethane	19.4	10.0	ug/L	20.0		97.1	70-130			
1,1-Dichloroethane	20.2	10.0	ug/L	20.0		101	70-130			
1,1-Dichloroethene	22.7	10.0	ug/L	20.0		114	50-150			
1,2-Dibromoethane	20.9	10.0	ug/L	20.0		104	70-130			
1,2-Dichloroethane	19.3	10.0	ug/L	20.0		96.7	70-130			
1,2-Dichloropropene	19.5	10.0	ug/L	20.0		97.6	35-165			
2-Chloroethyl vinyl ether	52.5	10.0	ug/L	100		52.5	0-225			
Acrolein	176	10.0	ug/L	200		88.2	60-140			
Acrylonitrile	18.5	50.0	ug/L	20.0		92.3	60-140			
Benzene	20.2	10.0	ug/L	20.0		101	65-135			
Bromodichloromethane	19.3	10.0	ug/L	20.0		96.3	65-135			
Bromoform	18.2	10.0	ug/L	20.0		91.2	70-130			
Carbon Tetrachloride	20.7	2.00	ug/L	20.0		103	70-130			
Chlorobenzene	20.2	10.0	ug/L	20.0		101	65-135			
Chloroethane	22.3	50.0	ug/L	20.0		112	40-160			
Chloroform	20.3	10.0	ug/L	20.0		101	70-135			
Dibromochloromethane (Chlorodibromomethane)	19.7	10.0	ug/L	20.0		98.4	70-135			
Cis-1,3-Dichloropropene	19.3	10.0	ug/L	20.0		96.7	25-175			
Ethylbenzene	21.1	10.0	ug/L	20.0		106	60-140			
Methyl Bromide	19.1	50.0	ug/L	20.0		95.6	70-130			
Methyl Chloride	20.1	50.0	ug/L	20.0		101	0-221			
Methyl Ethyl Ketone	92.2	50.0	ug/L	100		92.2	70-130			
Toluene	20.1	10.0	ug/L	20.0		100	70-130			
trans-1,2-Dichloroethene	20.8	10.0	ug/L	20.0		104	70-130			
Trans-1,3-Dichloropropene	19.5	10.0	ug/L	20.0		97.7	50-150			
Trichloroethene	19.7	10.0	ug/L	20.0		98.4	65-135			
Cis-1,2-Dichloroethene	19.4	10.0	ug/L	20.0		97.1	63-137			
Vinyl Chloride	19.8	10.0	ug/L	20.0		98.8	50-150			
Methylene Chloride (Dichloromethane)	19.7	10.0	ug/L	20.0		98.5	60-140			
Tetrachloroethene (Tetrachloroethylene)	19.8	10.0	ug/L	20.0		98.9	70-130			
Acetone	92.2	10.0	ug/L	100		92.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	18.7		ug/L	20.0		93.3	70-130			

Eastex Environmental Laboratory - Coldspring

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 Galveston TX, 77553

**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
<b>Batch B413625 - EPA 5030C</b>										
<b>LCS (B413625-BS1)</b>				<b>Prepared &amp; Analyzed: 9/26/2024 9:20:00AM</b>						
Surrogate: 4-Bromofluorobenzene	19.2		ug/L	20.0		96.0	70-130			
Surrogate: Dibromofluoromethane	19.0		ug/L	20.0		95.0	70-130			
Surrogate: Toluene-d8	19.7		ug/L	20.0		98.7	70-130			
<b>Matrix Spike (B413625-MS1)</b>				<b>Source: 4391453-01 Prepared &amp; Analyzed: 9/26/2024 2:53:00PM</b>						
1,1,1-Trichloroethane	21.4	10.0	ug/L	20.0	ND	107	52-162			
1,1,2,2-Tetrachloroethane	17.3	10.0	ug/L	20.0	ND	86.4	46-157			
1,1,2-Trichloroethane	18.7	10.0	ug/L	20.0	ND	93.4	52-150			
1,1-Dichloroethane	22.0	10.0	ug/L	20.0	ND	110	59-155			
1,1-Dichloroethene	23.2	10.0	ug/L	20.0	ND	116	0-234			
1,2-Dibromoethane	21.3	10.0	ug/L	20.0	ND	107	70-130			
1,2-Dichloroethane	21.1	10.0	ug/L	20.0	ND	106	49-155			
1,2-Dichloropropane	21.3	10.0	ug/L	20.0	ND	107	0-210			
2-Chloroethyl vinyl ether	53.0	10.0	ug/L	100	ND	53.0	0-305			
Acrolein	99.6	10.0	ug/L	200	ND	49.8	40-160			
Acrylonitrile	10.8	50.0	ug/L	20.0	ND	53.8	40-160			
Benzene	21.9	10.0	ug/L	20.0	ND	110	37-151			
Bromodichloromethane	50.1	10.0	ug/L	20.0	24.1	130	35-155			
Bromoform	26.3	10.0	ug/L	20.0	7.22	95.3	45-169			
Carbon Tetrachloride	21.9	2.00	ug/L	20.0	ND	109	70-140			
Chlorobenzene	20.2	10.0	ug/L	20.0	ND	101	37-160			
Chloroethane	27.1	50.0	ug/L	20.0	ND	136	14-230			
Chloroform	34.1	10.0	ug/L	20.0	11.1	115	51-138			
Dibromochloromethane	58.6	10.0	ug/L	20.0	36.1	113	53-149			
(Chlorodibromomethane)										
Cis-1,3-Dichloropropene	20.5	10.0	ug/L	20.0	ND	102	0-227			
Ethylbenzene	19.3	10.0	ug/L	20.0	ND	96.3	37-162			
Methyl Bromide	18.9	50.0	ug/L	20.0	ND	94.6	70-130			
Methyl Chloride	24.1	50.0	ug/L	20.0	ND	120	0-221			
Methyl Ethyl Ketone	86.0	50.0	ug/L	100	ND	86.0	70-130			
Toluene	18.2	10.0	ug/L	20.0	ND	90.9	47-150			
trans-1,2-Dichloroethene	21.3	10.0	ug/L	20.0	ND	106	54-156			
Trans-1,3-Dichloropropene	18.4	10.0	ug/L	20.0	ND	91.8	17-183			
Trichloroethene	21.3	10.0	ug/L	20.0	ND	106	70-157			
Cis-1,2-Dichloroethene	20.6	10.0	ug/L	20.0	ND	103	63-137			
Vinyl Chloride	18.1	10.0	ug/L	20.0	ND	90.3	0-151			
Methylene Chloride (Dichloromethane)	22.5	10.0	ug/L	20.0	ND	113	0-221			
Tetrachloroethene (Tetrachloroethylene)	18.2	10.0	ug/L	20.0	ND	91.2	64-148			
Acetone	97.7	10.0	ug/L	100	ND	97.7	70-130			

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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
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Batch B4I3625 - EPA 5030C

Matrix Spike (B4I3625-MS1)	Source: 4391453-01			Prepared & Analyzed: 9/26/2024 2:53:00PM						
Surrogate: 1,2-Dichloroethane-d4	21.6		ug/L	20.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	19.4		ug/L	20.0		97.2	70-130			
Surrogate: Dibromofluoromethane	22.6		ug/L	20.0		113	70-130			
Surrogate: Toluene-d8	19.0		ug/L	20.0		95.0	70-130			

Matrix Spike Dup (B4I3625-MSD1)	Source: 4391453-01			Prepared & Analyzed: 9/26/2024 3:20:00PM						
1,1,1-Trichloroethane	20.7	10.0	ug/L	20.0	ND	104	52-162	3.08	36	
1,1,2,2-Tetrachloroethane	17.5	10.0	ug/L	20.0	ND	87.5	46-157	1.18	61	
1,1,2-Trichloroethane	19.2	10.0	ug/L	20.0	ND	95.9	52-150	2.64	45	
1,1-Dichloroethane	22.7	10.0	ug/L	20.0	ND	114	59-155	3.31	40	
1,1-Dichloroethene	23.4	10.0	ug/L	20.0	ND	117	0-234	0.829	32	
1,2-Dibromoethane	21.8	10.0	ug/L	20.0	ND	109	70-130	1.96	25	
1,2-Dichloroethane	21.1	10.0	ug/L	20.0	ND	106	49-155	0.00	49	
1,2-Dichloropropane	22.3	10.0	ug/L	20.0	ND	112	0-210	4.44	55	
2-Chloroethyl vinyl ether	53.0	10.0	ug/L	100	ND	53.0	0-305	0.00	71	
Acrolein	99.6	10.0	ug/L	200	ND	49.8	40-160	0.00	60	
Acrylonitrile	10.8	50.0	ug/L	20.0	ND	53.8	40-160	0.00	60	
Benzene	21.9	10.0	ug/L	20.0	ND	110	37-151	0.00	61	
Bromodichloromethane	50.1	10.0	ug/L	20.0	24.1	130	35-155	0.00	56	
Bromoform	27.1	10.0	ug/L	20.0	7.22	99.3	45-169	2.99	42	
Carbon Tetrachloride	21.8	2.00	ug/L	20.0	ND	109	70-140	0.131	41	
Chlorobenzene	20.7	10.0	ug/L	20.0	ND	103	37-160	2.14	53	
Chloroethane	28.9	50.0	ug/L	20.0	ND	144	14-230	6.25	78	
Chloroform	35.2	10.0	ug/L	20.0	11.1	120	51-138	3.17	54	
Dibromochloromethane	60.9	10.0	ug/L	20.0	36.1	124	53-149	3.86	50	
(Chlorodibromomethane)										
Cis-1,3-Dichloropropene	20.5	10.0	ug/L	20.0	ND	102	0-227	0.117	58	
Ethylbenzene	19.3	10.0	ug/L	20.0	ND	96.3	37-162	0.00	63	
Methyl Bromide	21.3	50.0	ug/L	20.0	ND	107	70-130	11.9	25	
Methyl Chloride	24.5	50.0	ug/L	20.0	ND	122	0-221	1.61	25	
Methyl Ethyl Ketone	86.7	50.0	ug/L	100	ND	86.7	70-130	0.845	25	
Toluene	17.8	10.0	ug/L	20.0	ND	89.0	47-150	2.12	41	
trans-1,2-Dichloroethene	21.3	10.0	ug/L	20.0	ND	106	54-156	0.00	45	
Trans-1,3-Dichloropropene	18.3	10.0	ug/L	20.0	ND	91.6	17-183	0.255	86	
Trichloroethene	21.0	10.0	ug/L	20.0	ND	105	70-157	1.32	48	
Cis-1,2-Dichloroethene	22.4	10.0	ug/L	20.0	ND	112	63-137	8.54	25	
Vinyl Chloride	18.1	10.0	ug/L	20.0	ND	90.3	0-151	0.00	66	
Methylene Chloride (Dichloromethane)	22.5	10.0	ug/L	20.0	ND	113	0-221	0.00	28	
Tetrachloroethene (Tetrachloroethylene)	18.2	10.0	ug/L	20.0	ND	91.2	64-148	0.00	39	

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

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
<b>Batch B413625 - EPA 5030C</b>										
<b>Matrix Spike Dup (B413625-MSD1)</b>		<b>Source: 4391453-01</b>			<b>Prepared &amp; Analyzed: 9/26/2024 2:53:00PM</b>					
Acetone	97.7	10.0	ug/L	100	ND	97.7	70-130	0.00	25	
Surrogate: 1,2-Dichloroethane-d4	21.6		ug/L	20.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	19.7		ug/L	20.0		98.6	70-130			
Surrogate: Dibromofluoromethane	21.4		ug/L	20.0		107	70-130			
Surrogate: Toluene-d8	19.0		ug/L	20.0		95.0	70-130			



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#### Notes and Definitions

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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(936) 569-8879 \* FAX (936) 569-8951

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White Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy

## REPORT TO:

Company: City of Galveston

Address:

Attn: On file

Phone#:

Email:

P.O. #:

Sampler's Name (print): Constance GuidrySampler's Signature: [Signature]Project Name: Teramar WWT

## INVOICE TO:

Company:

Address: SAME

Attn:

Phone#:

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

Remarks:

ANALYSIS REQUESTED

Audic HerbOrganophos.Semi-VolCarbaryl DiuronPCBNonylphenolVolatiles 624.1LLHgLLHg Blank

Work Order ID		Sample ID	Date	Time	Matrix	C or G	DO	pH	Cl2	Flow	Temp	#	Size	Type	Pres
4391431		EH	9/26/24	1100	WW	C						2	3	G	C
4391431		EH	9/26/24	1100	WW	C						2	3	G	C
4391431		EH	9/26/24	1100	WW	C						2	3	G	C
4391431		EH	9/26/24	1100	WW	C						2	3	G	C
4391431		EH	9/26/24	1100	WW	C						2	3	G	C
4391431		EH	9/26/24	1100	WW	C						2	3	G	CS
4391431		EH	9/26/24	1100	WW	C						3	8	G	FL
4391431		EH	9/26/24	1100	WW	C						3	8	G	FL
4391431		EH	9/26/24	1100	WW	C						2	8	G	C

Relinquished By:

Received By:

Date

Time

Relinquished By:

Received By:

Date

Time

Received Iced: YES / NO

Received Iced: YES / NO

Received Iced: YES / NO

By:

Received By and/or Checked in By:

Date

Time

Sample Condition Acceptable: YES / NO

Date

Time

Temp C

\*Therm ID

Logged In By:

Date

Time

\*Thermometer has 0.0 factor and recorded temperature is actual temperature

Code Revision 3: 05/01/18

Eastex Environmental Laboratory, Inc.



