Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. Second notice (NAPD-Notice of Preliminary Decision)
   - English
   - Alternative Language (Spanish)
4. Application materials
5. Draft permit
6. Technical summary or fact sheet

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
   - Inglés
   - Idioma alternativo (español)
4. Materiales de la solicitud
5. Proyecto de permiso
6. Resumen técnico u hoja de datos

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The Public Utilities Board of the City of Brownsville, Texas (CN601658651) operates the Robindale Wastewater Treatment Plant (RN102180205), a domestic wastewater treatment facility authorized to treat and discharge up to 14.5 million of gallons per day (MGD) under the TPDES permit no. WQ0010397005. The facility is located at 3208 Robindale Rd., in Brownsville, Cameron County, Texas 78526. The Public Utilities Board of the City of Brownsville, Texas is herein applying to renew the Texas Pollutant Discharge Elimination System (TPDES) permit to authorize the discharge of treated wastewater at a volume not to exceed 14.5 MGD. The discharge route is from the plant site to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay and Estuaries.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (5-day), Total Suspended Solids, Ammonia Nitrogen and Escherichia coli (E-coli).

Domestic wastewater is treated by on-site screening and grit removal, then by utilizing a Modified Ludzack-Ettinger (MLE) process (anoxic and aerobic with internal nitrate cycle) of activated sludge, turbo blowers with auto dissolved oxygen control, secondary settling, ultra-violet system for disinfection, and effluent cascade aeration system prior to effluent discharge.

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

AGUAS RESIDUALES DOMESTICAS **/AGUAS PLUVIALES**

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

El Public Utilities Board de la Ciudad de Brownsville, Texas (CN601658651) opera la Planta Robindale de Tratamiento de Drenaje (RN102180205), una planta tratadora de drenaje domestica que está autorizada para tratar y descargar hasta 14.5 millones de galones por día (MGD) bajo el permiso TPDES no. WQ0010397005. La instalación está ubicada en el 3208 Robindale Rd., en Brownsville, Condado de Cameron, Texas 78526. El Public Utilities Board de la Ciudad de Brownsville, Texas por medio de la presente está aplicando para renovar el permiso de Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de agua de drenaje tratada en un volumen no excedente a los 14.5 MGD. La ruta de descarga es del sitio de la planta a el Canal de Drenaje no. 1 del Condado de Cameron; de allí a el Lago San Martin; de allí a el Canal de Navegación de Brownsville en el segmento 2494 de la Bahia y Estuarios.

Se espera que las descargas de la instalación contengan Demanda Bioquímica de Oxígeno de Carbono (CBOD), Solidos Suspendidos Totales, Nitrógeno de Amoniaco y Escherichia coli (E-coli). EL agua de drenaje domestico. está tratado por filtración en sitio, eliminación de arenillas y lodos, proceso Modificado Ludzack-Ettinger (MLE) (anóxico y aeróbico con ciclos internos de nitrato) de lodos activados, turbo-sopladores con control automático para oxígeno disuelto, sedimentación secundaria, sistema ultravioleta para desinfección, y sistema de aireación de cascada previo a la descarga del efluente.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010397005

APPLICATION. Public Utilities Board of the City of Brownsville, Texas, P.O. Box 3270, Brownsville, Texas 78523, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010397005 (EPA I.D. No. TX0071340) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 14,500,000 gallons per day. The domestic wastewater treatment facility is located at 3208 Robindale Road, near the city of Brownsville, in Cameron County, Texas 78526. The discharge route is from the plant site to a Cameron County Drainage Ditch, thence to San Martin Lake, thence to the Brownsville Ship Channel. TCEQ received this application on May 12, 2025. The permit application will be available for viewing and copying at Brownsville Public Library-Main Branch, Front Desk, 2600 Central Boulevard, Brownsville, in Cameron County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.454166,25.955555&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a

public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

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

Further information may also be obtained from Public Utilities Board of the City of Brownsville, Texas at the address stated above or by calling Mr. Jose Lechuga, Lead Environmental Compliance Specialist, at 956-983-6518.

Issuance Date: June 6, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010397005

SOLICITUD. El Public Utilities Board de la Ciudad de Brownsville, Texas, ubicado en P.O. Box 3270, Brownsville, Texas 78523, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010397005 (EPA I.D. No. TX 0071340) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio anual de 14,500,000 galones por día. La planta está ubicada en el 3208 Robindale Road., cerca de la ciudad de Brownsville en el Condado de Cameron, Texas 78526. La ruta de descarga es del sitio de la planta a el Canal de Drenaje del Condado de Cameron, de allí a el Lago San Martin, de allí a el Canal de Navegacion de Brownsville en el segmento 2494 de la Bahia y Estuarios. La TCEQ recibió esta solicitud el 12 de mayo de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la recepción de la Librería Publica de Brownsville (Main Branch) ubicada en el 2600 Central Boulevard, Brownsville, en el Condado de Cameron, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.454166,25.955555&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar

la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia

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

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

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

También se puede obtener información adicional del Public Utilities Board de la Ciudad de Brownsville, Texas en la dirección indicada arriba o llamando al Sr. Jose Lechuga, REM, Lead Environmental Compliance Specialist al (956) 983-6518.

Fecha de emisión: el 6 de junio de 2025

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010397005

APPLICATION AND PRELIMINARY DECISION. Public Utilities Board of the City of Brownsville, Texas, P.O. Box 3270, Brownsville, Texas 78523, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010397005, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 14,500,000 gallons per day. TCEQ received this application on May 12, 2025.

The facility is located at 3208 Robindale Road, in Cameron County, Texas 78526. The treated effluent is discharged to Cameron County Drainage Ditch (CCDD) No. 1, thence to San Martin Lake, thence to the Brownsville Ship Channel in Segment No. 2494 of the Bays and Estuaries. The unclassified receiving water use is minimal aquatic life use for CCDD No. 1. The designated uses for Segment No. 2494 are non-primary contact recreation, exceptional aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.454166,25.955555&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 Brownsville Public Library-Main Branch, Front Desk, 2600 Central Boulevard, Brownsville, in Cameron County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Public Utilities Board of the City of Brownsville, Texas at the address stated above or by calling Mr. Jose Lechuga, Lead Environmental Compliance Specialist, at 956-983-6518.

Issuance Date: October 20, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

RENOVACIÓN

PERMISO NO. WQ 0010397005

SOLICITUD Y DECISIÓN PRELIMINAR. Public Utilities de la Ciudad de Brownsville, Texas, P.O. Box 3270, Brownsville, Texas 78526 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar al permiso de Eliminacion de Descargas de Contaminantes de Texas (TPDES) No. WQ0010397005, la descarga de aguas residuales domesticas tratadas en un promedio anual que no excede los 14,500,000 galones por día. La TCEQ recibió esta solicitud el 12 de Mayo de 2025.

La planta está ubicada en el 3208 Robindale Road en el Condado de Cameron, Texas. El efluente tratado es descargado al Canal de Drenes No. 1 del Condado de Cameron (CCDD), de allí al Lago San Martin, de allí al Canal de Navegación de Brownsville en el Segmento No. 2494 de la Bahia y Estuarios. Los usos no clasificados de las aguas receptoras son de limitados usos de la vida acuática para el CCDD No. 1. Los usos designados para el Segmento No. 2494 son de uso excepcional de vida acuática y recreación sin contacto.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en la Librería Publica de Brownsville ubicada en el 2600 Central Boulevard, Brownsville, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.454166,25.955555&level=18

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

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

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

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

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

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

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

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

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

También se puede obtener información adicional del Public Utilities Board de la Cuidad de Brownsville, Texas a la dirección indicada arriba o llamando al Sr. Jose Lechuga, Lead Environmental Specialist al 956-983-6518.

Fecha de emisión 20 de octubre de 2025

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT RENEWAL APPLICATION

ROBINDALE WASTEWATER TREATMENT PLANT

PERMIT No. WQ0010397005

EPA ID No. TX0071340

BROWNSVILLE
PUBLIC UTILITIES BOARD

ORIGINAL

Prepared By

Environmental Services

April 2025

BROWNSVILLE
PUBLIC UTILITIES BOARD

May 12, 2025

Executive Director
Applications Review and Processing Team (MC148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Re: Application to Renew Permit No. WQ0010397005 (EPA ID No. TX0071340)
Public Utilities Board of the City of Brownsville, Texas (CN601658651; RN102180205)

Dear Regulatory Agency,

The Public Utilities Board of the City of Brownsville, Texas hereby submits the permit renewal application package, including one (1) original and two (2) copies, for the TPDES permit no. WQ0010397005. The Robindale Wastewater Treatment Plant is a 14.5 MGD permitted municipal discharger.

If you or any members of your staff have any questions or required additional information, please feel free to contact me at (956) 983-6518 or via email at JLechuga@brownsville-pub.com.

Sincerely,

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist

Enclosure

cc: Marilyn Gilbert, General Manager and CEO
Albert Gomez, Jr., PE, REM, Director of Environmental Services
Judy Adams, Division Manager
Louis Bennett, Wastewater Treatment Manager
File

Brownsville Public Utilities Board
1425 Robinhood Drive
P.O. Box 3270
Brownsville, TX 78521

www.brownsville-pub.com
(956) 983-6100
Fax: (956) 982-6289

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Public Utilities Board of the City of Brownsville, Texas

PERMIT NUMBER (If new, leave blank): WQ00 10397005

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: NA

Check/Money Order Amount: NA

Name Printed on Check: NA

EPAY — Voucher Number: 765734 & 765735

Copy of Payment Voucher enclosed? Yes ☒ ATTACHMENT A

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: NA

f. For existing permits:

Permit Number: WQ00 10397005

EPA I.D. (TPDES only): TX 0071340

Expiration Date: December 18, 2025

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

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

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

Public Utilities Board of the City of Brownsville, Texas

(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: 601658651

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

Prefix: Mr. Last Name, First Name: Gomez Jr., Albert

Title: Director of Environmental Services Credential: P.E., REM

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

NA

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

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

CN: NA

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: NA Last Name, First Name: NA

Title: NA Credential: NA

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

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 B

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Bennett, Louis

Title: Wastewater Treatment Manager Credential: NA

Organization Name: Public Utilities Board of the City of Brownsville

Mailing Address: 3208 Robindale Rd. City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6505 E-mail Address: LBennett@brownsville-pub.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Gomez Jr., Albert

Title: Director of Environmental Services Credential: P.E., REM

Organization Name: Public Utilities Board of the City of Brownsville

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6251 E-mail Address: AGomez@brownsville-pub.com

B. Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Capistran Jr., Ramiro

Title: Environmental Manager Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: RCapistran@brownsville-pub.com

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

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

Prefix: Mr. Last Name, First Name: Capistran Jr., Ramiro

Title: Environmental Manager Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: RCapistran@brownsville-pub.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

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: Brownsville Public Library – Main Branch

Location within the building: Front Desk

Physical Address of Building: 2600 Central Blvd.

City: Brownsville County: Cameron

Contact (Last Name, First Name): Front Desk Clerk

Phone No.: (956) 548-1055 Ext.: NA

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: ATTACHMENT C

G. Public Involvement Plan Form

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

Attachment: NA

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102180205

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):

Robindale Wastewater Treatment Plant

C. Owner of treatment facility: Public Utilities Board of the City of Brownsville, Texas

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

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

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: Rcapistran@brownsville-pub.com

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: NA

E. Owner of effluent disposal site:

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: NA

Mailing Address: NA City, State, Zip Code: NA

Phone No.: NA E-mail Address: NA

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: NA

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

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: NA

Mailing Address: NA City, State, Zip Code: NA

Phone No.: NA E-mail Address: NA

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: NA

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

NA

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:

NA

City nearest the outfall(s): Brownsville

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

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: NA

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: Cameron

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

NA

B. City nearest the disposal site: NA

C. County in which the disposal site is located: NA

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

NA

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

NA

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: NA

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: NA

Amount past due: NA

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: NA

Amount past due: NA

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: USGS Map – ATTACHMENT D

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010397005

Applicant: Public Utilities Board of the City of Brownsville, Texas

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): Albert Gomez, Jr., P.E., REM

Signatory title: Director of Environmental Services

Signature: Albert Gomez Jr. Date: 5/7/25

(Use blue ink)

Subscribed and Sworn to before me by the said Albert Gomez Jr.

on this 7th day of May, 20 25.

My commission expires on the 5th day of April, 20 28.

Nelda G. Lopez

Notary Public

NELDA G. LOPEZ [SEAL]
Notary Public, State of Texas
Comm. Expires 04-05-2028
Notary ID 2851140

Cameron

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

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

☐ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: NA

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

☐ Yes ☐ No

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

NA

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☒ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: ATTACHMENT G

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): NA

Driver's License or State Identification Number: NA

Date of Birth: NA

Mailing Address: NA

City, State, and Zip Code: NA

Phone Number: NA Fax Number: NA

E-mail Address: NA

CN: NA

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

Administrative Report 1.0

ATTACHMENT A (page 2)

Application Fee – Payment Voucher & Receipt

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	765734
Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
Voucher Amount:	$2,000.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL
ePay Actor:	JOSE LECHUGA

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

Site Information

Site Name:	BROWNSVILLE PUB ROBINDALE WASTEWATER TREATMENT PLANT
Site Address:	3208 ROBINDALE ROAD, BROWNSVILLE, TX 78526
Site Location:	THE ROBINDALE WWTP IS LOCATED AT 3208 ROBINDALE ROAD IN BROWNSVILLE TEXAS

Customer Information

Customer Name:	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
Customer Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
State Tax ID:	32054740520

Other Information

Program Area ID:	0010397005
Comments:	TPDES Permit Renewal Application - WQ0010397005

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	765735
Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	JOSE LECHUGA

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

TCEQ ePay Receipt

Transaction Information

Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
ePay Actor:	JOSE LECHUGA
TCEQ Amount:	$2,015.00
Texas.gov Price::	$2,060.59*

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

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

Cart Items

Voucher	Fee Description	AR Number	Amount
765734	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		$2,000.00
765735	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	**$2,015.00**

Administrative Report 1.0

ATTACHMENT B (page 4)

TCEQ Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601658651		RN 102180205

SECTION II: Customer Information

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

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

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

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

Public Utilities Board of the City of Brownsville, Texas

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0022602101	32054740520	74-2137823	60-634-7037

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

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

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address:								
	P.O. Box 3270							
	City	Brownsville	State	TX	ZIP	78523	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	JLechuga@brownsville-pub.com

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

(956) 983-6518		(956) 983-6260

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.)*

Robindale Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	3208 Robindale Rd.							
	City	Brownsville	**State**	TX	**ZIP**	78526	**ZIP + 4**	
24. County	Cameron							

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

25. Description to Physical Location:	NA				
26. Nearest City			**State**		**Nearest ZIP Code**
Brownsville			TX		78526

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:	25°57'20.693"		**28. Longitude (W) In Decimal:**	-97°27'16.463"	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
25	57	20.693	-97	27	16.463

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221310	

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

Domestic Wastewater Treatment Facility

34. Mailing Address:	**P.O. Box 3270**							
	City	**Brownsville**	**State**	**TX**	**ZIP**	**78523**	**ZIP + 4**	
35. E-Mail Address:	**JLechuga@brownsville-pub.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(956) 983-6518		**(956) 983-6260**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☒ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
WQ0010397005	TXR05AL36			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010397005			

SECTION IV: Preparer Information

40. Name:	Jose E. Lechuga	41. Title:	Lead Env. Compliance Specialist

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(956) 983-6518		(956) 983-6260	JLechuga@brownsville-pub.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Public Utilities Board of the City of Brownsville, Texas	Job Title:	Director of Environmental Services
Name *(In Print)*:	Albert Gomez Jr., P.E., REM	Phone:	(956) 983- 6251
Signature:	Albert Gomez	Date:	5/7/25

Administrative Report 1.0

ATTACHMENT C (page 7)

Plain Language Summary Form

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The Public Utilities Board of the City of Brownsville, Texas (CN601658951) operates the Robindale Wastewater Treatment Plant (RN102180205), a domestic wastewater treatment facility authorized to treat and discharge up to 14.5 million of gallons per day (MGD) under TPDES permit no. WQ0010397005. The facility is located at 3208 Robindale Rd., in Brownsville, Cameron County, Texas 78526. The Public Utilities Board of the City of Brownsville, Texas is herein applying to renew the Texas Pollutant Discharge Elimination System (TPDES) permit to authorize the discharge of treated wastewater at a volume not to exceed 14.5 MGD. The discharge route is from the plant site to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay and Estuaries.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (5-day), Total Suspended Solids, Ammonia Nitrogen and Escherichia coli (E-coli). Domestic wastewater is treated by on-site screening and grit removal, then by utilizing a Modified Ludzack-Ettinger (MLE) process (anoxic and aerobic with internal nitrate cycle) of activated sludge, turbo blowers with auto dissolved oxygen control, secondary settling, ultra-violet system for disinfection, and effluent cascade aeration system prior to effluent discharge.

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

AGUAS RESIDUALES DOMESTICAS **/AGUAS PLUVIALES**

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

El Public Utilities Board de la Ciudad de Brownsville, Texas (CN601658951)) opera la Planta Robindale de Tratamiento de Drenaje (RN102180205), una planta tratadora de drenaje domestic que esta autorizada para tratar y descargar hasta 14.5 millones de galones por dia (MGD) bajo el permiso TPDES no. WQ0010397005. La instalación está ubicada en el 3208 Robindale Rd., en Brownsville, Condado de Cameron, Texas 78526. El Public Utilities Board de la Ciudad de Brownsville, Texas por medio de la presente esta aplicando para renovar el permiso de Sistema de Eliminacion de Descargas de Contaminantes de Texas (TPDES) para autorizar la decarga de agua de drenaje tratada en un volume no excedente a los 12.8 MGD. La ruta de descarga es del sitio de la planta a el Canal de Drenaje no. 1 del Condado de Cameron; de alli a el Lago San Martin; de alli a el Canal de Navegacion de Brownsville en el segmento 2494 de la Bahia y Estuarios.

Se espera que las descargas de la instalación contengan contengan Demanda Bioquímica de Oxígeno de Carbono (CBOD), Solidos Suspendidos Totales, Nitrogeno de Amoniaco y Escherichia coli (E-coli). El agua de drenaje domestico. está tratado por filtracion en sitio, eliminacion de arenillas y lodos, proceso Modificado Ludzack-Ettinger (MLE) (anoxico and aerobico con ciclos internos de nitrato) de lodos activados, turbo sopladores con control automatic para oxigeno disuelto, sedimentacion secundaria, sistema ultra-violeta para desinfeccion, y sistema de aereacion de cascada previo a la descarga del efluente.

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.
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, or 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., stormwater, process wastewater, once through cooling water, etc.)
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.

Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example

Individual Industrial Wastewater Application

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Supplemental Permit Information Form

(Separate document with attachments as required by the TCEQ Memorandum of Agreement with EPA)

Robindale Wastewater Treatment Plant Permit No. WQ0010397005;
EPA ID No. TX0071340

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Public Utilities Board of the City of Brownsville, Texas

   Permit No. WQ00 10397005 EPA ID No. TX 0071340

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

   3208 Robindale Rd., Brownsville, Cameron

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: Louis Bennett

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

Title: Wastewater Treatment Manager

Mailing Address: 3208 Robindale Rd.