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Wednesday, September 25, 2024

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

Dear Cynthia Diaz

I hope this message finds you well. I am writing to inform you about an issue concerning the permit renewal analysis for Galveston Terramar WWTP. Unfortunately, the subcontracted portion of the sample collected on August 13, 2024, was not analyzed, as the subcontract lab has no record of receipt. This oversight occurred due to several new employees on our sample management team.

To address this, we will be recollecting the volatiles grab portion for in-house analysis, with results expected by Friday, September 27, 2024. The composite organics, as well as the low-level mercury, will be subcontracted on a rush priority basis, and we will report those results expedited to report as soon as possible with no additional cost. I will be following up with you with a more exact date.

I apologize for any inconvenience this may have caused and ask that you retain this letter for your records and reference during upcoming compliance inspections. Should you have any questions or require further clarification, please do not hesitate to contact me at 936-653-3249.

Thank you,

Daniel Bowen  
Operations Manager



27 September 2024

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

RE: Galveston Terramar Long Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 08/13/24 16:50, with Lab ID Number C4G9955. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

  
Mark Bourgeois  
Special Projects Manager



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Galveston Terramar WWTP  
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Galveston TX, 77553

### LABORATORY ANALYTICAL REPORT

Project: Galveston Terramar Long Permit Renewal  
Sample Matrix: Water  
Client Matrix: Water

Sample Date and Time: 08/13/2024 10:05

Collector: LN

Sample Type: Composite

Print Date: 9/27/2024

EIT PR  
C4G9955-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Aluminum - Total	22.5	2.50	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Antimony - Total	<2.00	2.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Arsenic, Total	3.22	0.500	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Barium, Total	29.1	1.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Beryllium, Total	<0.500	0.500	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Cadmium, Total	<1.00	1.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Chromium, (VI)	<3	3	ug/L	A	B4I0083	09/02/2024 15:15	SM 3500 Cr B	
Chromium, Total	<1.00	1.00	ug/L	A	B4I12796	08/20/2024 11:35	EPA 200.8	
Chromium, Trivalent	<3	3	ug/L	N	B4I1109	09/10/2024 09:57		
Copper, Total	9.99	2.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Fluoride	100	100	ug/L	A	B4H2275	08/14/2024 09:00	EPA 300.0	
Lead, Total	<0.500	0.500	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Nickel, Total	<2.00	2.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Nitrate as N	<50.0	50.0	ug/L	A	B4H2275	08/14/2024 09:00	EPA 300.0	
Selenium, Total	<2.00	2.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Silver, Total	<0.500	0.500	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Thallium, Total	<0.500	0.500	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	
Zinc, Total	15.0	5.00	ug/L	A	B4H2796	08/20/2024 11:35	EPA 200.8	

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

Project: Galveston Terramar Long Permit Renewal  
Sample Matrix: Water  
Client Matrix: Water

Sample Date and Time: 08/13/2024 10:05

Collector: LN

Sample Type: Grab

Print Date: 9/27/2024

Eff PR  
C4G9955-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Alkalinity	220	20.0	mg CaCO <sub>3</sub> /L	A	B4H2420	08/15/2024 14:15	SM 2320 B	
Ammonia as N	25.4	0.1	mg/L	A	B4H2411	08/21/2024 17:55	SM 4500 NH <sub>3</sub> L	
CBOD 5	210	2.0	mg/L	A	B4H2115	08/14/2024 06:07	SM 5210 B	1
Chloride	229	5.0	mg/L	A	B4H2275	08/14/2024 09:00	EPA 300.0	
Conductivity	1298	10	µmhos/cm @25C	A	B4H2306	08/15/2024 13:42	SM 2510 B	
Cyanide	<5.00	5.00	ug/L	A	B4H3002	08/22/2024 17:35	SM 4500 CN- E	
Enterococcus	43	1	mpn/100ml	A	B4H2205	08/13/2024 16:58	Enterolert IDEXX	
Nitrate as N	140	50	ug/L	A	B4H2275	08/14/2024 09:00	EPA 300.0	
Oil Grease, HEM	<5.1	5.1	mg/L	A	B4H2851	08/27/2024 11:38	EPA 1664A	20
Phenol, low level	<10.0	10.0	ppb	A	B4I0110	09/03/2024 10:22	EPA 420.1	13 51
Sulfate	55.4	4.0	mg/L	A	B4H2275	08/14/2024 09:00	EPA 300.0	
TDS	770	10.0	mg/L	A	B4H2300	08/15/2024 10:29	SM 2540 C	
TKN	23.6	1.0	mg/L	A	B4H3243	08/23/2024 10:50	EPA 351.2	13
Total Phosphorus	5.66	0.0500	mg/L	A	B4H2224	08/15/2024 15:07	EPA 200.7	
TSS	18.6	1.0	mg/L	A	B4H2314	08/15/2024 12:05	SM 2540 D	

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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
<b>Batch B4H2115 - No Prep</b>										
<b>Blank (B4H2115-BLK1)</b>					Prepared & Analyzed: 8/14/2024 6:07:00AM					
CBOD 5	1.19	2.0	mg/L							
<b>LCS (B4H2115-BS1)</b>					Prepared & Analyzed: 8/14/2024 6:07:00AM					
CBOD 5	207		mg/L	198		104	4.59-115.40			
<b>Duplicate (B4H2115-DUP1)</b>					Source: C4H4462-01 Prepared & Analyzed: 8/14/2024 6:07:00AM					
CBOD 5	166	2.0	mg/L		216			26.4	30	
<b>Batch B4H2205 - No Prep Micro</b>										
<b>Blank (B4H2205-BLK1)</b>					Prepared & Analyzed: 8/13/2024 4:58:00PM					
Enterococcus	ND	1	mpn/100ml							
<b>Duplicate (B4H2205-DUP1)</b>					Source: C4H4532-01 Prepared & Analyzed: 8/13/2024 4:58:00PM					
Enterococcus	10	10	mpn/100ml		ND				200	
<b>Batch B4H2224 - EPA 200.7</b>										
<b>Blank (B4H2224-BLK1)</b>					Prepared & Analyzed: 8/15/2024 3:03:55PM					
Total Phosphorus	ND	0.0600	mg/L							
<b>LCS (B4H2224-BS1)</b>					Prepared & Analyzed: 8/15/2024 3:05:31PM					
Total Phosphorus	2.45	0.0600	mg/L	2.52		97.2	85-115			
<b>Matrix Spike (B4H2224-MS1)</b>					Source: C4G9955-02 Prepared & Analyzed: 8/15/2024 3:10:19PM					
Total Phosphorus	8.21	0.0600	mg/L	2.52	5.66	101	70-130			
<b>Matrix Spike Dup (B4H2224-MSD1)</b>					Source: C4G9955-02 Prepared & Analyzed: 8/15/2024 3:11:55PM					
Total Phosphorus	8.05	0.0600	mg/L	2.52	5.66	94.6	70-130	1.99	20	
<b>Batch B4H2275 - No Prep</b>										
<b>Blank (B4H2275-BLK1)</b>					Prepared & Analyzed: 8/14/2024 9:00:00AM					
Chloride	ND	5.0	mg/L							
Sulfate	ND	4.0	mg/L							
Fluoride	ND	100	ug/L							
Nitrate as N	ND	50	ug/L							
Nitrate as N	ND	50.0	ug/L							
<b>LCS (B4H2275-BS1)</b>					Prepared & Analyzed: 8/14/2024 9:00:00AM					
Chloride	23.7		mg/L	25.0		94.7	90-110			
Fluoride	0.552		mg/L	0.500		110	90-110			

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

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
<b>Batch B4H2275 - No Prep</b>										
<b>I.CS (B4H2275-BS1)</b>				Prepared & Analyzed: 8/14/2024 9:00:00AM						
Nitrate as N	1.444		mg/L	1.50		96.3	90-110			
Sulfate	20.0		mg/L	20.0		99.8	90-110			
<b>Matrix Spike (B4H2275-MS1)</b>				Source: C4G9955-01	Prepared & Analyzed: 8/14/2024 9:00:00AM					
Chloride	328	5.0	mg/L	125	206	97.1	80-120			
Sulfate	151	4.0	mg/L	100	56.0	94.7	80-120			
Fluoride	2630	100	ug/L	2500	100	101	80-120			
Nitrate as N	8139.3	50	ug/L	7500	41.3	108	80-120			
Nitrate as N	8139.3	50.0	ug/L	7500	41.3	108	80-120			
<b>Matrix Spike Dup (B4H2275-MSD1)</b>				Source: C4G9955-01	Prepared & Analyzed: 8/14/2024 9:00:00AM					
Chloride	329	5.0	mg/L	125	206	97.7	80-120	0.207	20	
Sulfate	151	4.0	mg/L	100	56.0	94.5	80-120	0.131	20	
Fluoride	2630	100	ug/L	2500	100	101	80-120	0.0532	20	
Nitrate as N	8136.3	50	ug/L	7500	41.3	108	80-120	0.0369	20	
Nitrate as N	8136.3	50.0	ug/L	7500	41.3	108	80-120	0.0369	20	
<b>Batch B4H2300 - No Prep</b>										
<b>Blank (B4H2300-BLK1)</b>				Prepared & Analyzed: 8/15/2024 10:29:00AM						
TDS	ND	10.0	mg/L							
<b>LCS (B4H2300-BS1)</b>				Prepared & Analyzed: 8/15/2024 10:29:00AM						
TDS	340		mg/L	300		113	80-120			
<b>Duplicate (B4H2300-DUP1)</b>				Source: C4G9955-02	Prepared & Analyzed: 8/15/2024 10:29:00AM					
TDS	710	10.0	mg/L		770			8.11	16	
<b>Batch B4H2306 - No Prep</b>										
<b>Blank (B4H2306-BLK1)</b>				Prepared & Analyzed: 8/15/2024 1:42:00PM						
Conductivity	ND	10	µmhos/cm @25C							
<b>LCS (B4H2306-BS1)</b>				Prepared & Analyzed: 8/15/2024 1:42:00PM						
Conductivity	1008		µmhos/cm @25C	1000		101	80-120			
<b>Duplicate (B4H2306-DUP1)</b>				Source: C4G9955-02	Prepared & Analyzed: 8/15/2024 1:42:00PM					
Conductivity	1298	10	µmhos/cm @25C		1298			0.00	20	

**Batch B4H2314 - No Prep**

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SM 2540 D - Quality Control  
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (B4H2314-BLK1)</b> Prepared & Analyzed: 8/15/2024 12:05:00PM										
TSS	ND	1.0	mg/L							
<b>Duplicate (B4H2314-DUP1)</b> Source: C4H5119-01 Prepared & Analyzed: 8/15/2024 12:05:00PM										
TSS	184	1.0	mg/L		186			1.08	10	
<b>Batch B4H2411 - No Prep</b>										
<b>Blank (B4H2411-BLK1)</b> Prepared & Analyzed: 8/21/2024 5:55:00PM										
Ammonia as N	ND	0.1	mg/L							
<b>LCS (B4H2411-BS1)</b> Prepared & Analyzed: 8/21/2024 5:55:00PM										
Ammonia as N	3.87		mg/L	4.00		96.8	90-110			
<b>Matrix Spike (B4H2411-MS1)</b> Source: C4H4926-01 Prepared & Analyzed: 8/21/2024 5:55:00PM										
Ammonia as N	2.7	0.1	mg/L	2.50	0.4	92.8	80-120			
<b>Matrix Spike Dup (B4H2411-MSD1)</b> Source: C4H4926-01 Prepared & Analyzed: 8/21/2024 5:55:00PM										
Ammonia as N	2.8	0.1	mg/L	2.50	0.4	94.2	80-120	1.30	20	
<b>Batch B4H2420 - No Prep</b>										
<b>Blank (B4H2420-BLK1)</b> Prepared & Analyzed: 8/15/2024 2:15:00PM										
Alkalinity	ND	20.0	mg CaCO3/L							
<b>LCS (B4H2420-BS1)</b> Prepared & Analyzed: 8/15/2024 2:15:00PM										
Alkalinity	48.0		mg CaCO3/L	50.0		96.0	80-120			
<b>Duplicate (B4H2420-DUP1)</b> Source: C4G9955-02 Prepared & Analyzed: 8/15/2024 2:15:00PM										
Alkalinity	214	20.0	mg CaCO3/L		220			2.76	20	
<b>Batch B4H2796 - EPA 200.8</b>										
<b>Blank (B4H2796-BLK1)</b> Prepared & Analyzed: 8/20/2024 11:29:00AM										
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							

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

**EPA 200.8 - Quality Control**  
**Eastex Environmental Laboratory - Coldspring**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H2796 - EPA 200.8</b>										
<b>Blank (B4H2796-BLK1)</b>				<b>Prepared &amp; Analyzed: 8/20/2024 11:29:00AM</b>						
Silver, Total	ND	0.500	ug/L							
Thallium, Total	ND	0.500	ug/L							
Zinc, Total	ND	5.00	ug/L							
<b>LCS (B4H2796-BS1)</b>				<b>Prepared &amp; Analyzed: 8/20/2024 11:32:00AM</b>						
Aluminum - Total	106	2.50	ug/L	100		106	85-115			
Antimony - Total	101	5.00	ug/L	100		101	85-115			
Arsenic, Total	104	0.500	ug/L	100		104	85-115			
Barium, Total	102	3.00	ug/L	100		102	85-115			
Beryllium, Total	101	0.500	ug/L	100		101	85-115			
Cadmium, Total	104	1.00	ug/L	100		104	85-115			
Chromium, Total	104	3.00	ug/L	100		104	85-115			
Copper, Total	104	2.00	ug/L	100		104	85-115			
Lead, Total	97.2	0.500	ug/L	100		97.2	85-115			
Nickel, Total	106	2.00	ug/L	100		106	85-115			
Selenium, Total	105	5.00	ug/L	100		105	85-115			
Silver, Total	98.0	0.500	ug/L	100		98.0	85-115			
Thallium, Total	97.4	0.500	ug/L	100		97.4	85-115			
Zinc, Total	99.8	5.00	ug/L	100		99.8	85-115			
<b>Matrix Spike (B4H2796-MS1)</b>				<b>Source: C4G9955-01 Prepared &amp; Analyzed: 8/20/2024 11:42:00AM</b>						
Aluminum - Total	132	2.50	ug/L	100	22.5	110	70-130			
Antimony - Total	106	5.00	ug/L	100	ND	106	70-130			
Arsenic, Total	107	0.500	ug/L	100	3.22	104	70-130			
Barium, Total	136	3.00	ug/L	100	29.1	107	70-130			
Beryllium, Total	99.9	0.500	ug/L	100	ND	99.9	70-130			
Cadmium, Total	103	1.00	ug/L	100	ND	103	70-130			
Chromium, Total	105	3.00	ug/L	100	0.459	105	70-130			
Copper, Total	110	2.00	ug/L	100	9.99	100	70-130			
Lead, Total	99.7	0.500	ug/L	100	0.293	99.4	70-130			
Nickel, Total	106	2.00	ug/L	100	1.66	104	70-130			
Selenium, Total	98.0	5.00	ug/L	100	ND	98.0	70-130			
Silver, Total	95.6	0.500	ug/L	100	ND	95.6	70-130			
Thallium, Total	98.9	0.500	ug/L	100	0.0390	98.8	70-130			
Zinc, Total	113	5.00	ug/L	100	15.0	97.7	70-130			
<b>Matrix Spike Dup (B4H2796-MSD1)</b>				<b>Source: C4G9955-01 Prepared &amp; Analyzed: 8/20/2024 11:45:00AM</b>						
Aluminum - Total	136	2.50	ug/L	100	22.5	114	70-130	3.23	20	
Antimony - Total	104	5.00	ug/L	100	ND	104	70-130	1.49	20	
Arsenic, Total	109	0.500	ug/L	100	3.22	106	70-130	1.87	20	

Eastex Environmental Laboratory - Coldspring

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

EPA 200.8 - Quality Control  
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H2796 - EPA 200.8</b>										
<b>Matrix Spike Dup (B4H2796-MSD1)</b>		<b>Source: C4G9955-01</b>		<b>Prepared &amp; Analyzed: 8/20/2024 11:45:00AM</b>						
Barium, Total	134	3.00	ug/L	100	29.1	105	70-130	1.80	20	
Beryllium, Total	101	0.500	ug/L	100	ND	101	70-130	0.951	20	
Cadmium, Total	103	1.00	ug/L	100	ND	103	70-130	0.178	20	
Chromium, Total	105	3.00	ug/L	100	0.439	104	70-130	0.546	20	
Copper, Total	110	2.00	ug/L	100	9.99	100	70-130	0.00453	20	
Lead, Total	101	0.500	ug/L	100	0.293	101	70-130	1.20	20	
Nickel, Total	107	2.00	ug/L	100	1.66	106	70-130	1.29	20	
Selenium, Total	97.1	5.00	ug/L	100	ND	97.1	70-130	0.845	20	
Silver, Total	94.4	0.500	ug/L	100	ND	94.4	70-130	1.31	20	
Thallium, Total	99.9	0.500	ug/L	100	0.0390	99.9	70-130	1.07	20	
Zinc, Total	115	5.00	ug/L	100	15.0	99.7	70-130	1.76	20	
<b>Batch B4H2851 - No Prep</b>										
<b>Blank (B4H2851-BLK1)</b>		<b>Prepared &amp; Analyzed: 8/27/2024 11:38:00AM</b>								
Oil Grease, HEM	ND	5.0	mg/L							
<b>LCS (B4H2851-BS1)</b>		<b>Prepared &amp; Analyzed: 8/27/2024 11:38:00AM</b>								
Oil Grease, HEM	40.2	5.0	mg/L	40.0		100	78-114			
<b>LCS Dup (B4H2851-BSD1)</b>		<b>Prepared &amp; Analyzed: 8/27/2024 11:38:00AM</b>								
Oil Grease, HEM	40.1	5.0	mg/L	40.0		100	78-114	0.249	18	
<b>Matrix Spike (B4H2851-MS1)</b>		<b>Source: C4H5591-01</b>		<b>Prepared &amp; Analyzed: 8/27/2024 11:38:00AM</b>						
Oil Grease, HEM	40.8	5.1	mg/L	40.0	ND	102	78-114			
<b>Batch B4H3002 - No Prep</b>										
<b>Blank (B4H3002-BLK1)</b>		<b>Prepared &amp; Analyzed: 8/22/2024 5:35:00PM</b>								
Cyanide	ND	5.00	ug/L							
<b>LCS (B4H3002-BS1)</b>		<b>Prepared &amp; Analyzed: 8/22/2024 5:35:00PM</b>								
Cyanide	38.3		ug/L	40.0		95.7	90-110			
<b>Matrix Spike (B4H3002-MS1)</b>		<b>Source: C4H4238-01</b>		<b>Prepared &amp; Analyzed: 8/22/2024 5:35:00PM</b>						
Cyanide	43.9	5.00	ug/L	40.0	ND	110	90-110			
<b>Matrix Spike Dup (B4H3002-MSD1)</b>		<b>Source: C4H4238-01</b>		<b>Prepared &amp; Analyzed: 8/22/2024 5:35:00PM</b>						
Cyanide	40.3	5.00	ug/L	40.0	ND	101	90-110	8.46	20	
<b>Batch B4H3243 - SM 4500 Norg C</b>										

Eastex Environmental Laboratory - Coldspring

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

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Tel: 936 653 3249



EPA 351.2 - Quality Control  
Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H3243 - SM 4500 Norg C</b>										
<b>Blank (B4H3243-BLK1)</b>				Prepared & Analyzed: 8/23/2024 10:50:00AM						
TKN	ND	1.0	mg/L							
<b>LCS (B4H3243-BS1)</b>				Prepared & Analyzed: 8/23/2024 10:50:00AM						
TKN	7.29		mg/L	10.0		72.9	90-110			13
<b>Matrix Spike (B4H3243-MS1)</b>				Source: C4G9955-02 Prepared & Analyzed: 8/23/2024 10:50:00AM						
TKN	33.3	1.0	mg/L	10.0	23.6	96.9	80-120			11
<b>Matrix Spike Dup (B4H3243-MSD1)</b>				Source: C4G9955-02 Prepared & Analyzed: 8/23/2024 10:50:00AM						
TKN	32.9	1.0	mg/L	10.0	23.6	92.7	80-120	1.27	20	11
<b>Batch B4I0083 - No Prep</b>										
<b>Blank (B4I0083-BLK1)</b>				Prepared & Analyzed: 9/2/2024 3:15:00PM						
Chromium, (VI)	ND	3	ug/L							
<b>LCS (B4I0083-BS1)</b>				Prepared & Analyzed: 9/2/2024 3:15:00PM						
Chromium, (VI)	19.032	3	ug/L				90-110			
<b>Matrix Spike (B4I0083-MS1)</b>				Source: 4350068-01 Prepared & Analyzed: 9/2/2024 3:15:00PM						
Chromium, (VI)	41.624	3	ug/L	44.6	ND	93.3	80-120			
<b>Matrix Spike Dup (B4I0083-MSD1)</b>				Source: 4350068-01 Prepared & Analyzed: 9/2/2024 3:15:00PM						
Chromium, (VI)	41.624	3	ug/L	44.6	ND	93.3	80-120	0.00	20	
<b>Batch B4I0110 - No Prep</b>										
<b>Blank (B4I0110-BLK1)</b>				Prepared & Analyzed: 9/3/2024 10:22:00AM						
Phenol, low level	ND	10.0	ppb							
<b>LCS (B4I0110-BS1)</b>				Prepared & Analyzed: 9/3/2024 10:22:00AM						
Phenol, low level	119		ppb	50.0		237	80-120			13
<b>LCS Dup (B4I0110-BSD1)</b>				Prepared & Analyzed: 9/3/2024 10:22:00AM						
Phenol, low level	82.7		ppb	50.0		165	80-120	35.7	20	13, 53
<b>Matrix Spike (B4I0110-MS1)</b>				Source: C4G9955-02 Prepared & Analyzed: 9/3/2024 10:22:00AM						
Phenol, low level	47.7	10.0	ppb	40.0	ND	119	80-120			13, 53