City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6518 Ext.: NA Fax No.: (956) 574-6114

E-mail Address: LBennett@brownsville-pub.com

2. List the county in which the facility is located: Cameron
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.

From the Robindale Wastewater Treatment Plant to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay 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

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

NA

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

NA

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

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

NA

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

NA

Administrative Report 1.0

ATTACHMENT G1 (SPIF page 2)

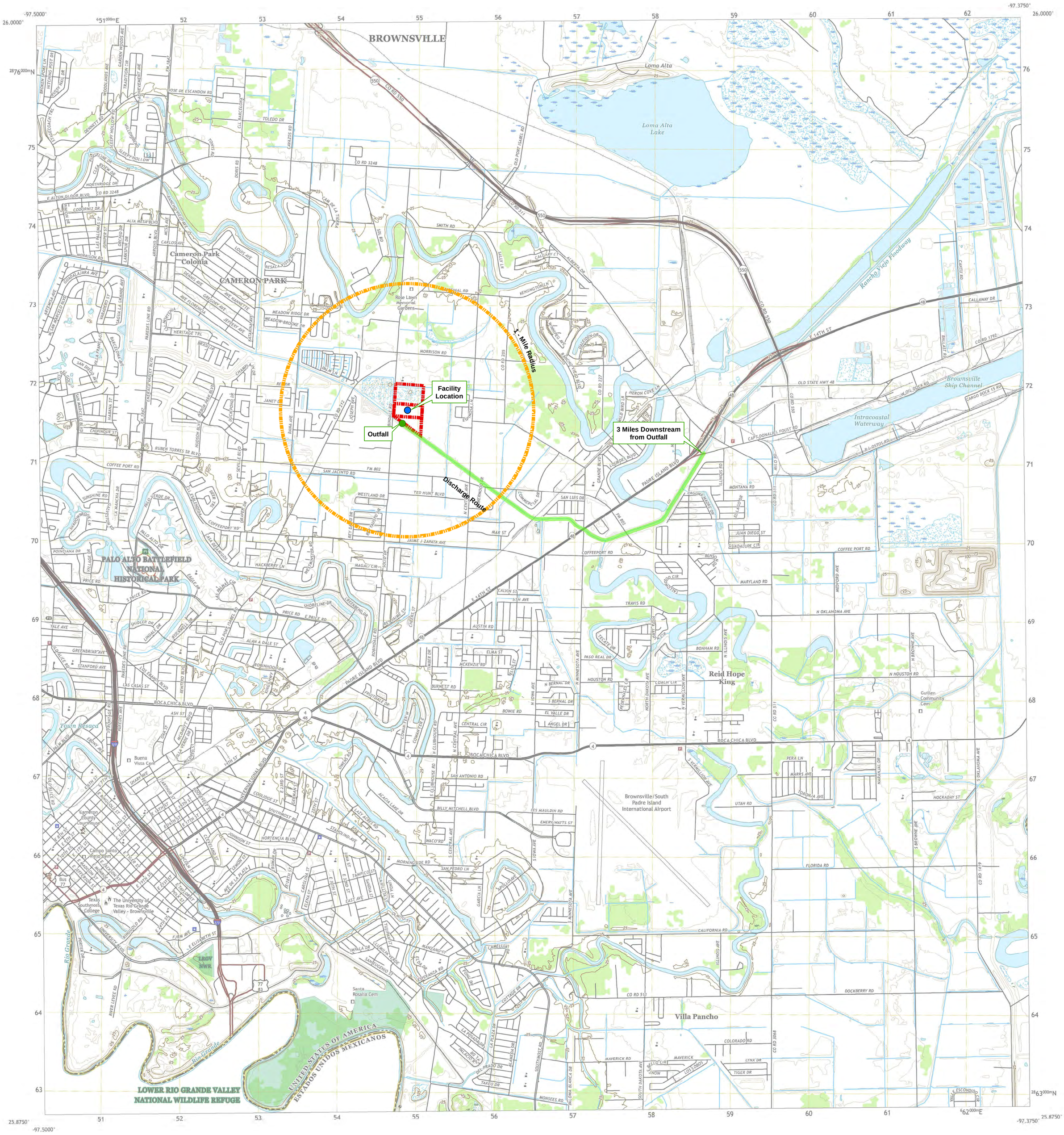
7.5 Quadrangle Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, December 2016 - January 2017
Roads	U.S. Census Bureau, 2015
Names	GNIS, 1979 - 2021
Hydrography	National Hydrography Dataset, 2001 - 2018
Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

MN
GN
3°35'
64 MILS
0°41'
12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
	6	7

1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143

Administrative Report 1.0

ATTACHMENT D (page 10)

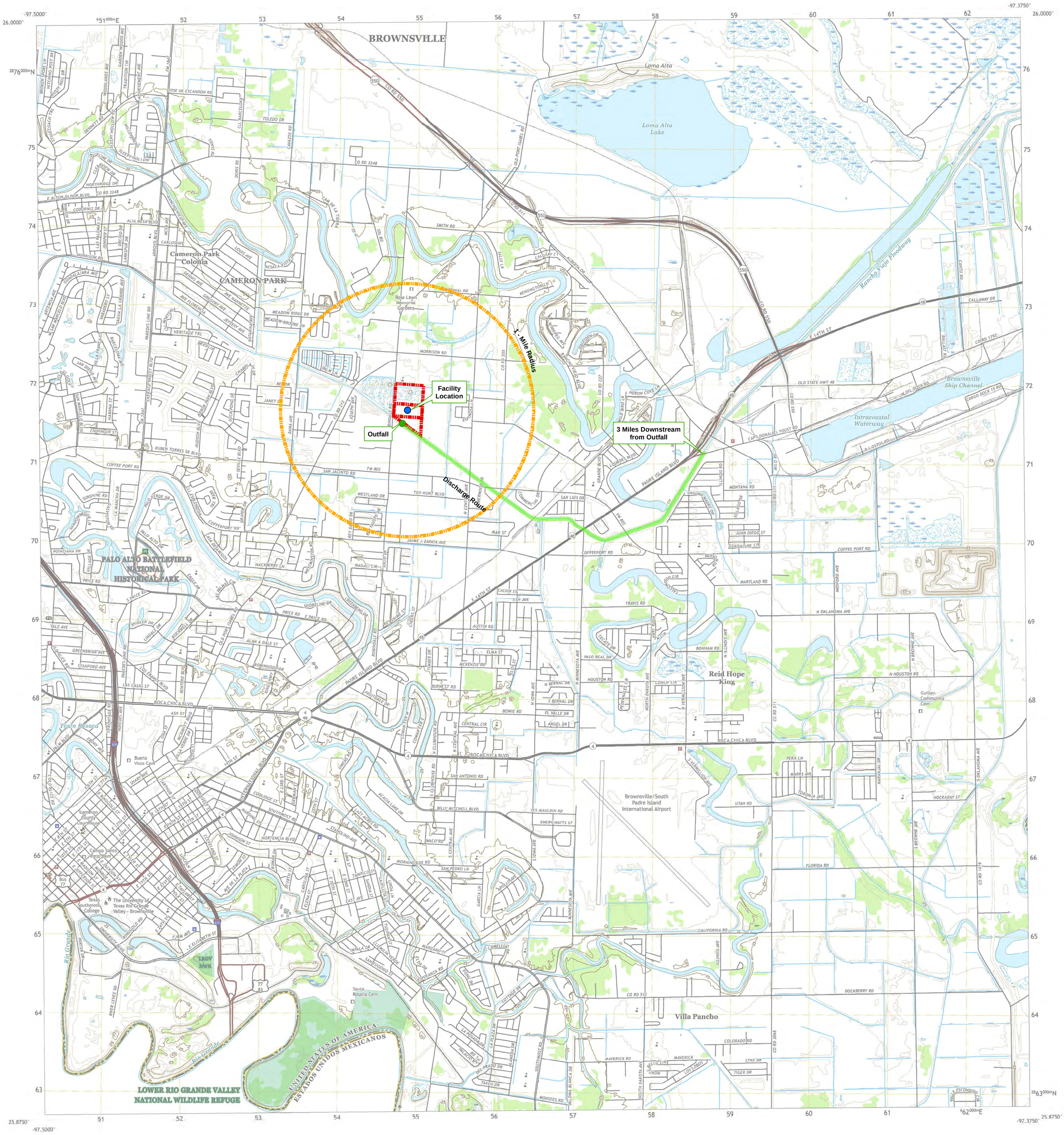
USGS Topographic Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
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1 000-meter grid:Universal Transverse Mercator, Zone 14R

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
	6	7

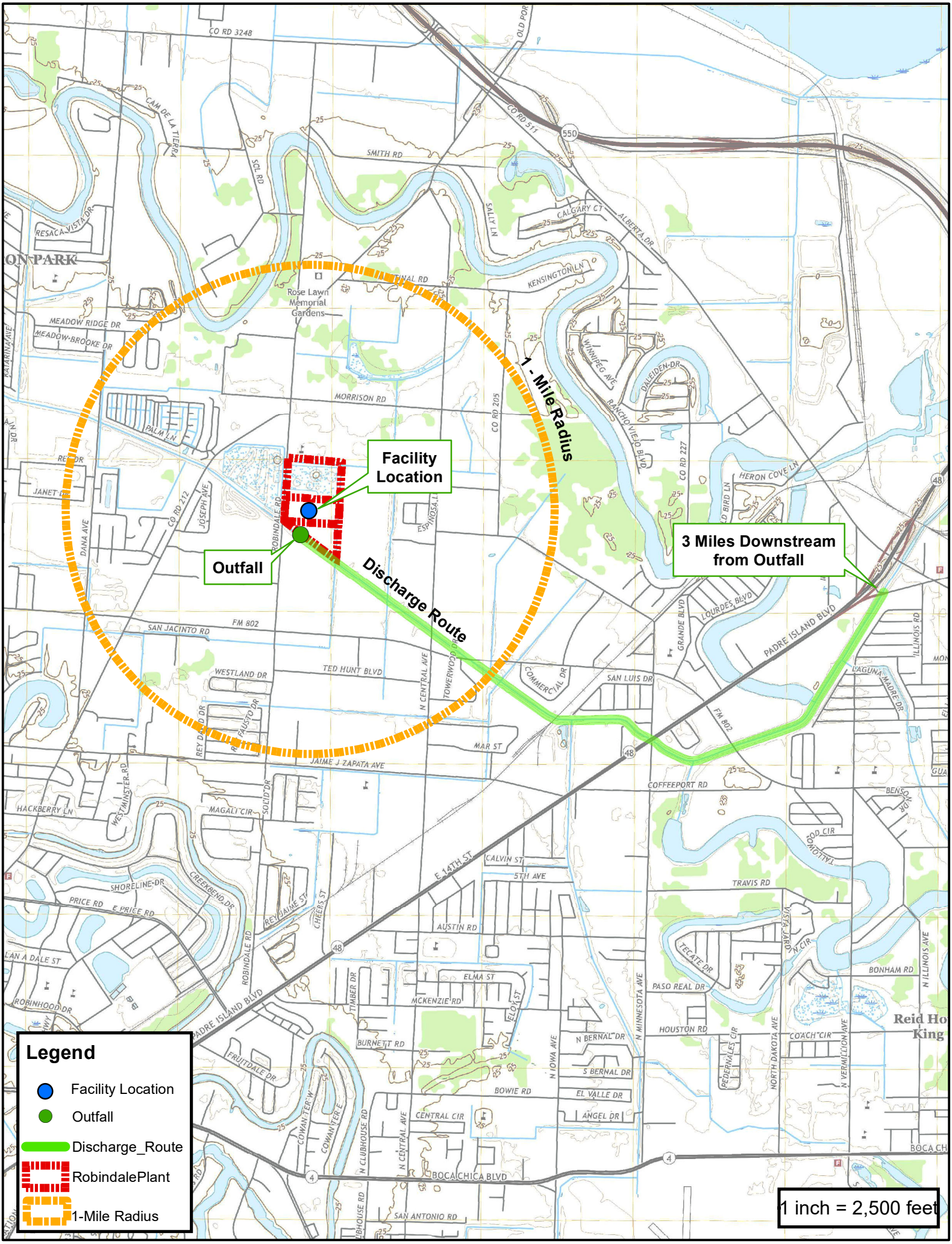
1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