Eastex Environmental Laboratory - Coldspring

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

#### Notes and Definitions

53	RPD Recovery outside acceptance limits due to matrix interference.
20	Sample pH not <2.
13	LCS associated with sample batch outside of acceptance limits.
1	Dilution water blank > 0.20 mg/L DO uptake.
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

**EASTEX ENVIRONMENTAL LABORATORY, INC.**P.O. Box 1089 \* Coldspring, TX 77331  
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(936) 569-8879 \* FAX (936) 569-8951  
www.eastexlabs.comWhite Copy-Follows Samples  
Yellow Copy-Laboratory  
Pink Copy-Client Copy**REPORT TO:**Company: City of Galveston  
Address:**INVOICE TO:**Company:  
Address: SAME

Remarks:

Attn:

Attn:

Phone#:

Phone#:

Email:

**INSTRUCTIONS:**

P.O. #:

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

Sampler's Name (print):  
Luis M. NavarroSampler's Signature:  
[Signature]Project Name:  
Extra Mar**Field Data****Containers**

Work Order ID	Sample ID	Date	Time	Matrix	C or G	DO	pH	Cl2	Flow	Temp	#	Size	Type	Pres	ANALYSIS REQUESTED
Water-P 1000	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Water-P 1000	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Water-G 1000	EFFluent	8/13/24	1005	WW	G						1		G	C	X
Water-AG 1000	EFFluent	8/13/24	1005	WW	G						1		G	C	X
Water-P 500	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Water-P 500	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Water-P 500	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Water-P 500	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Default Container	EFFluent	8/13/24	1005	WW	G						1		P	C	X
Default Container	EFFluent	8/13/24	1005	WW	G						1		P	C	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:

Time:

Received Iced: YES / NO

LAB USE ONLY

Sample Condition Acceptable:

YES / NO

Temp °C

Therm ID

Logged By:

Date:

Time:

Alternate Check In:

Date:

Time:

\*Thermometer has 0.0 factor and recorded temperature is actual temperature



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Pink Copy-Client Copy

**REPORT TO:**Company: City of Galveston**INVOICE TO:**Company: SAME  
Address: SAME

Remarks:

Attn:

Attn:

Phone#:

Phone#:

Email:

INSTRUCTIONS:

P.O. #:

Cor G:

C= Composite G= Grab

Sampler's Name (print):

Sampler's Signature:

Project Name:

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**Field Data****Containers**

Work Order ID	Sample ID	Date	Time	Matrix	Cor G	DO	pH	Cl2	Flow	Temp	#	Size	Type	Pres	ANALYSIS REQUESTED
Water-P 1000	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 1000	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 1000	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water - NONE	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS
Water-P 500	EFFluent	8/13/24	10:05	WW	G						1	P	C		Chloride 15, Nitrate 15, TDS

Relinquished By:

Received By:

Date:

Time:

Received Iced: YES / NO

Relinquished By:

Received By:

Date:

Time:

Received Iced: YES / NO

Relinquished By:

Received By:

Date:

Time:

Received Iced: YES / NO

LAB USE ONLY

Sample Condition Acceptable:

YES / NO

Temp °C

Therm ID

Logged In By:

Date:

Time:

Alternate Check In:

Date:

Time:

Temp °C

Therm ID

Logged In By:

Date:

Time:

\*Thermometer has 0.0 factor and recorded temperature is actual temperature

**CHECKLIST FOR ADMIN REVIEW OF MUNICIPAL INDIVIDUAL PERMIT APPLICATION**

Permit No. <u>WQ001068800S</u>	EPA ID <u>TX0066125</u>	MGD <u>1.0</u>
CN <u>600241376</u>	RN <u>101613925</u>	County <u>Galveston</u> Region No. <u>12</u>
EPA Class. <input type="checkbox"/> Major <input type="checkbox"/> Minor	App Received Date <u>7/11/2023</u>	Expiration Date <u>2/26/2024</u>
Status <input type="checkbox"/> Inactive <input type="checkbox"/> Active	Segment No. <u>2424</u>	Permit Type <input type="checkbox"/> TPDES <input type="checkbox"/> TLAP
Auth Type <u>IP</u>	Application Type <u>Renewal</u>	

Note: A minor facility is generally one in which the final flow is less than 1.0 MGD.

Application Review Date: 9/21/2023

- ☒ A copy of the **groundwater review** was provided (for TLAP new, major amendment, SADD minor amendment, and all applications with (or proposing) Class B sludge provisions).
- ☒ For **new and major amendment applications that propose surface water discharge (TPDES)**, the standards review for RWA comments is included.
- ☒ Coastal Zone sheet is included.

Fees or Penalties Owed: ☒ No ☐ Yes Amount Owed: N/A

Verified in Basis2 Report: Outstanding Past Due Transactions Detail Report by Customer Name.

**ADMINISTRATIVE REPORT 1.0 – FOR ALL APPLICATIONS****SECTION 1. APPLICATION FEES**

**Application Fees:** Correct amount is checked **and** check or voucher number is provided and verified in Basis2 Report: Water Quality Receipt Report.

Note: copies of checks should be removed and shredded.

**Municipal Application Fee Table**

Proposed/Final Phase Flow	New/Major Amend.	Renewals	Minor Amendment or Modification <u>without</u> Renewal
< .05 MGD	<input type="checkbox"/> \$350.00	<input type="checkbox"/> \$315.00	<input type="checkbox"/> \$150.00 (any flow)
≥ .05 but < .10 MGD	<input type="checkbox"/> \$550.00	<input type="checkbox"/> \$515.00	
≥ .10 but < .25 MGD	<input type="checkbox"/> \$850.00	<input type="checkbox"/> \$815.00	
≥ .25 but < .50 MGD	<input type="checkbox"/> \$1,250.00	<input type="checkbox"/> \$1,215.00	
≥ .50 but < 1.0 MGD	<input type="checkbox"/> \$1,650.00	<input type="checkbox"/> \$1,615.00	
≥ 1.0 MGD	<input type="checkbox"/> \$2,050.00	<input checked="" type="checkbox"/> \$2,015.00	

**SECTION 2. TYPE OF APPLICATION**

- ☒ The correct application type is marked
- ☒ Reason for amendment or modification is listed (if applicable).
- Check Tech Report 1.0 Section 4 – Unbuilt Phases and Tech Report 1.1 Section 1.A – Justification for Permit.

Notes: \_\_\_\_\_

### SECTION 3. FACILITY OWNER (APPLICANT) AND CO-APPLICANT INFORMATION

- ☒ Legal name of applicant is listed (***the owner of the facility must apply for the permit***).
- ☒ CN is listed for existing customer.
- ☒ Name and title of the person signing the application is listed and matches signature page.
- ☒ Legal name of co-applicant is listed (***if required to apply with facility owner***).
- ☒ Core Data Form (CDF) is provided. A separate CDF is required for each customer.

### CORE DATA FORM TCEQ Core Data Standards

#### Section I – General Information

- ☒ Reason for submittal is marked.
- ☒ Customer (CN) and Regulated Entity (RN) Reference Nos. provided – verify with Central Registry.

#### Section II – Customer Information

- ☒ Customer legal name is provided and it matches name on admin report.
- ☐ Texas SOS/Filing number is provided for a private business entity – verify with SOS
- ☐ Texas State Tax ID is provided for a private business entity – verify with Comptroller
- ☒ Type of customer is marked – refer to information below
  - ☐ **Corporation:** Check with Secretary of State (SOS). Verify the entity status and charter number – print page. Verify correct legal spelling of applicant's name. Check spelling with SOS against the name listed in the application. (Permit must be issued in name as filed with SOS.) The applicant must be "**In existence and active**" before the application can be processed further.
  - ☐ **Those entities subject to state franchise taxes:** If applicable, check with Comptroller of Public Accounts (CPA). Verify the tax identification number is correct. Note: Non-profit organizations and partnerships are not subject to the state franchise tax.
  - ☐ **Individual: Complete Attachment 1 of Admin. Report 1.0** The complete legal name, including the middle name; and all other information is required. This info is required by Chapter 26.027C of the Texas Water Code. A separate attachment is required for each individual customer.
  - ☐ **Utility District:** Check iWDD to verify that district is not dissolved status (inactive is O.K. to process).
  - ☐ **Trust:** A copy of an executed trust agreement is provided. Verify that applicant's name is the same as the name in the trust agreement. NOTE: Executed trust must show signatures of trustees or beneficiaries forming the trust and the county in which it is recorded.
  - ☐ **Partnership:** Verify with Secretary of State (SOS) that partnership is registered, active, and has a filing number. Check spelling with SOS against the name submitted in Item 1; Check that SOS # is correct; Print page from SOS website. OR if the partnership is not listed with the SOS, the applicant must provide a copy of the partnership agreement. The agreement must: give the name of the partnership as provided on the application for permit; list names of partners; bear signatures of the partners; and state the terms of the partnership.
  - ☒ **Municipality/Governmental Agencies/School Districts:** City, County, ISD, Fed, etc. – applicable info is listed. Can verify with their public webpage.
  - ☐ Other \_\_\_\_\_
- ☒ Number of employees is marked
- ☒ Customer role is marked
- ☒ Mailing address for the applicant is provided - verify on USPS. This address is for mailing the permit.
- ☒ Email address is provided
- ☒ Telephone number is provided

### **Section III – Regulated Entity Information**

- ☒ Regulated Entity Name is provided and it matches name on admin report.
- ☒ Street address or location description of facility is adequately described. If different from current permit, new permit may be required. Use GIS mapping to confirm street address.
- ☒ The county where the facility is located is provided.
- ☒ The name of the nearest city is provided.
- ☒ The zip code is provided.
- ☒ The longitude and latitude of the facility is provided – check Map It link by searching for the Additional ID “AI” (WQ permit number) in Central Registry Internal Reporting Tool.
- ☐ Primary SIC Code is provided.
- ☒ Permit No. listed under appropriate program- if not listed, add it.
- ☒ **NOTE:** If other program ID numbers are listed and Update to Regulated Entity is checked in Section III, a copy of the CDF should be emailed to Central Registry EAMT at [registry@tceq.texas.gov](mailto:registry@tceq.texas.gov).

### **Section IV – Preparer Information**

- ☒ Name, title, telephone number, and email address are provided.

### **Section V – Authorized Signature**

- ☒ Company name, title, printed name, phone number, signature, and date are provided.

### **SECTION 4. APPLICATION CONTACT INFORMATION**

- ☒ Administrative and Technical contact name, address, electronic information provided.

### **SECTION 5. PERMIT CONTACT INFORMATION**

- ☒ 2 Permit contact names, addresses, electronic information provided.

### **SECTION 6. BILLING CONTACT INFORMATION**

- ☐ Billing contact name, address, electronic information provided.

### **SECTION 7. REPORTING CONTACT INFORMATION**

- ☒ DMR/MER contact name, address, electronic information provided.

### **SECTION 8. PUBLIC NOTICE INFORMATION**

- ☒ **Minor Amendment without Renewal** – NORI not required. Skip review of notice information.
- ☒ Name, address, and phone number of one person responsible for publishing NORI is provided.
- ☒ Method of sending NORI package is provided.
- ☒ Name and phone number of contact to be in NORI is provided.
- ☒ Location where application will be available is provided and is in the county where the facility is located - the location must be a building supported by taxpayer funds. Note: If discharge is directly into water body that borders two counties, application must be placed in a public facility in both counties and the notice must be published in both counties.
- ☒ Bilingual Items 1 – 5 are completed. If “Yes” to question 1 and “Yes” to either question 2, 3 or 4, then e.5 must be completed Y/A

### **Public Involvement Plan (PIP) All New or Major Amendment Applications**

For all PIP forms:

- ☐ Section 1 is completed.
- ☐ Section 2 is completed. All municipal new and major amendment applications require public notice. Verify the geographic location responses are correct using the statistical area map.