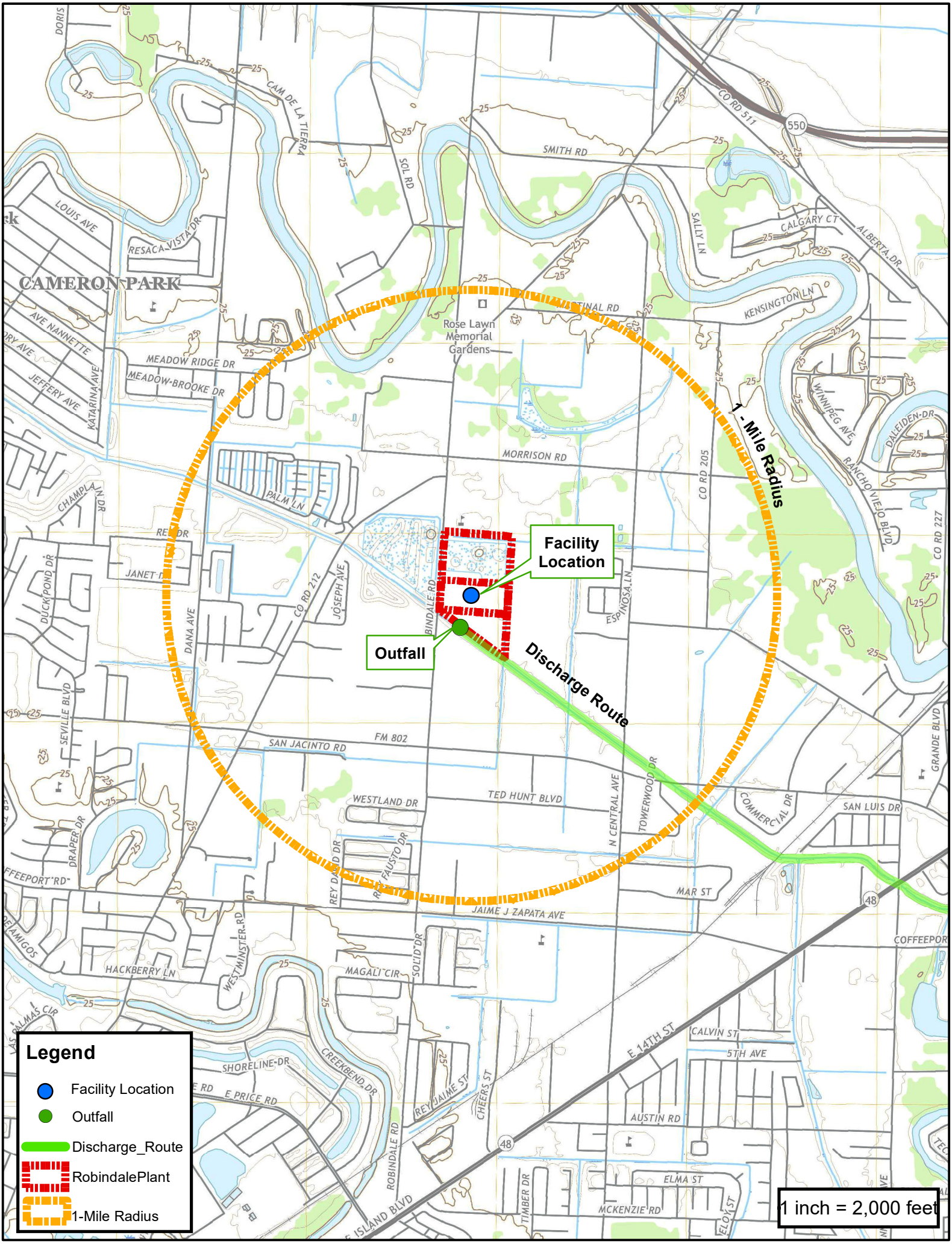
ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143


Facility Location
Outfall
1 - Mile Radius
Discharge Route
3 Miles Downstream from Outfall
Legend
Facility Location
Outfall
Discharge_Route
RobindalePlant
1-Mile Radius
1 inch = 2,500 feet


Facility Location
Outfall
Discharge Route
1 - Mile Radius
Rose Lawn Memorial Gardens
CAMERON PARK
SMITH RD
MORRISON RD
MEADOW RIDGE DR
MEADOW-BROOKE DR
PALM LN
JANET LN
CO RD 212
JOSEPH AVE
BINDALE RD
CO RD 205
ESPINOSA LN
CO RD 227
RANCHO VIEJO BLVD
WINNIPEG AVE
KENSINGTON LN
CALGARY CT
ALBERTA DR
SALLY LN
CO RD 511
550
SOL RD
CAM DE LA TIERRA
LOUIS AVE
RESACA VISTA DR
AVE NANNETTE
JEFFERY AVE
KATARINA AVE
CHAMPLAIN DR
DUCK POND DR
DANA AVE
SEVILLE BLVD
SAN JACINTO RD
FM 802
WESTLAND DR
TED HUNT BLVD
N CENTRAL AVE
TOWERWOOD DR
COMMERCIAL DR
SAN LUIS DR
GRANDE BLVD
DRAPER DR
FFEEPORT RD
REY DAVID DR
FAUSTO DR
MAR ST
JAIME J ZAPATA AVE
48
COFFEEPOR
HACKBERRY LN
WESTMINSTER RD
MAGALI CIR
SOLID DR
SHORELINE DR
CREEKBEND DR
E PRICE RD
REY JAIME ST
CHEERS ST
ROBINDALE RD
E 14TH ST
CALVIN ST
5TH AVE
AUSTIN RD
ELMA ST
MCKENZIE RD
ELOY ST
TIMBER DR
E ISLAND BLVD
Legend
Facility Location
Outfall
Discharge_Route
RobindalePlant
1-Mile Radius
1 inch = 2,000 feet

Administrative Report (page 11), Core Data Form (page 3) and Technical Report (page 20)

ATTACHMENT E

Signatory Resolution No. 2013-0812

RESOLUTION No. 2013-0812 (IC-18)

A RESOLUTION OF THE PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS AUTHORIZING THE DIRECTOR OF ENVIRONMENTAL SERVICES AND THE ENVIRONMENTAL MANAGER TO EXECUTE DOCUMENTS DEALING WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE U.S. ENVIRONMENTAL PROTECTION AGENCY

WHEREAS, the Public Utilities Board of the City of Brownsville, Texas ("BPUB") is required to comply with certain regulations of the Texas Commission on Environmental Quality ("TCEQ") and the U.S. Environmental Protection Agency ("EPA"); and

WHEREAS, it is necessary for BPUB to execute documents and/or submit reports of a routine nature and to communicate with the TCEQ and EPA from time to time on routine and non-routine matters on behalf of BPUB; and

WHEREAS, it is in the interest of BPUB that the Director of Environmental Services, a position presently occupied by Mr. Alberto Gomez, Jr., should serve as BPUB's duly authorized representative to execute and/or submit such documents and reports and engage in such communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations; and

WHEREAS, it is in the interest of BPUB that the Environmental Manager, a position presently occupied by Mr. Ramiro Capistran, Jr., serve as BPUB's alternate representative who is authorized to execute and/or submit such documents and reports and engage in such communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations when the Director of Environmental Services is absent or unavailable, whether on a temporary or permanent basis; now, therefore,

BE IT RESOLVED by the Public Utilities Board of the City of Brownsville, Texas:

1. That the Director of Environmental Services is named as BPUB's duly authorized representative to execute documents and/or submit reports of a routine nature and to engage in communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations.

2. That, in the absence or unavailability of the Director of Environmental Services, the Environmental Manager is authorized to act as BPUB's duly authorized representative.

3. That this Resolution shall take effect immediately upon its passage.

PASSED and APPROVED this 12th day of August 2013.

The City of Brownsville, Texas acting by and through the Public Utilities Board of the City of Brownsville, Texas

Oscar D. Garcia, Vice Chair

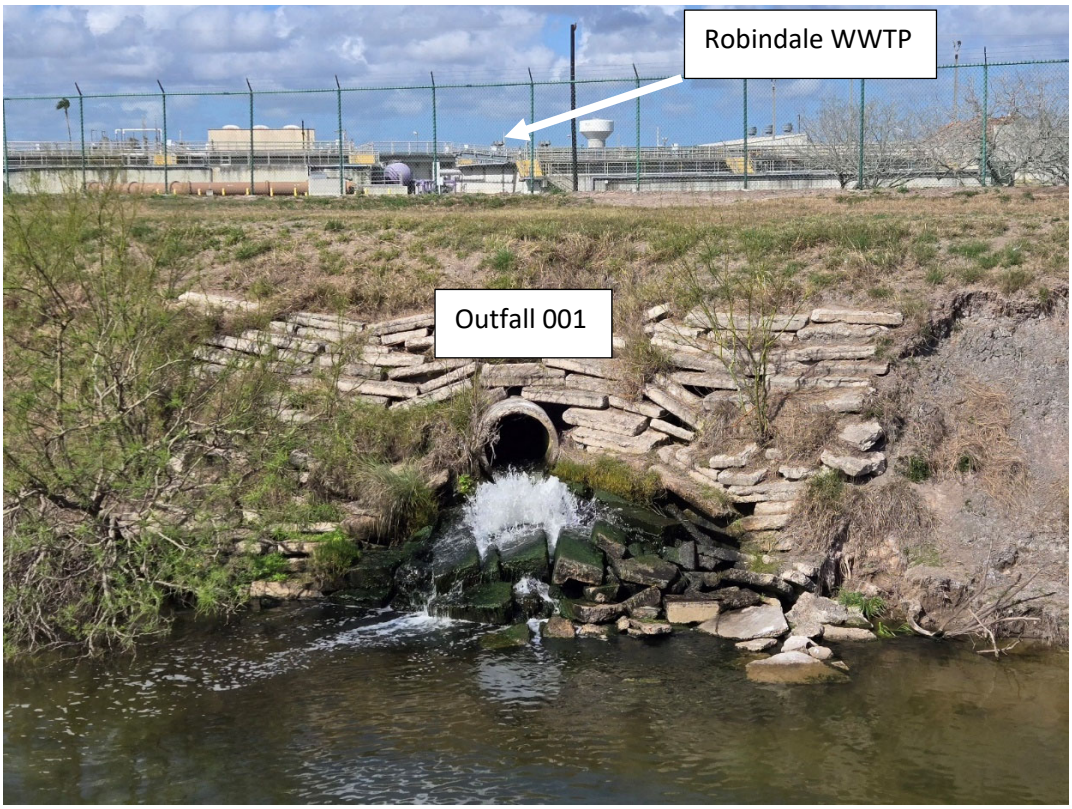
Administrative Report 1.0

ATTACHMENT F (page 13)

Effluent Outfall Photographs

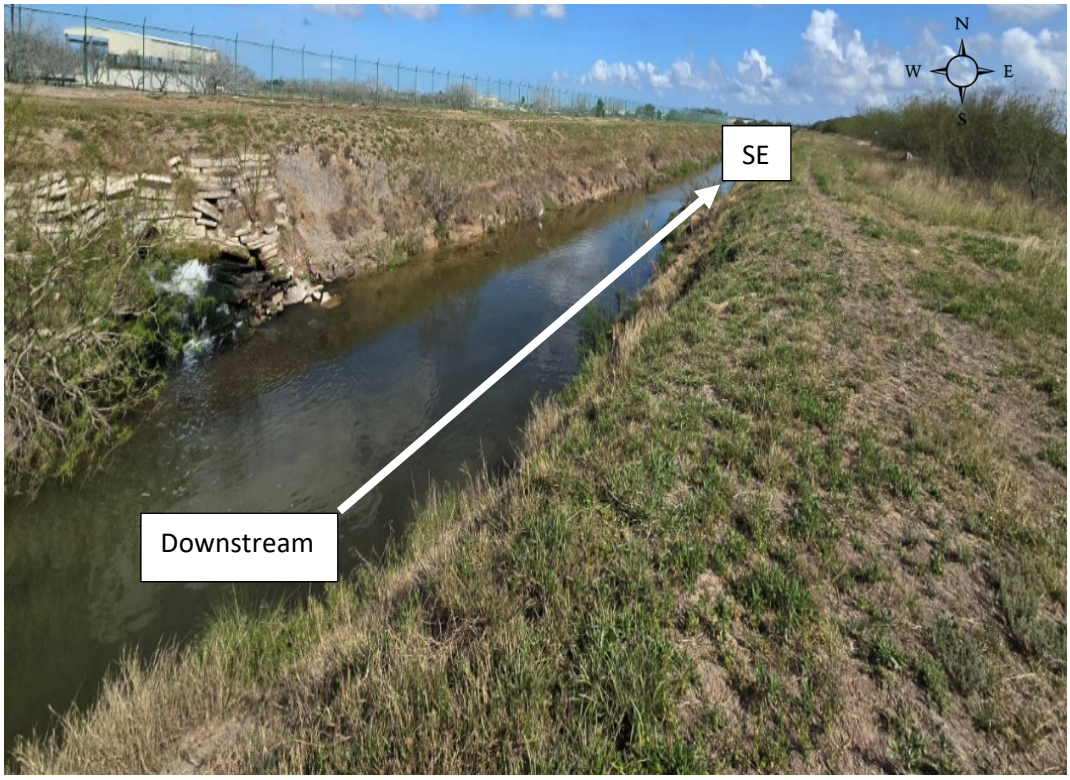
Section 2. Original Photographs

Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent disposal site.





Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent downstream.



Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent upstream.



Administrative Report 1.0

ATTACHMENT G (page 14)

SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Public Utilities Board of the City of Brownsville, Texas

   Permit No. WQ00 10397005 EPA ID No. TX 0071340

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

   3208 Robindale Rd., Brownsville, Cameron

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: Louis Bennett

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

Title: Wastewater Treatment Manager

Mailing Address: 3208 Robindale Rd.

City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6518 Ext.: NA Fax No.: (956) 574-6114

E-mail Address: LBennett@brownsville-pub.com

2. List the county in which the facility is located: Cameron
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.

From the Robindale Wastewater Treatment Plant to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay 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

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

NA

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

NA

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

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

NA

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

NA

Administrative Report 1.0

ATTACHMENT G1 (SPIF page 2)

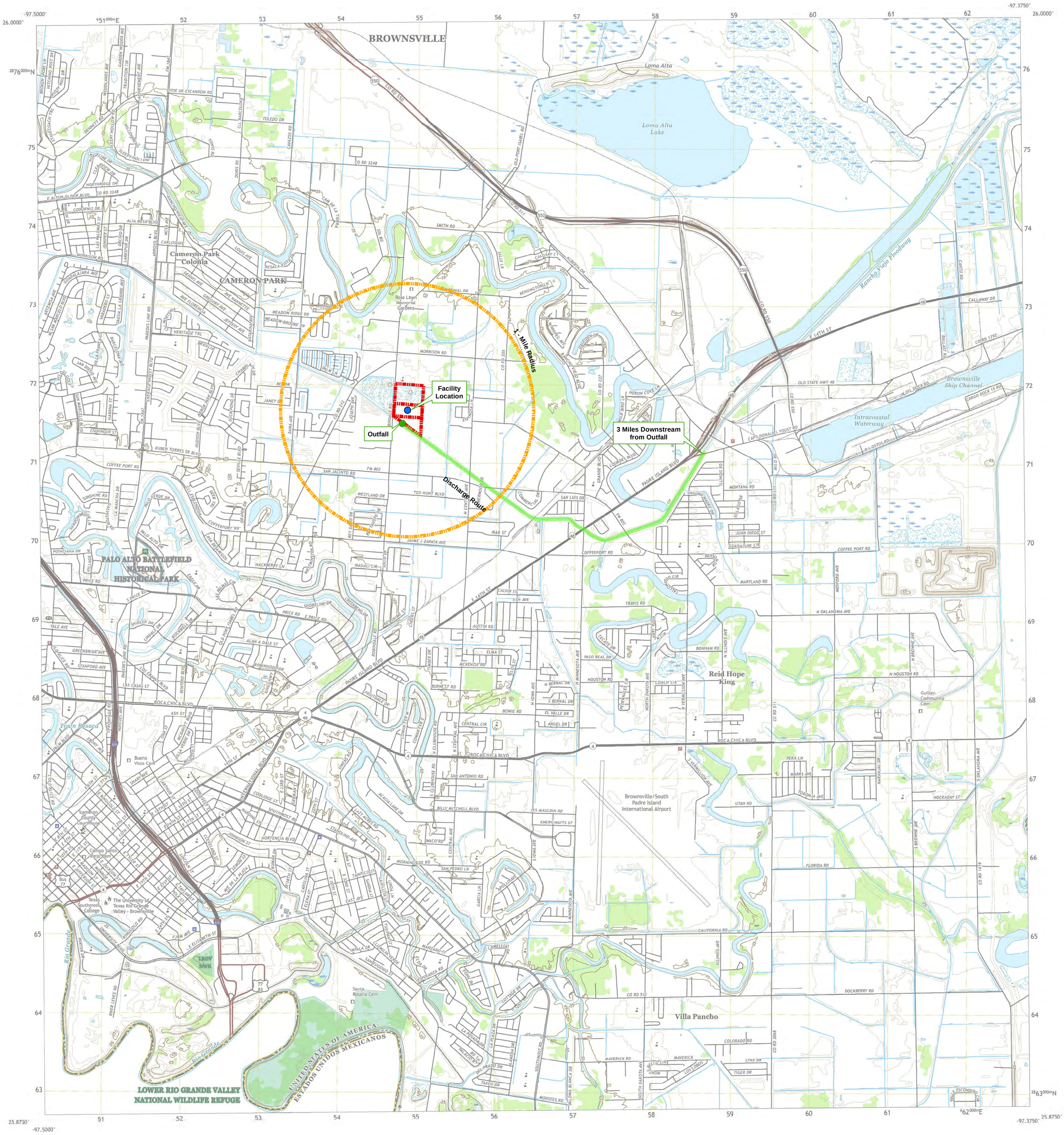
7.5 Quadrangle Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



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North American Datum of 1983 (NAD83)
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1 000-meter grid:Universal Transverse Mercator, Zone 14R

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Imagery	NAIP, December 2016 - January 2017
Roads	U.S. Census Bureau, 2015
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Hydrography	National Hydrography Dataset, 2001 - 2018
Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

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0°41'
12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
	6	7

1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 14.5

2-Hr Peak Flow (MGD): 43.5

Estimated construction start date: NA

Estimated waste disposal start date: NA

B. Interim II Phase

Design Flow (MGD): NA

2-Hr Peak Flow (MGD): NA

Estimated construction start date: NA

Estimated waste disposal start date: NA

C. Final Phase

Design Flow (MGD): 14.5

2-Hr Peak Flow (MGD): 43.5

Estimated construction start date: NA

Estimated waste disposal start date: NA

D. Current Operating Phase

Provide the startup date of the facility: 1995

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The Robindale Wastewater Treatment Plant (WWTP) is designed to treat 14.5 MGD. The plant treatment processes consist of:

*Preliminary treatment: Raw wastewater/influent is pumped from the collection system to the site through a 24-inch, 20-inch, and 12-inch force main. Then, influent flows into two screening channels, with 6 mm perforated screens, each sized for 100% of the peak flow. A third channel, with isolation gates and a 12 mm coarse bar screen, is also provided. Each screen has its own dedicated washer/compactor system that discharges directly into the screenings disposal container. All channels are covered and the air is collected and drawn to the odor control system. Flow exits the screen channels an enters a grit removal basin with a Headcell grit separator system. This grit basin is connected to a pair of grit centrifugal pumps which pumps the grit to a cyclone/classifier for grit removal before it is deposited in disposal containers. The flow exits the grit basins and is split between the four aeration basins (trains).