If ALL boxes in Section 2 are checked and verified:

- ☐ Sections 3, 6, and 7 are completed.
- ☐ Section 4 is completed, or plain language summary was provided by separate attachment for Section 15.
- ☐ Section 5 is completed. Any languages over 5% in items d and e will require alternative language notice and plain language summary.

## SECTION 9. REGULATED ENTITY and PERMITTED SITE INFORMATION

- ☒ Regulated Entity No. is listed. If not, it is not a deficiency. It can be verified with Central Registry and PARIS.
- ☒ Name of project or site is provided. Should correspond to Item 22 on CDF.
- ☒ Owner of the facility identified in the application is the same as the name given in Section 3.A  
**NOTE: THE OWNER OF THE FACILITY IS REQUIRED TO APPLY FOR THE PERMIT**  
(Refer to legal policy memo for complete definition and discussion of facility.)
- ☒ Marked whether ownership of the facility is public, private, or both.
- ☒ Owner of the land where permitted facility is or will be located is the **SAME** as the applicant.
- ☒ The owner of the land on which the facility is located is **DIFFERENT FROM** the owner of the facility: A copy of a lease agreement or easement, with a term for the duration of the permit, between applicant and landowner, has been provided. See Lease Agreement/Easement Memo dated 2/14/06, that states that a lease is sufficient for pond systems, and that details the provisions that a lease agreement or easement must contain. Lease must identify property by legal description or map.  
**OR** landowner can apply as a co-permittee.

### Effluent Disposal Site Owner:

- ☒ N/A - (no effluent disposal proposed)
- ☐ If land disposal is authorized in permit or proposed, the applicant **OWNS** land on which site is located.
- ☐ If applicant **DOES NOT OWN** land where site is located, a long-term lease agreement is provided which includes: a term of at least 5 years; is current or it includes an option to renew the term; is between the current applicant and the landowner; and includes description of property by legal description or map.  
(For new TLAP permits only: A copy of an executed option to purchase agreement may be provided to show that applicant will have ownership of the land upon permit approval.)

### Sewage Sludge Disposal Site Owner:

- ☒ N/A - (no sludge disposal proposed)
- ☐ If sludge is authorized in permit or proposed, the applicant **OWNS** land on which disposal site is located, otherwise lease is needed unless Class B sludge is land applied. Check the permit under Sludge Provisions to determine if sludge is authorized. Note: For BLU sludge application - lease is not needed; landowner just needs to sign sludge affidavit (if different from applicant).

If sludge disposal is proposed or authorized in the permit, the applicant must also submit the applicable sludge forms.

## SECTION 10. TPDES DISCHARGE INFORMATION

- ☒ Checked if treatment facility location in permit is correct.
- ☒ Checked if discharge info in permit is correct. If applicable, the discharge route description is adequately described and describes the discharge route to the nearest major watercourse. Changing the point of discharge and route from the current permit description requires a major amendment
- ☒ The name of the city (or nearest city) where the outfall(s) is/will be located has been provided
- ☒ The county where the outfall is located is provided
- ☒ The longitude and latitude of the outfall is provided
- ☒ Marked item regarding authorization for discharge into a city, county, or state ditch. If applicable, correspondence is provided. Email TXDOT if discharge is to a state highway right-of-way or roadside ditch.
- ☒ For a daily average flow of 5 MGD or more: the names of all counties located within 100 miles downstream from the point of discharge. These counties will be listed on contact sheet.

## SECTION 11. TLAP DISPOSAL INFORMATION

- ☐ The written location description of the disposal site is adequately described. (**NOTE: A CHANGE IN LOCATION OR INCREASE IN ACREAGE REQUIRES A MAJOR AMENDMENT. A decrease in acreage may also be a major amendment (due to flow rate) - check with permit writer**)
- ☐ The name of the city (or nearest city) has been provided
- ☐ The county where the disposal site is located is provided
- ☐ The longitude and latitude of the disposal site is provided
- ☐ The written flow of effluent from the facility to the effluent disposal site is adequately described
- ☐ The nearest watercourse to the disposal site is listed



## SECTION 12. MISCELLANEOUS INFORMATION

- ☒ Identified whether or not facility or discharge are on American Indian Land. If yes, we do not have permit authority.)
- ☐ For permits that allow sewage sludge disposal the location description is adequately described. For an existing permit, check to see that the location has not changed
- ☒ Indicated whether any former TCEQ employees who were paid for services regarding this application
- ☒ Fees or Penalties Owed: ☐ No ☐ Yes - See page 1 of checklist

## SECTION 13 ATTACHMENTS

- ☒ Lease agreement or deed recorded easement, if the land where the treatment facility or the effluent disposal site are located are not owned by the applicant or co-applicant.
- ☒ An ORIGINAL or equivalent FULL-SIZED USGS 7.5-minute topographic map (8½ x 11 acceptable for amendment and renewal applications) is provided and labeled showing:
  - ☐ applicant's property boundary
  - ☒ treatment facility boundaries
  - ☒ point(s) of discharge (outfalls)
  - ☒ discharge route for three miles downstream or until it reaches a classified segment
  - ☐ effluent disposal site(s)
  - ☐ pond(s)
  - ☐ sludge disposal/land application site
  - ☒ one-mile radius

### All original or equivalent full-sized maps must show:

- ☐ Color map
- ☐ Clear contour lines
- ☐ Upper left corner must identify map as USGS
- ☐ Lower left corner, datum & project information
- ☐ Bottom, magnetic declination
- ☐ Bottom, must show scale
- ☐ Bottom, identify contour intervals
- ☐ Bottom, national map accuracy std.
- ☐ Bottom, show State of TX and quad location
- ☐ Around map, lat and long coordinates
- ☐ Bottom, quadrangle name
- ☐ Bottom, must identify map date

## SECTION 14 SIGNATURE PAGE

Note: The signature information below lists the proper signatories for the various entities and the current version of the application contains a paragraph referencing 30 TAC 305.44. The person signing the application verifies that he or she is authorized, under this rule, to sign the application. We must verify that the title meets the requirements or signatory authority has been delegated.

☒ Original Signature Page is required.

☒ Signature must be properly notarized – check that signature date and notarized date are the same.

### Applicant

### Co-Applicant

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> City: Elected official or principle executive officer of the city may be public works director.   |
| <input type="checkbox"/>            | <input type="checkbox"/> Individual: only the individual signs for himself/herself.  |
| <input type="checkbox"/>            | <input type="checkbox"/> Partnership: General Partner or exec officer  |
| <input type="checkbox"/>            | <input type="checkbox"/> Corporation: at least the level of vice president (CEO, Chairman of Board, Secretary)             |
| <input type="checkbox"/>            | <input type="checkbox"/> Utility District: at least the level of vice president, on Board of Directors or District Manager |
| <input type="checkbox"/>            | <input type="checkbox"/> Water Authority: Regional managers.   |
| <input type="checkbox"/>            | <input type="checkbox"/> School Districts: at least level of the Assistant Superintendent or board members.                |
| <input type="checkbox"/>            | <input type="checkbox"/> Governmental Agencies: Division Directors or Regional Directors.                                  |
| <input type="checkbox"/>            | <input type="checkbox"/> Trust: The trustee that has been identified in the trust agreement.                               |
| <input type="checkbox"/>            | <input type="checkbox"/> Other: _____  |

## SECTION 15. PLAIN LANGUAGE SUMMARY

- ☒ Plain Language Summary in English is provided for all applications. Verify the customer's name, facility name and location, type of facility, and flow are consistent with the application and notice.
- ☒ Plain Language Summary for any alternative language listed in Section 8, Item E, No. 5 is provided, if applicable.

## ADMIN REPORT 1.1 For All New or Major Amendment Applications

### SECTION 1. AFFECTED LANDOWNER INFORMATION

#### Landowner Map:

- ☐ The applicant's complete property boundaries are delineated which includes boundaries of contiguous property owned by the applicant.
- ☐ For domestic facilities, show the buffer zone and identify all of the landowners whose property is located within the buffer zone.
- ☐ The property boundaries of the landowners surrounding the applicant's property have been clearly delineated on the map.
- ☐ The location of the facility within applicant's property is shown.

#### For TPDES applications:

- ☐ The point(s) of discharge is clearly identified on the map and the discharge route(s) is highlighted.
- ☐ The scale of map is provided to measure one mile downstream **or** if discharge is into a lake, bay estuary, or affected by tides, ½ mile up & down stream is measured.
- ☐ The property boundaries of landowners adjacent to the discharge route(s) for one mile downstream from the point of discharge have been clearly delineated and the route is clearly delineated. **OR** If discharge is into a lake, bay estuary, or affected by tides, the property boundaries of landowners ½ mile up & downstream and those property owners across the lake along the shore line that fall within a ½ mile radius of the point of discharge are clearly delineated on the map.

#### For TLAP applications (i.e., irrigation, evaporation, etc.):

- ☐ The boundaries of the disposal site are clearly shown on the map.
- ☐ The boundaries of all landowners surrounding the disposal site are shown.

#### For all TPDES/TLAP applications:

- ☐ Cross-referenced list of landowners is provided.
- ☐ USB with Microsoft Word document formatted for mailing labels (Avery 5160) or four sets of mailing labels were provided.
- ☐ Source of landowners' info was provided.
- ☐ Provided response regarding permanent school fund land. Check GLO on contact sheet for Yes.

### SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

- ☒ SPIF is provided and complete/information matches application (TPDES only).
- ☒ SPIF Map is included or confirm USGS map is sufficient.

### TECHNICAL REPORT – MUNICIPAL/DOMESTIC APPLICATIONS

☒ **Minor Amendment *without* Renewal.** Review not required. Just make sure report is provided.

#### THE FOLLOWING ITEMS APPLY TO ALL APPLICATIONS:

- ☒ Technical Report 1.0, Section 1 – The permitted or proposed design flow is indicated. Flow for Final Phase is used to determine application fee and in the notice.
  - ☒ If flow indicated is greater than permitted, a major amendment is required.
  - ☒ If flow amount is less than permitted amount, confirm with applicant they want to reduce the flow.

- ☒ The permit authorizes irrigation/evaporation/subsurface disposal method (**Check current permit "Other Requirements" to see if authorized**) or if proposed, the information has been addressed in the technical report. Verify the acreage. If the acreage has changed from what is currently permitted, a major amendment is required.

The applicable worksheets must be completed:

- ☐ Worksheet 3.0 - required for land disposal of effluent
- ☐ Worksheet 3.1 - required for land disposal (new and major amendment only)
- ☐ Worksheet 3.2 - required for subsurface land disposal (new and major amendment only)
- ☐ Worksheet 3.3 - required for subsurface area drip dispersal systems (SADDs) (new and major amendment); may be required for renewal on a case-by-case basis.
- ☐ SADDs Applications: Compliance history items must be completed for SADDs disposal. When the application is administratively complete, a copy of the application and a transmittal letter must be sent to the State Department of Health Services. See the folder titled "SADDs" (under the Individual Permit Review folder) for a template of the letter.
- ☐ Worksheet 7.0 - required for SADD applications (new and major amendment only) - We do not review the form; we just make sure that it is submitted. If it is not submitted, request it in a NOD.

- ☒ Sludge disposal and/or land application is authorized in the permit on property owned or under applicant's control. (**Check current permit "Sludge Provisions" to see if authorized**)

- ☐ If facility is beneficially applying class B sludge on the same site as the facility, the applicant must submit the Beneficial Land Use of Sewage Sludge (Class B) Permit Application - Form No. 10451 (See Class B Sludge Permit checklist). The applicant must also submit the appropriate sludge application fee.
- ☐ If authorization is for sludge processing, storage, disposal, composting, marketing and distribution of sludge, sludge surface disposal, or sludge monofill or for temporary storage in sludge lagoons, the applicant must submit the Domestic Wastewater Permit Application: Sewage Sludge Technical Report - Form No. 10056.