*Secondary treatment: Screened and degritted raw wastewater flow into secondary treatment trains. The aeration basins design features four process bioreactors configured in a Modified Ludzack-Ettinger process (MLE) flow scheme to provide four anoxic zones. This process uses the carbon present in the influent to drive the denitrification process. The anoxic selector improves the sludge settling in the final clarifier, reduces the oxygen demand on the nitrification portion of the process, recovers a portion of the alkalinity consumed, and by reducing the nitrate-nitrogen in the mixed liquor, also reduces the opportunity for denitrification in the clarifiers which it can lead to floating sludge. The mixed liquor flows from the four activated sludge process trains to a new mixed-liquor pump station and then on to three circular final clarifiers (146-foot-diameter), which separate the treated liquid from the solids. The return activated sludge (RAS) and waste activated sludge (WAS) are collected with the RAS ahead of secondary treatment, and the WAS is directed to thickening prior to digestion. The secondary effluent flows from the clarifiers through a parshall flume for final measurements and then onto disinfection. Secondary effluent is disinfected using ultraviolet (UV) light disinfection. The UV lamps are in two channels downstream of the secondary clarifiers. Two banks of 126 lamps each are in series in each channel. The channels have fixed weirs that keep the lamps submerged to proper depth under all flow conditions. Following UV disinfection, the secondary effluent is re-aerated by a cascade aerator that dissolves oxygen (DO) into the discharge water at a level that exceeds and conforms with TCEQ effluent DO criteria of 5 mg/L or more. Then, treated effluent is discharge through the existing permitted outfall 001 into the Cameron County Drainage Ditch no. 1. The design of the Robindale WWTP features multiple parallel units of each wastewater treatment process step to ensure redundancy.

*Solids handling and Dewatering process: The WAS is directed to a thickener process. The gravity thickeners thickened WAS discharges directly into the two smaller aerobic digesters with coarse bubble diffusers. Then, the flow from smaller digesters is pumped into two additional aerobic digesters for additional detention time. The digested sludge is then pumped to a dewatering facility which houses the belt filter press. The dewatered cake is conveyed from the press to a truck for disposal offsite at the City of Brownsville Municipal Solid Waste Landfill - permit no. 12738. The sludge meets U.S. EPA class B criteria.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Influent Screen (mechanical)	2	5 ft. - opening size 6 mm

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Influent Screen (manual bar)	1	5 ft. - opening size 12 mm
Screenings Compactors	2	85 ft3/d
Grit Removal Basins (no. trays = 12)	1	12 ft3/d
Grit Removal System (no. of cyclones)	2	450 gpm @ 10 psig
Grit Removal System (no. of classifiers)	1	0.30 cy/hr.
Grit Pumps	2	450 gpm
Bioreactors Basins Train 1 - Zone 1 & 2	2	81.00 x 48.00 x 20.80 ft
Train 1 - Zone 3 & 4	2	121.00 x 48.00 x 14.30 ft
Train 2 - Zone 1 & 2	2	81.00 x 48.00 x 20.80 ft
Train 2 - Zone 3 & 4	2	121.00 x 48.00 x 14.30 ft
Train 3 - Zone 1 & 2	2	81.00 x 57.00 x 20.80 ft
Train 3 - Zone 3 & 4	2	121.00 x 57.00 x 14.30 ft
Train 4 - Zone 1 & 2	2	81.00 x 57.00 x 20.80 ft
Train 4 - Zone 3 & 4	2	121.00 x 57.00 x 14.30 ft
Mix Liquor Pump Station (Open Screw Pump)	4 (3 duty - 1 standby)	13.5 ft of Lift
Secondary Clarifier #1 (circular)	1	0.00 x 146.00 x 18.00 ft
Secondary Clarifier #2 (circular)	1	0.00 x 146.00 x 18.00 ft
Secondary Clarifier #3 (circular)	1	0.00 x 146.00 x 18.00 ft
Return Activated Sludge (Gravity)	3 (1 p/clarifier)	6.48 MGD / 4,500 gpm
Waste Activated Sludge (Gravity)	1 (8" waste line)	240 gpm
UV Light Disinfection	2 (channels)	252 lamps (in each channel)
Effluent Re-aeration Train	1	72.00 ft x 26.00 ft
Plant Drain Pump Station	2 (1 standby)	1227 gpm
Aerobic Digester #1	1	70.00 x 35.00 x 24.00 ft
Aerobic Digester #2	1	70.00 x 35.00 x 24.00 ft
Aerobic Digester #3	1	119.5 x 71.5 x 24.00 ft

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aerobic Digester #4 (circular)	1	0.00 x 110.00 x 18.00 ft
Belt Filter Press Feed Pumps	2 (1 standby)	250 gpm @ 215 RPM (30 PSI)
Belt Filter Press	1	Capacity = 2 meters

C. Process Flow Diagram

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

Attachment: ATTACHMENT H

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

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

- Latitude: 25.954068
- Longitude: -97.453932

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

- Latitude: NA
- Longitude: NA

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 I

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

The north sector of the City of Brownsville, Texas.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Robindale WWTP Collection System	Public Utilities Board of the City of Brownsville, Texas	Publicly Owned	106,572
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

NA

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

NA

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: May 22, 2012 and June 26, 2014

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

NA

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.

NA

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.*

NA

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.

NA

3. *Grit disposal*

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

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

The grit waste is hauled by BPUB sludge transporter units (registration no. 23018 – ATTACHMENT J) and disposed at the City of Brownsville Solid Waste Municipal Landfill - permit no. 12738.

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

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

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

The Robindale Wastewater Treatment Plant does not have the provisions and/or treatment facilities to decant and treat grease. The Public Utilities Board implements a pretreatment Fats, Oil & Grease program to minimize the introduction of grease into the collection system.

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 AL36 – ATTACHMENT K or TXRNE NA

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:

NA

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.

NA

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.

NA

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.

NA

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

NA

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

NA

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

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

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

☐ Yes ☒ No

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

NA

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2.00	<2.00	1	Composite	11/19-20/24 14:00 - 12:00
Total Suspended Solids, mg/l	2.30	2.30	1	Composite	11/19-20/24 14:00 - 12:00
Ammonia Nitrogen, mg/l	0.348	0.348	1	Composite	11/19-20/24 14:00 - 12:00
Nitrate Nitrogen, mg/l	11.8	11.8	1	Composite	11/19-20/24 14:00 - 12:00
Total Kjeldahl Nitrogen, mg/l	0.351	0.351	1	Composite	11/19-20/24 14:00 - 12:00
Sulfate, mg/l	344	344	1	Composite	11/19-20/24 14:00 - 12:00
Chloride, mg/l	639	639	1	Composite	11/19-20/24 14:00 - 12:00
Total Phosphorus, mg/l	4.05	4.05	1	Composite	11/19-20/24 14:00 - 12:00
pH, standard units	7.0	7.0	1	Grab	11/20/24 9:30
Dissolved Oxygen*, mg/l	7.0	7.0	1	Grab	11/20/24 9:30
Chlorine Residual, mg/l	<0.05	<0.05	1	Grab	11/20/24 9:30
E.coli (CFU/100ml) freshwater	5.2 MPN	5.2 MPN	1	Grab	11/20/24 9:30
Entercocci (CFU/100ml) saltwater	NA	NA	NA	NA	NA
Total Dissolved Solids, mg/l	1840	1840	1	Composite	11/19-20/24 14:00 - 12:00
Electrical Conductivity, µmohs/cm, †	3230 umhos/cm	3230 umhos/cm	1	Composite	11/19-20/24 14:00 - 12:00
Oil & Grease, mg/l	<4.82	<4.82	1	Grab	11/20/24 9:30
Alkalinity ($CaCO_3$)*, mg/l	101	101	1	Composite	11/19-20/24 14:00 - 12:00

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Victor H. Martinez

Facility Operator's License Classification and Level: WW Treatment Operator Class A

Facility Operator's License Number: WW0059325

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 10,000 people
- ☒ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user - land application (onsite)
- ☐ Biosolids end user - surface disposal (onsite)
- ☐ Biosolids end user - incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process: NA

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk	1378.7	Class B: PSRP Aerobic Digestion	NA
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: Municipal Solid Waste Landfill – City of Brownsville

TCEQ permit or registration number: 12738

County where disposal site is located: Cameron

E. Transportation method

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

Name of the hauler: Public Utilities Board of the City of Brownsville, Texas

Hauler registration number: 23018 (ATTACHMENT J)

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: NA
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: NA
- Federal Emergency Management Map:

  Attachment: NA
- Site map:

  Attachment: NA

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: NA

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:

NA

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: NA

Total Kjeldahl Nitrogen, mg/kg: NA

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: NA

Phosphorus, mg/kg: NA

Potassium, mg/kg: NA

pH, standard units: NA

Ammonia Nitrogen mg/kg: NA

Arsenic: NA

Cadmium: NA

Chromium: NA

Copper: NA

Lead: NA

Mercury: NA

Molybdenum: NA

Nickel: NA

Selenium: NA

Zinc: NA

Total PCBs: NA

Provide the following information:

Volume and frequency of sludge to the lagoon(s): NA

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

Total dry tons stored in the lagoons(s) over the life of the unit: NA

C. Liner information

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

☐ Yes ☐ No

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

NA

D. Site development plan

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

NA

Attach the following documents to the application.

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

  Attachment: NA
- Copy of the closure plan

  Attachment: NA
- Copy of deed recordation for the site

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

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

  Attachment: NA
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: NA

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: NA

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

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

☒ Yes ☐ No

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

R10397-005 - Reuse Authorization (ATTACHMENT K).
TXR05AL36 - Stormwater Authorization (ATTACHMENT K).

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:

NA

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: NA

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Albert Gomez Jr., P.E., REM

Title: Director of Environmental Services

Signature: Albert Gomez Jr.

Date: 5/7/25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

NA

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: NA

If yes, attach correspondence from the city.

Attachment: NA

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: NA

2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☐ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: NA

3. ***Nearby WWTPs or collection systems***

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: NA

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: NA

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: NA

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): NA

Average Influent Organic Strength or BOD_5 Concentration in mg/l: NA

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): NA

Provide the source of the average organic strength or BOD_5 concentration.

NA

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	NA	NA
Subdivision	NA	NA
Trailer park - transient	NA	NA
Mobile home park	NA	NA
School with cafeteria and showers	NA	NA
School with cafeteria, no showers	NA	NA
Recreational park, overnight use	NA	NA
Recreational park, day use	NA	NA
Office building or factory	NA	NA
Motel	NA	NA
Restaurant	NA	NA
Hospital	NA	NA
Nursing home	NA	NA
Other	NA	NA
TOTAL FLOW from all sources	NA	NA
AVERAGE BOD_5 from all sources	NA	NA

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: NA mg/l after NA minutes detention time at peak flow

Dechlorination process: NA

☐ Ultraviolet Light: NA seconds contact time at peak flow

☐ Other: NA

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: NA

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

NA

Provide the source(s) used to determine 100-year frequency flood plain.

NA

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: NA

If no, provide the approximate date you anticipate submitting your application to the Corps: NA

B. Wind rose

Attach a wind rose: NA

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451):** NA

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056):** NA

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: NA

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

Owner of the drinking water supply: NA

Distance and direction to the intake: NA

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

Attachment: NA

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

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).

NA

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).

NA

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Cameron County Drainage Ditch No. 1

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: NA

Average depth of the entire water body, in feet: NA

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: NA

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: NA

C. Downstream perennial confluences

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

NA

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.

NA

E. Normal dry weather characteristics

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

Man-made drainage canal with flowing water

Date and time of observation: 2/27/2025 @ 3:00 PM

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☒ Urban runoff
☒ Agricultural runoff
☐ Other(s), specify: NA

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: Drainage Ditch

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

Date of study: NA Time of study: NA

Stream name: NA

Location: NA

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: NA

Number of stream bends that are moderately defined: NA

Number of stream bends that are poorly defined: NA

Number of riffles: NA

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

NA

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.	NA	NA	NA
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

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

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

Length of stream evaluated, in feet: NA

Number of lateral transects made: NA

Average stream width, in feet: NA

Average stream depth, in feet: NA

Average stream velocity, in feet/second: NA

Instantaneous stream flow, in cubic feet/second: NA

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

Size of pools (large, small, moderate, none): NA

Maximum pool depth, in feet: NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): NA

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

For existing authorizations, provide Registration Number: NA

Section 2. Land Application Site(s) (Instructions Page 68)

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	NA	NA	NA

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
NA	NA	NA	NA	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 68)

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 68)

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 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation 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 radius 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 located within a half-mile radius of the disposal site or property boundaries 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
NA	NA	NA	Choose an item.	NA
			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: NA

Section 7. Groundwater Quality (Instructions Page 69)

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: NA

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

Attachment: NA

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: NA

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: NA

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
NA	NA	NA	NA	NA

Section 9. Effluent Monitoring Data (Instructions Page 71)

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	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
NA	NA	NA	NA	NA	NA	NA

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

NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 72)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: NA

Design application frequency:

hours/day NA **And** days/week NA

Land grade (slope):

average percent (%): NA

maximum percent (%): NA

Design application rate in acre-feet/acre/year: NA

Design total nitrogen loading rate, in lbs N/acre/year: NA

Soil conductivity (mmhos/cm): NA

Method of application: NA

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: NA

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: NA

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: NA

C. Evapotranspiration beds

Number of beds: NA

Area of bed(s), in acres: NA

Depth of bed(s), in feet: NA

Void ratio of soil in the beds: NA

Storage volume within the beds, in acre-feet: NA

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: NA

D. Overland flow

Area used for application, in acres: NA

Slopes for application area, percent (%): NA

Design application rate, in gpm/foot of slope width: NA

Slope length, in feet: NA

Design BOD_5 loading rate, in lbs BOD_5/acre/day: NA

Design application frequency:

hours/day: NA **And** days/week: NA

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217.*

Attachment: NA

Section 2. Edwards Aquifer (Instructions Page 73)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: NA

Application area, in acres: NA

Area of drainfield, in square feet: NA

Application rate, in gal/square foot/day: NA

Depth to groundwater, in feet: NA

Area of trench, in square feet: NA

Dosing duration per area, in hours: NA

Number of beds: NA

Dosing amount per area, in inches/day: NA

Infiltration rate, in inches/hour: NA

Storage volume, in gallons: NA

Area of bed(s), in square feet: NA

Soil Classification: NA

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: NA

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. NA Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

NA

C. Owner of the subsurface area drip dispersal system: NA

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

NA

E. Owner of the land where the subsurface area drip dispersal system is located: NA

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

NA

Section 2. Subsurface Area Drip Dispersal System (Instructions Page

75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: NA

B. Irrigation operations

Application area, in acres: NA

Infiltration Rate, in inches/hour: NA

Average slope of the application area, percent (%): NA

Maximum slope of the application area, percent (%): NA

Storage volume, in gallons: NA

Major soil series: NA

Depth to groundwater, in feet: NA

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: NA

Nitrogen application rate, in lbs/gal/day: NA

D. Dosing information

Number of doses per day: NA

Dosing duration per area, in hours: NA

Rest period between doses, in hours: NA

Dosing amount per area, in inches/day: NA

Number of zones: NA

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: NA

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79.*

Attachment: NA

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73.*

Attachment: NA

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75.*

Attachment: NA

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157.*

Attachment: NA

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: NA

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: NA

B. Buffer variance request

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 ☒ ATTACHMENT L

Date and time sample(s) collected: November 19-20, 2024 @ 14:00 – 12:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<2.00	<2.00	1	50
Aldrin	<1.00	<1.00	1	0.01
Aluminum	0.00817 mg/L	0.00817 mg/L	1	2.5
Anthracene	<1.04	<1.04	1	10
Antimony	<0.00376 mg/L	<0.00376 mg/L	1	5
Arsenic	0.00185 mg/L	0.00185 mg/L	1	0.5
Barium	0.0314 mg/L	0.0314 mg/L	1	3
Benzene	<1.00	<1.00	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)anthracene	<1.04	<1.04	1	5
Benzo(a)pyrene	<1.04	<1.04	1	5
Bis(2-chloroethyl)ether	<1.04	<1.04	1	10
Bis(2-ethylhexyl)phthalate	<7.77	<7.77	1	10
Bromodichloromethane	<1.00	<1.00	1	10
Bromoform	<2.00	<2.00	1	10
Cadmium	<0.001 mg/L	<0.001 mg/L	1	1
Carbon Tetrachloride	<1.00	<1.00	1	2
Carbaryl	<2.50	<2.50	1	5
Chlordane*	<0.200	<0.200	1	0.2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: NA

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<1.00	<1.00	1	10
Chlorpyrifos	<0.050	<0.050	1	0.05
Chromium (Total)	<0.001 mg/L	<0.001 mg/L	1	3
Chromium (Tri) **(*1)**	<0.003 mg/L	<0.003 mg/L	1	N/A
Chromium (Hex)	<3.00	<3.00	1	3
Copper	0.00308 mg/L	0.00308 mg/L	1	2
Chrysene	<1.04	<1.04	1	5
p-Chloro-m-Cresol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.29	<8.29	1	50
p-Cresol	<6.42	<6.42	1	10
Cyanide **(*2)**	<0.005 mg/L	<0.005 mg/L	1	10
4,4'- DDD	<0.010	<0.010	1	0.1
4,4'- DDE	<0.010	<0.010	1	0.1
4,4'- DDT	<0.010	<0.010	1	0.02
2,4-D	<0.497	<0.497	1	0.7
Demeton (O and S)	<0.0501	<0.0501	1	0.20
Diazinon	<0.0501	<0.0501	1	0.5/0.1
1,2-Dibromoethane	<1.00	<1.00	1	10
m-Dichlorobenzene	<1.00	<1.00	1	10
o-Dichlorobenzene	<1.00	<1.00	1	10
p-Dichlorobenzene	<1.00	<1.00	1	10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
Dichloromethane	<2.00	<2.00	1	20
1,2-Dichloropropane	<1.01	<1.01	1	10
1,3-Dichloropropene	<1.00	<1.00	1	10
Dicofol	<0.0501	<0.0501	1	1
Dieldrin	<0.010	<0.010	1	0.02
2,4-Dimethylphenol	<2.49	<2.49	1	10
Di-n-Butyl Phthalate	<7.77	<7.77	1	10
Diuron	<0.045	<0.045	1	0.09
Endosulfan I (alpha)	<0.010	<0.010	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.010	<0.010	1	0.02
Endosulfan Sulfate	<0.010	<0.010	1	0.1
Endrin	<0.010	<0.010	1	0.02
Ethylbenzene	<1.00	<1.00	1	10
Fluoride	<0.500 mg/L	<0.500 mg/L	1	500
Guthion	<0.0501	<0.0501	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclohexane (alpha)	<0.010	<0.010	1	0.05
Hexachlorocyclohexane (beta)	<0.010	<0.010	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.010	<0.010	1	0.05
Hexachlorocyclopentadiene	<9.33	<9.33	1	10
Hexachloroethane	<1.04	<1.04	1	20
Hexachlorophene	<2.55	<2.55	1	10
Lead	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Malathion	<0.0501	<0.0501	1	0.1
Mercury	<5.32 ng/L	<5.32 ng/L	1	0.005
Methoxychlor	<0.010	<0.010	1	2
Methyl Ethyl Ketone	<10.0	<10.0	1	50
Mirex	<0.010	<0.010	1	0.02
Nickel	0.00247 mg/L	0.00247 mg/L	1	2
Nitrate-Nitrogen	11.8 mg/L	11.8 mg/L	1	100
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodiethylamine	<1.04	<1.04	1	20
N-Nitroso-di-n-Butylamine	<1.04	<1.04	1	20
Nonylphenol	<37.4	<37.4	1	333
Parathion (ethyl)	<0.0501	<0.0501	1	0.1
Pentachlorobenzene	<1.04	<1.04	1	20
Pentachlorophenol	<1.04	<1.04	1	5
Phenanthrene	<1.04	<1.04	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	<0.200	<0.200	1	0.2
Pyridine	<5.60	<5.60	1	20
Selenium	0.0024 mg/L	0.0024 mg/L	1	5
Silver	<0.0002 mg/L	<0.0002 mg/L	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.04	<1.04	1	20
1,1,2,2-Tetrachloroethane	<2.00	<2.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10
Thallium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Toluene	<1.00	<1.00	1	10
Toxaphene	<0.200	<0.200	1	0.3
2,4,5-TP (Silvex)	<0.298	<0.298	1	0.3
Tributyltin (see instructions for explanation)	<0.00709	<0.00709	1	0.01
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<2.00	<2.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
2,4,5-Trichlorophenol	<1.04	<1.04	1	50
TTHM (Total Trihalomethanes)	<0.002 mg/L	<0.002 mg/L	1	10
Vinyl Chloride	<1.04	<1.04	1	10
Zinc	0.0224 mg/L	0.0224 mg/L	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☒ ATTACHMENT L