Check for:

- ☐ required signatures (if applicable)
- ☐ site acreage
- ☐ application area acreage
- ☐ site boundaries shown on USGS map

**Notes:** If the applicant is disposing or land applying sludge on land owned or under their control, but it is not authorized in their permit or by any other TCEQ authorization, a major amendment is required.

If the application is for a new permit or major amendment, then verify the appropriate affected landowner requirements are met.



**WHEN APPLICATION IS NOT ADMINISTRATIVELY COMPLETE:**

- ☒ Complete NOD. See NOD Notes SOP.

**WHEN APPLICATION IS ADMINISTRATIVELY COMPLETE:**

**NORI not required for minor amendment.** Complete the Routing and Contact (list "n/a" for item about person responsible for publication of the notice) Blue sheets only.

- ☒ Complete NORI package. See NORI Notes SOP.
- ☒ Prepare SPIF forms (only for TPDES permits)
- ☒ checked application type
  - ☒ entered county name
  - ☒ entered administrative completeness date
  - ☒ ensured permit number is on form
  - ☒ \*check agency receiving SPIF
    - ☐ **Minor amendments** - ALL agencies **BUT** Texas Historical Commission and Army Corps of Engineers
    - ☒ **Renewals** - All agencies **BUT** Texas Historical Commission
    - ☐ **New and Major Amendments** - All agencies
- ☒ check that the segment number (if known) is entered in receiving water body information.
- ☒ On the accompanying map, delineate the discharge route in such a way that copies will reflect the highlighted discharge route.

**\*NOTE:** Copy of SPIFs not required for Houston - US Fish and Wildlife and Galveston-US Army Corps of Engineers. Reference SPIF Routing Sheet.

## **Admin Complete PARIS Entry and Other Reminders**

### **WQ Folder - Application Search**

#### **Application Summary Tab**

- ☒ Verify application Summary and Details. Update as needed.

#### **Admin Review Tab**

- ☒ Admin Review Begin Date
- ☒ Admin Complete Date
- ☒ All NOD Sent, Response Received, Response Complete Dates
- ☒ SPIF Required (Yes/No)
- ☒ NORI Required (Yes/No)

#### **Public Participation Tab -**

- ☒ NORI - Date notice is filed with CCO
- ☒ Public Notice Details - Notice Contact Information

### **CR Folder - RE Search**

**AI Detail Screen** - Verify AI Details and Physical Address. Update as needed.

**View Contact List** - Enter or Update Contact Information for these roles:

- ☒ Owner
- ☒ Applicant
- ☒ Technical
- ☒ Billing
- ☒ MER (TLAP only)
- ☒ Remove CN affiliation for MER contact (TLAP and TPDES)

#### **View EPA ID from AI List**

- ☒ View Customer List and verify CN is affiliated to EPA ID or add affiliation.

### **OTHER**

- ☒ Copy notice (and labels for New and Major Amendments), to H:\EVERYONEWQ\Water Quality App Team\Notice of Receipts
- ☒ Copy NORI and PLS to H:\EVERYONEWQ\WQD Notices
- ☒ Copy contact sheet to H:\EVERYONEWQ\Blue Contact Sheets
- ☒ SADDs - Send letter and copy of complete application to Dept. of Health Services
- ☒ Email TXDOT if discharge is to a state highway right-of-way or roadside ditch

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

### FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

**TCEQ USE ONLY:**Application type: ☒ Renewal ☐ Major Amendment ☐ Minor Amendment ☐ NewCounty: Galveston Segment Number: 2424Admin Complete Date: 8/23/2023

## Agency Receiving SPIF:

☐ Texas Historical Commission☐ U.S. Fish and Wildlife☐ Texas Parks and Wildlife Department☐ U.S. Army Corps of Engineers**This form applies to TPDES permit applications only.** (Instructions, Page 53)

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

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

The following applies to all applications:

1. Permittee: City Of Galveston

Permit No. WQ00 10688005EPA ID No. TX 0066125

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

Located at approximately 4.5 miles north of the San Luis Bridge and 1,900 feet West of the San Luis Bridge Pass Road (Farm to Market Road 3005) in Galveston County, Texas 77553

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

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

First and Last Name: Trino Pedraza

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

Title: Director of Public Works

Mailing Address: 823 Rosenberg

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

Phone No.: 409-797-3638 Ext.:  Fax No.: 409-356-4007

E-mail Address: Tpredraza@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.

NA

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 West Bay in Segment No. 2424 of the Bays and 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

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

N/A

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

Typical wastewater treatment plant site with treatment units, support buildings

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

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

N/A

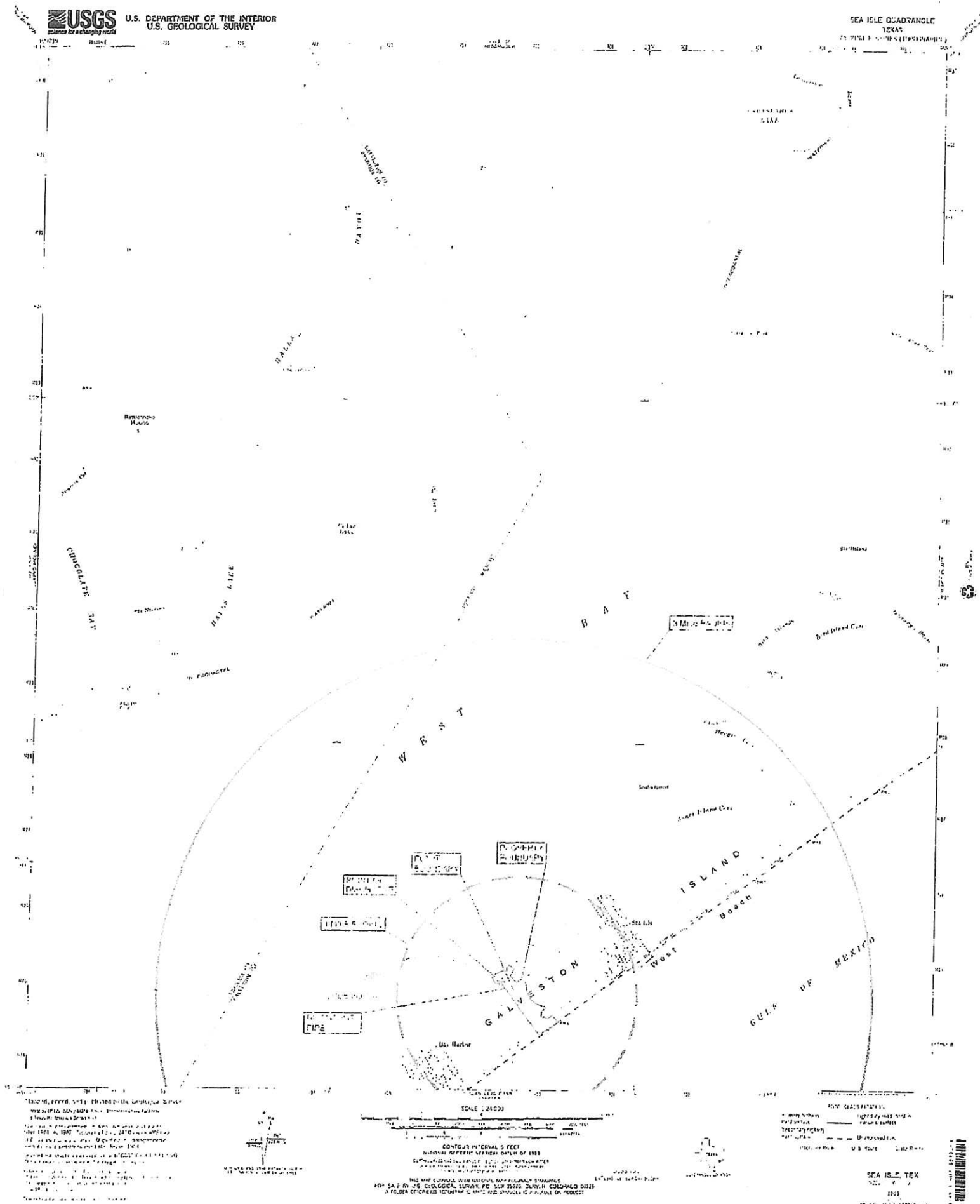
9. Provide a brief history of the property, and name of the architect/builder, if known.

N/A



SEA ISLE QUADRANGLE

THE VINYL ETHERS (PREFACE)



## Erwin Madrid

---

**From:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Sent:** Tuesday, August 22, 2023 1:06 PM  
**To:** Erwin Madrid  
**Subject:** RE: Application for Permit No. WQ0010688005 - Notice of Deficiency Letter  
**Attachments:** City of Galveston Terramar Beach Corrections for Permit Renewal.pdf

See attached, please let me know if there is anything else we need.

Thank you



**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](mailto:cdiaz@galvestontx.gov)

*Get social! Follow @cityofgalveston On Facebook, Twitter, & Instagram*

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**From:** Erwin Madrid <Erwin.Madrid@tceq.texas.gov>  
**Sent:** Monday, August 21, 2023 2:19 PM  
**To:** Cynthia Diaz <CDiaz@GalvestonTX.Gov>  
**Cc:** Trino Pedraza <TPedraza@GalvestonTX.Gov>  
**Subject:** Application for Permit No. WQ0010688005 - Notice of Deficiency Letter  
**Importance:** High

Dear applicant,

The attached Notice of Deficiency (NOD) letter dated **August 21, 2023**, requests additional information needed to declare the application administratively complete. Please email the complete response to my attention by **September 4, 2023**.

Please Note: the new alternative language requirements addressed in the attached letter include new items that can either be sent by email attachment or included on a USB drive if physical copies of the response are mailed.

Please let me know if you have any questions.

Regards,

Erwin Madrid  
Team Lead  
ARP Team | Water Quality Division  
512-239-2191  
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.

---

ATTENTION: The material in this e-mail is intended only for the use of the named recipient(s) only and may contain information that is confidential, privileged, and exempt from disclosure under applicable law. If you are not an intended recipient, or an agent responsible for delivering it to an intended recipient, you have received this email in error. If you are not the intended recipient, you are hereby notified that any review, use, dissemination, forwarding, printing, copying, disclosure or distribution of this communication is strictly prohibited and may be unlawful. If you believe this message has been sent to you in error, please notify the sender by replying to this transmission and immediately delete and/or destroy this email and its attachments and all copies thereof.



**To: T.C.E.Q**

**Attention: Mr. Erwin Madrid**

**From: City of Galveston**

**Re: Terramar Beach Wastewater Treatment Plant Permit Renewal**

**WQ0010688005**

- 1. Plain Language Summary**
- 2. NORI is correct**
- 3. Additional 400.00 Dollars will be sent**

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the blanks below to describe your facility and application. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

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

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

#### **DOMESTIC WASTEWATER**

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

City of Galveston (CN600241376 ) proposes to operate Terramar Wastewater Plant RN11614048. an Activated SBR System. The facility is located 3715 ½ Laguna Drive, in Galveston, Texas, Galveston County, Texas 77554.

This application is for Permit renewal. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (BOD)5, Total Suspended Solids (TSS), Ammonia Nitrogen (NH3N), Copper (CU), and Escherichia coli and other Pollutants as included in the Domestic

## INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example, a domestic permit might specify: city ISD, MUD, etc.
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., domestic wastewater.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

## Examples

### Example 1: Domestic Wastewater TPDES Renewal application

## Erwin Madrid

---

**From:** Erwin Madrid  
**Sent:** Monday, August 21, 2023 2:19 PM  
**To:** 'cdiaz@galvestontx.gov'  
**Cc:** 'tpedraza@galvestontx.gov'  
**Subject:** Application for Permit No. WQ0010688005 - Notice of Deficiency Letter  
**Attachments:** WQ0010688005\_NOD.pdf; Municipal TPDES and TLAP PLS Form.docx  
  
**Importance:** High

Dear applicant,

The attached Notice of Deficiency (NOD) letter dated **August 21, 2023**, requests additional information needed to declare the application administratively complete. Please email the complete response to my attention by **September 4, 2023**.

Please Note: the new alternative language requirements addressed in the attached letter include new items that can either be sent by email attachment or included on a USB drive if physical copies of the response are mailed.

Please let me know if you have any questions.

Regards,

Erwin Madrid  
Team Lead  
ARP Team | Water Quality Division  
512-239-2191  
Texas Commission on Environmental Quality



Please consider whether it is necessary to print this e-mail.

[ZIP Code™ by Address \(/zip-code-lookup.htm?byaddress\)](#)

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[Cities by ZIP Code™ \(/zip-code-lookup.htm?citybyzipcode\)](#)

[FAQs](#)

<https://www.usps.com/zip-code-lookup.htm>

# Look Up a ZIP Code™ [FAQs](#)

Go to

## ZIP Code™ by Address

**You entered:**

823 ROSENBERG ST  
GALVESTON TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again.** ([zip-code-lookup.htm?byaddress](#))

823 ROSENBERG ST  
GALVESTON TX 77550-2103

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[Edit and Search Again \(/zip-code-lookup.htm?byaddress\)](#)

Feedback

[Top](#)

## Central Registry Internal Reporting

Main Query Page

Program Area Search

## Additional ID Detail

Additional ID Program	WWPERMIT		Legacy System (Code)	(WQ)	
Additional ID	WQ0010688005	Status	ACTIVE	ID Type	PERMIT
Name	TERRAMAR WWTP			Sec. Addn Id	TX0066125, EPA ID
Physical Address	Not on file				
Description	LOCATED APPROX 4.5 MI N OF THE SAN LUIS BRIDGE AND 1900 FT W OF SAN LUIS PASS RD (FM 3005)				
County	GALVESTON	Region	REGION 12 - HOUSTON		
Nearest City		State	TX	Nearest Zip	77554
Latitude	29° 8 min 9 sec (29.135833)		Longitude	95° 3 min 27 sec (-95.0575)	

Map It

Copy Map It URL

Prior Names

## Industry Types

Classification System	Code	Name	Primary Flag
NAICS	221320	Sewage Treatment Facilities	Y
SIC	4952	Sewerage Systems	Y

Industry Type: (1-2 of 2 Records)

## Site Classifications

Program	Site Classification	Begin Date	End Date	CMS Min Freq Qty
WASTEWATER	DOMESTIC MAJOR	01/1/1800	12/31/3000	0

Site Classification: (1-1 of 1 Record)

## Customers

List All

CN Number	Name ▲	Role
CN600241376	CITY OF GALVESTON	OWN

Customers: (1-1 of 1 Record)

## Issued To

CN Number	Issued To Name	Start Date	'Issued To' History
CN600241376	CITY OF GALVESTON	09/13/1988	<a href="#">View</a>

Issued To: (1-1 of 1 Record)

## Regulated Entity

Reference Number	RN101613925	Name	TERRAMAR BEACH PLANT	Stand-Alone	N
Business Description	DOMESTIC				

## Location

Address	Not on file				
Description	3715 0.5 Laguna at Cuadro				
County	GALVESTON	Region	REGION 12 - HOUSTON		
Nearest City	GALVESTON	State	TX	Nearest Zip	77553
Latitude			Longitude		

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Statewide Links: [Texas.gov](#) | [Texas Homeland Security](#) | [TRAIL Statewide Archive](#) | [Texas Veterans Portal](#)



3715 1/2 laguna dr

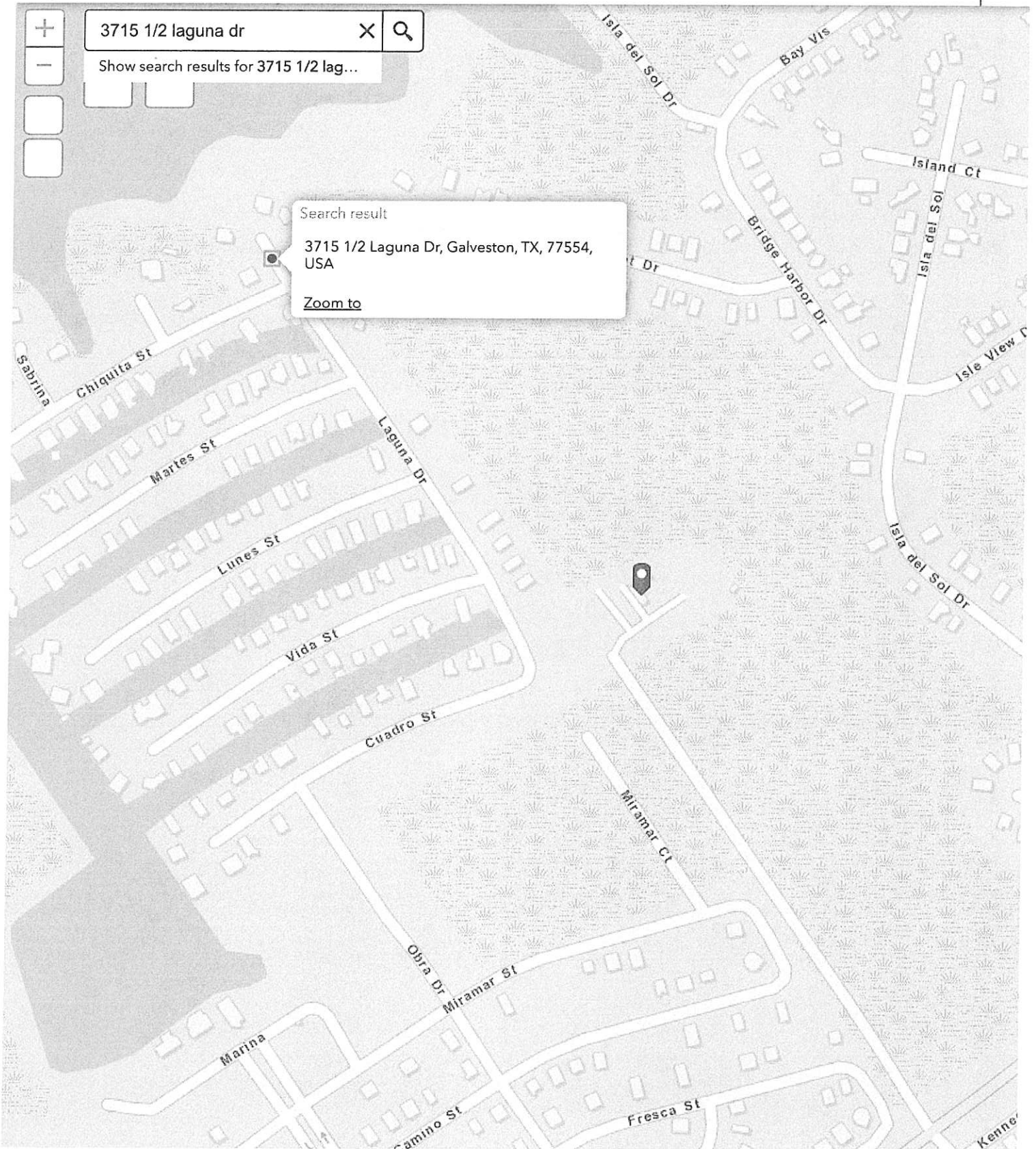


Show search results for 3715 1/2 lag...

Search result

3715 1/2 Laguna Dr, Galveston, TX, 77554, USA

[Zoom to](#)



300ft

-95.061 29.138 Degrees





3715 1/2 laguna dr



Show search results for 3715 1/2 lag...



100ft

-95.057 29.136 Degrees





## Water Quality Receipt Report

AUG-18-23 09:00 PM

### Paid In By: FOSSIL RIM WILDLIFE CENTER INC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M319212A	15250001	CK	29981		02-AUG-23	-\$300.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M319212B	15250001	CK	29981		02-AUG-23	-\$15.00
WATER QUALITY PMT								

### Paid In By: FRAN LUNA

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	PI00798173	603124	IFCE	582EA0005		01-DEC-22	-\$1200.00
PERMIT APPLICATION					14820			
NOTICE FEES WQP	PTGQ	PI00798174	603125	IFCE	582EA0005		01-DEC-22	-\$15.00
WATER QUALITY PMT					14820			

### Paid In By: FRANK SALINAS

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	PI00882615	644393	IFCE	582EA0005		01-JUN-23	-\$2000.00
PERMIT APPLICATION					52561			
NOTICE FEES WQP	PTGQ	PI00882616	644394	IFCE	582EA0005		01-JUN-23	-\$15.00
WATER QUALITY PMT					52561			

### Paid In By: FRANKLIN, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M316566A	10440001	CK	10705		16-MAY-23	-\$1200.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M316566B	10440001	CK	10705		16-MAY-23	-\$15.00
WATER QUALITY PMT								

### Paid In By: FRY FAMILY FARM LLC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M208270		CK	5042		30-DEC-21	-\$100.00
PERMIT APPLICATION								

### Paid In By: GALVESTON COUNTY FWSD 6

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M312239A	10879001	CK	126624		21-FEB-23	-\$1200.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M312239B	10879001	CK	126624		21-FEB-23	-\$15.00
WATER QUALITY PMT								

### Paid In By: GALVESTON, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M317505A	1068807	CK	46002666		13-JUN-23	-\$300.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M317505B	1068807	CK	46002666		13-JUN-23	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M318595A	10688005	CK	46002810		11-JUL-23	-\$1600.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M318595B	10688005	CK	46002810		11-JUL-23	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M319222A	10688001	CK	46002811		02-AUG-23	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M319222B	10688001	CK	46002811		02-AUG-23	-\$15.00
WATER QUALITY PMT								



## Basis 2 A/R Outstanding Past Due Transactions Detail Report By Customer Name

AUG-21-23 06:30 AM

Customer Name: CITY OF CASHION

Account #: 0620334

Debtcollpath Stage:

Calls:

WTR	WTR0062923	ONSITE COUNCIL FE	FY23Q	0334202304	30-JUN-23	31-JUL-23	\$10.00
Total of delinquent transactions (Account):							\$10.00
Total of delinquent transactions (Customer):							\$10.00

Customer Name: CITY OF IOWA PARK

Account #: 0620382

Debtcollpath Stage:

Calls:

WTR	WTR0062993	ONSITE COUNCIL FE	FY23Q	0382202305	30-JUN-23	31-JUL-23	\$10.00
Total of delinquent transactions (Account):							\$10.00
Total of delinquent transactions (Customer):							\$10.00

Customer Name: CITY OF LA VILLA

Account #: 22000494

Debtcollpath Stage: AGENCY:REFERRED

Calls:

RGR	RGR0056765	AWR CHARGE	AF	FY23	0827-000	31-OCT-22	30-NOV-22	\$21.08
RGR	RGR0056764	ASSESSMENT CHARGE		FY23	0827-000	31-OCT-22	30-NOV-22	\$50.00
RGR	SC00313871	LATE FEE - DEC 2022				10-DEC-22	10-DEC-22	\$3.55
RGR	SC00316923	LATE FEE - JAN 2023				10-JAN-23	10-JAN-23	\$3.55
RGR	SC00320626	LATE FEE - FEB 2023				10-FEB-23	10-FEB-23	\$ .59
RGR	RGR0056764	COLLECTION COST RECOVERY				03-MAR-23	03-MAR-23	\$12.50
RGR	RGR0056765	COLLECTION COST RECOVERY				03-MAR-23	03-MAR-23	\$5.27
RGR	SC00324050	LATE FEE - MAR 2023				10-MAR-23	10-MAR-23	\$ .59
RGR	SC00326472	LATE FEE - APR 2023				10-APR-23	10-APR-23	\$ .59
RGR	SC00328714	LATE FEE - MAY 2023				10-MAY-23	10-MAY-23	\$ .59
RGR	SC00329943	LATE FEE - JUN 2023				10-JUN-23	10-JUN-23	\$ .59
RGR	SC00330959	LATE FEE - JUL 2023				10-JUL-23	10-JUL-23	\$ .59
RGR	SC00331891	LATE FEE - AUG 2023				10-AUG-23	10-AUG-23	\$ .59

Total of delinquent transactions (Account): \$100.08

Account #: 23006528

Debtcollpath Stage: AGENCY:REFERRED

Calls:

CWQ	CWQ0071617	PERMIT		FY23	0014781002	31-OCT-22	30-NOV-22	\$1250.00
CWQ	SC00314625	LATE FEE - DEC 2022				10-DEC-22	10-DEC-22	\$62.50
CWQ	SC00318466	LATE FEE - JAN 2023				10-JAN-23	10-JAN-23	\$62.50
CWQ	SC00321530	LATE FEE - FEB 2023				10-FEB-23	10-FEB-23	\$10.62
CWQ	CWQ0071617	COLLECTION COST RECOVERY				03-MAR-23	03-MAR-23	\$312.50
CWQ	SC00324697	LATE FEE - MAR 2023				10-MAR-23	10-MAR-23	\$10.62
CWQ	SC00326932	LATE FEE - APR 2023				10-APR-23	10-APR-23	\$10.62
CWQ	SC00329040	LATE FEE - MAY 2023				10-MAY-23	10-MAY-23	\$10.62
CWQ	SC00330231	LATE FEE - JUN 2023				10-JUN-23	10-JUN-23	\$10.62
CWQ	SC00331220	LATE FEE - JUL 2023				10-JUL-23	10-JUL-23	\$10.62
CWQ	SC00332121	LATE FEE - AUG 2023				10-AUG-23	10-AUG-23	\$10.62

Total of delinquent transactions (Account): \$1761.84

Total of delinquent transactions (Customer): \$1861.92

Customer Name: CITY OF OVERTON

Account #: 23605096

Debtcollpath Stage:

Calls: PPLAN

WQV	WQV0024827	ADMIN PENALTY		FY15	090452MWDE	31-MAR-15	30-APR-15	\$1926.62
Total of delinquent transactions (Account):							\$1926.62	
Total of delinquent transactions (Customer):							\$1926.62	

Customer Name: CITY OF TURKEY

Account #: 23002241

Debtcollpath Stage:

Calls:

CWQ	SC00326528	LATE FEE - APR 2023				10-APR-23	10-APR-23	\$10.62
CWQ	SC00328770	LATE FEE - MAY 2023				10-MAY-23	10-MAY-23	\$10.62

Total of delinquent transactions (Account): \$21.24

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Galveston, TX (.gov)  
<https://www.galvestontx.gov>

## Galveston, TX - Official Website | Official Website

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### City Hall

City Attorney's Office; City Manager's Office; City Secretary's Office ...

### Departments

Departments · Animal Control · City Attorney · City Auditor · City ...

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The Galveston Island Beach Patrol (GIBP) is certified as an ...

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Rating: 3 · 4 reviews

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## Galveston City Hall

[Website](#)[Directions](#)[Save](#)

1.2

9 Google reviews


City government office in Galveston, Texas

**Address:** 823 Rosenberg St, Galveston, TX 77550**Hours:** Open · Closes 5PM ▾**Phone:** (409) 797-3500[Suggest an edit](#) · [Own this business?](#)




### Questions & answers

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City of Galveston, Texas - Government, Galveston, Texas. 48622 likes · 96 talking about  
... The City of Galveston is an island... ... Galveston City Council ...

 County Office  
<https://www.countyoffice.org/.../Galveston>

Galveston City Hall - Galveston, TX (Address, Phone, and ...

Address, Phone Number, and Hours for Galveston City Hall, a Town & City Hall, at 25th Street,  
Galveston TX. Name: Galveston City Hall; Address: 823 25th Street, ...

 Texas State Directory  
<https://www.txdirectory.com/online/city/detail>


Cities: Galveston - Texas State Directory Online

Office	Office Holder	(409) Phone / Fax
Mayor	Craig Brown	(409) 797-3510
Council Member	Michael "Mikey" Bouvier	(409) 797-3510
Council Member	David Collins	(409) 797-3510
View 9 more rows		

 Mapcarta  
<https://mapcarta.com/North America/USA/Texas>

Galveston City Hall Map - Texas

Galveston City Hall is a town hall in Texas. Galveston City Hall is situated nearby to Texas  
Heroes Monument and Saengerfest Park. Mapcarta, the open map.

 Galveston County, TX (.gov)  
<https://www.galvestoncountytexas.gov>

Galveston County, TX | Home

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- city of galveston jobs
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- galveston island
- galveston beach
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More results ▾



# Water Quality Receipt Report

AUG-16-23 09:00 PM

## Paid In By: GODLEY, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M121958A	14887001	CK	31120		31-AUG-21	-\$1600.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M121958B	14887001	CK	31120		31-AUG-21	-\$50.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M214606A		CK	31533		18-MAR-22	-\$2000.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M214606B		CK	31533		18-MAR-22	-\$50.00
WATER QUALITY PMT								

## Paid In By: GOFF CR HOLDINGS LLC

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M317179A		CK	1011		05-JUN-23	-\$800.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M317179B		CK	1011		05-JUN-23	-\$50.00
WATER QUALITY PMT								

## Paid In By: GOLDEN, WARNER

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M213541A	03999000	CK	520		01-MAR-22	-\$300.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M213541B	03999000	CK	520		01-MAR-22	-\$15.00
WATER QUALITY PMT								

## Paid In By: GOODLOW, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M210862A	12616001	CK	2967		28-JAN-22	-\$500.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M210862B	12616001	CK	2967		28-JAN-22	-\$15.00
WATER QUALITY PMT								

## Paid In By: GOODRICH, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M200402A	12711001	CK	2313		15-SEP-21	-\$500.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M200402B	12711001	CK	2313		15-SEP-21	-\$15.00
WATER QUALITY PMT								

## Paid In By: GOODWIN, EMILY

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M207837	03751000	CK	1545		28-DEC-21	-\$100.00
PERMIT APPLICATION								

## Paid In By: GORDON, CITY OF

<u>Acct.Name</u>	<u>Fee</u>	<u>Endorse. #</u>	<u>Ref#2</u>	<u>PayTyp</u>	<u>Check#</u>	<u>Card#</u>	<u>Tran.Date</u>	<u>Rec.Amnt</u>
WATER QUALITY	WQP	M318153A	14837002	CK	14918		29-JUN-23	-\$800.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M318153B	14837002	CK	14918		29-JUN-23	-\$15.00
WATER QUALITY PMT								
WATER QUALITY	WQP	M319323A	14837001	CK	14919		03-AUG-23	-\$500.00
PERMIT APPLICATION								
NOTICE FEES WQP	PTGQ	M319323B	14837001	CK	14919		03-AUG-23	-\$15.00
WATER QUALITY PMT								

## ZIP Code™ by Address

You entered:

3715 1/2 LAGUNA DRIVE  
GALVESTON TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again.**

3715 1/2 LAGUNA DR  
GALVESTON TX 77554-



Look Up Another ZIP Code™

Edit and Search Again

# Look Up a ZIP Code™

## ZIP Code™ by Address

You entered:

823 ROSENBERG STREET  
GALVESTON TX

If more than one address matches the information provided, try narrowing your search by entering a street address and, if applicable, a unit number. **Edit and search again.**

823 ROSENBERG ST  
GALVESTON TX 77550-2103



[Look Up Another ZIP Code™](#)

[Edit and Search Again](#)





# INDUSTRIAL/MUNICIPAL APPLICATIONS ROUTE SHEET

New \_\_\_\_\_

Major Amend \_\_\_\_\_

Minor Amend \_\_\_\_\_

Renewal X

Major Facility X

Application Reviewer ✓ Technical Reviewer \_\_\_\_\_

Final Flow ≥ 1MGD / 1.0

DATE APPLICATION RECEIVED 7/11/2023

PERMIT NUMBER WQ0010638005

PRE PREVIEW BY STANDARDS (RWA) \_\_\_\_\_  
Route original application of new and major amendments, discharge only. The original application must be returned to the applications team within 4 hours of receipt.

N/A X

PRE PREVIEW BY GROUNDWATER \_\_\_\_\_  
TLAP Only: Route copy of new and major amend.

N/A X

PRE TECH REVIEW REQUIRED \_\_\_\_\_  
Route copy of new, major amendments, major facilities or final flow ≥ 1MGD for Municipal.

N/A \_\_\_\_\_

COASTAL ZONE DETERMINATION \_\_\_\_\_  
Route copy of new application or major amendment when the facility is located in the noted county

N/A X

COMMENTS ARE DUE TO APPLICATIONS TEAM BY CLOSING ON \_\_\_\_\_

PRE TECH REVIEW PERFORMED BY \_\_\_\_\_

COMMENTS SHOULD BE PROVIDED TO THE APPLICATIONS TEAM BY \_\_\_\_\_

## Coastal Zone Determination

(To Be Verified Upon Receipt Of The Application)

Permit Number WQ0010688005 County GALVESTON

### Indicate Type of Application:

☒ Renewal ☐ Minor Amendment ☐ Major Amendment

Is the facility on the Coastal Zone list?

☒ YES (Coastal Zone statement will be included in the "Notice of Draft Permit") (If a major amendment - statement will be included in the "Notice of Receipt")

☐ NO (Do not include statement in any notice)

☐ New ☐ Major Amendment

Is the facility located in one of the following counties?

<input type="checkbox"/> Aransas	<input type="checkbox"/> Galveston	<input type="checkbox"/> Kleberg	<input type="checkbox"/> San Patricio
<input type="checkbox"/> Brazoria	<input type="checkbox"/> Harris	<input type="checkbox"/> Matagorda	<input type="checkbox"/> Victoria
<input type="checkbox"/> Calhoun	<input type="checkbox"/> Jackson	<input type="checkbox"/> Nueces	<input type="checkbox"/> Willacy
<input type="checkbox"/> Cameron	<input type="checkbox"/> Jefferson	<input type="checkbox"/> Orange	
<input type="checkbox"/> Chambers	<input type="checkbox"/> Kenedy	<input type="checkbox"/> Refugio	

☐ YES Send the application to Water Quality Assessment Team for Coastal Zone Determination.

☐ NO No further review needed (Do not include statement in any notice)

### Water Quality Assessment Section's determination:

Is the discharge in the Coastal Zone?

☐ YES Coastal Zone statement shall be included in the Admin Complete Notice

☐ NO Do not include statement in the Admin Complete Notice

Return to Applications Team by \_\_\_\_\_

# INDUSTRIAL/MUNICIPAL APPLICATIONS ROUTE SHEET

New \_\_\_\_\_

Major Amend \_\_\_\_\_

Minor Amend \_\_\_\_\_

Renewal X

Major Facility X

Application Reviewer \_\_\_\_\_ Technical Reviewer ✓

Final Flow > 1MGD 1.0

DATE APPLICATION RECEIVED 7/11/2023

PERMIT NUMBER WQ00/0688005

PRE PREVIEW BY STANDARDS (RWA) \_\_\_\_\_

Route original application of new and major amendments, discharge only. The original application must be returned to the applications team within 4 hours of receipt.

N/A X

PRE PREVIEW BY GROUNDWATER  
TLAP Only: Route copy of new and major amend.

N/A X

PRE TECH REVIEW REQUIRED  
Route copy of new, major amendments, major facilities or final flow > 1MGD for Municipal.

N/A X

COASTAL ZONE DETERMINATION  
Route copy of new application or major amendment when the facility is located in the noted county

N/A X

COMMENTS ARE DUE TO APPLICATIONS TEAM BY CLOSING ON \_\_\_\_\_

PRE TECH REVIEW PERFORMED BY \_\_\_\_\_

THE ATTACHMENT SHOULD BE PROVIDED TO THE APPLICATIONS TEAM AT THE END OF THE 5<sup>TH</sup> WORKING DAY