Date and time sample(s) collected: November 19-20, 2024 @ 14:00 – 12:00

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<0.00376 mg/L	<0.00376 mg/L	1	5
Arsenic	0.00185 mg/L	0.00185 mg/L	1	0.5
Beryllium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Cadmium	<0.001 mg/L	<0.001 mg/L	1	1
Chromium (Total)	<0.001 mg/L	<0.001 mg/L	1	3
Chromium (Hex)	<3.00	<3.00	1	3
Chromium (Tri) **(*1)**	<0.003 mg/L	<0.003 mg/L	1	N/A
Copper	0.00308 mg/L	0.00308 mg/L	1	2
Lead	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Mercury	<5.32 ng/L	<5.32 ng/L	1	0.005
Nickel	0.00247 mg/L	0.00247 mg/L	1	2
Selenium	0.0024 mg/L	0.0024 mg/L	1	5
Silver	<0.0002 mg/L	<0.0002 mg/L	1	0.5
Thallium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Zinc	0.0224 mg/L	0.0224 mg/L	1	5
Cyanide **(*2)**	<0.005 mg/L	<0.005 mg/L	1	10
Phenols, Total	<1.55	<1.55	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<4.00	<4.00	1	50
Acrylonitrile	<2.00	<2.00	1	50
Benzene	<1.00	<1.00	1	10
Bromoform	<2.00	<2.00	1	10
Carbon Tetrachloride	<1.00	<1.00	1	2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10
Chloroethane	<5.00	<5.00	1	50
2-Chloroethylvinyl Ether	<5.00	<5.00	1	10
Chloroform	<1.00	<1.00	1	10
Dichlorobromomethane [Bromodichloromethane]	<1.00	<1.00	1	10
1,1-Dichloroethane	<1.00	<1.00	1	10
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
1,2-Dichloropropane	<1.01	<1.01	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.00	<1.00	1	10
1,2-Trans-Dichloroethylene	<1.00	<1.00	1	10
Ethylbenzene	<1.00	<1.00	1	10
Methyl Bromide	<1.01	<1.01	1	50
Methyl Chloride	<1.00	<1.00	1	50
Methylene Chloride	<2.00	<2.00	1	20
1,1,2,2-Tetrachloroethane	<2.00	<2.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10
Toluene	<1.00	<1.00	1	10
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<2.00	<2.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
Vinyl Chloride	<1.04	<1.04	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<1.04	<1.04	1	10
2,4-Dichlorophenol	<1.04	<1.04	1	10
2,4-Dimethylphenol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.29	<8.29	1	50
2,4-Dinitrophenol	<9.33	<9.33	1	50
2-Nitrophenol	<1.04	<1.04	1	20
4-Nitrophenol	<1.04	<1.04	1	50
P-Chloro-m-Cresol	<2.49	<2.49	1	10
Pentalchlorophenol	<1.04	<1.04	1	5
Phenol	<1.55	<1.55	1	10
2,4,6-Trichlorophenol	<1.04	<1.04	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<1.04	<1.04	1	10
Acenaphthylene	<1.04	<1.04	1	10
Anthracene	<1.04	<1.04	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)Anthracene	<1.04	<1.04	1	5
Benzo(a)Pyrene	<1.04	<1.04	1	5
3,4-Benzofluoranthene	<1.04	<1.04	1	10
Benzo(ghi)Perylene	<1.04	<1.04	1	20
Benzo(k)Fluoranthene	<1.04	<1.04	1	5
Bis(2-Chloroethoxy)Methane	<1.04	<1.04	1	10
Bis(2-Chloroethyl)Ether	<1.04	<1.04	1	10
Bis(2-Chloroisopropyl)Ether	<1.04	<1.04	1	10
Bis(2-Ethylhexyl)Phthalate	<7.77	<7.77	1	10
4-Bromophenyl Phenyl Ether	<1.04	<1.04	1	10
Butyl benzyl Phthalate	<7.77	<7.77	1	10
2-Chloronaphthalene	<1.04	<1.04	1	10
4-Chlorophenyl phenyl ether	<1.04	<1.04	1	10
Chrysene	<1.04	<1.04	1	5
Dibenzo(a,h)Anthracene	<1.04	<1.04	1	5
1,2-(o)Dichlorobenzene	<1.04	<1.04	1	10
1,3-(m)Dichlorobenzene	<1.04	<1.04	1	10
1,4-(p)Dichlorobenzene	<1.04	<1.04	1	10
3,3-Dichlorobenzidine	<5.00	<5.00	1	5
Diethyl Phthalate	<5.91	<5.91	1	10
Dimethyl Phthalate	<4.97	<4.97	1	10
Di-n-Butyl Phthalate	<7.77	<7.77	1	10
2,4-Dinitrotoluene	<3.63	<3.63	1	10
2,6-Dinitrotoluene	<1.04	<1.04	1	10
Di-n-Octyl Phthalate	<1.04	<1.04	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.04	<1.04	1	20
Fluoranthene	<1.04	<1.04	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<1.04	<1.04	1	10
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclo-pentadiene	<9.33	<9.33	1	10
Hexachloroethane	<1.04	<1.04	1	20
Indeno(1,2,3-cd)pyrene	<1.04	<1.04	1	5
Isophorone	<1.04	<1.04	1	10
Naphthalene	<1.04	<1.04	1	10
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodimethylamine	<7.25	<7.25	1	50
N-Nitrosodi-n-Propylamine	<1.04	<1.04	1	20
N-Nitrosodiphenylamine	<1.04	<1.04	1	20
Phenanthrene	<1.04	<1.04	1	10
Pyrene	<1.04	<1.04	1	10
1,2,4-Trichlorobenzene	<1.04	<1.04	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.010	<0.010	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
Chlordane	<0.200	<0.200	1	0.2
4,4-DDT	<0.010	<0.010	1	0.02
4,4-DDE	<0.010	<0.010	1	0.1
4,4,-DDD	<0.010	<0.010	1	0.1
Dieldrin	<0.010	<0.010	1	0.02
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.010	<0.010	1	0.02
Endosulfan Sulfate	<0.010	<0.010	1	0.1
Endrin	<0.010	<0.010	1	0.02
Endrin Aldehyde	<0.010	<0.010	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
PCB-1242	<0.200	<0.200	1	0.2
PCB-1254	<0.200	<0.200	1	0.2
PCB-1221	<0.200	<0.200	1	0.2
PCB-1232	<0.200	<0.200	1	0.2
PCB-1248	<0.200	<0.200	1	0.2
PCB-1260	<0.200	<0.200	1	0.2
PCB-1016	<0.200	<0.200	1	0.2
Toxaphene	<0.200	<0.200	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

- ☐ 2,4,5-trichlorophenoxy acetic acid
  Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
  Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
  Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
  Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
  Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
  Common Name HCP, CASRN 70-30-4

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

NA

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

☐ Yes ☒ No

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

NA

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

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

Grab ☐ Composite ☐

Date and time sample(s) collected: NA

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: 18

48-hour Acute: 9

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

NA

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
NA	NA	NA	NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 1 *(CIU ceased operations in 10/25/2024)

Average Daily Flows, in MGD: 0.0014986

Significant IUs - non-categorical:

Number of IUs: 4

Average Daily Flows, in MGD: 0.1020837 MGD (SIU1: 0.00052603, SIU2: 0.00033425, SIU3: 0.005768 & SIU4: 0.09545479)

Other IUs:

Number of IUs: NA

Average Daily Flows, in MGD: NA

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.

NA

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.

Mar. 28, 2022 – E. coli exceedance due to sample contamination – permit limit = 399 MPN/100 ml vs result = 816.4 MPN/100 ml

Aug. 17, 2023 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result 14.7 mg/L

*Oct. 14, 2023 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result 11.1 mg/L

*Dec. 12, 2024 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result = 12.1 mg/L

*Dec. 13, 2024 - Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result = 10.4 mg/L

*NCN exceedances only reported through NetDMR system. Refer to ATTACHMENT M.

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 90)

A. Substantial modifications

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

☐ Yes ☒ No

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

NA

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.

NA

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
NA	NA	NA	NA	NA

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.

NA

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

A. General information

Company Name: NA

SIC Code: NA

Contact name: NA

Address: NA

City, State, and Zip Code: NA

Telephone number: NA

Email address: NA

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).

NA

C. Product and service information

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

NA

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: NA

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: NA

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: NA

Click or tap here to enter text. NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

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.

NA

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. **TCEQ Program Area**

   Program Area (PST, VCP, IHW, etc.): NA

   Program ID: NA

   Contact Name: NA

   Phone Number: NA

2. **Agent/Consultant Contact Information**

   Contact Name: NA

   Address: NA

   City, State, and Zip Code: NA

   Phone Number: NA

3. **Owner/Operator Contact Information**

   ☐ Owner ☐ Operator

   Owner/Operator Name: NA

   Contact Name: NA

   Address: NA

   City, State, and Zip Code: NA

   Phone Number: NA

4. **Facility Contact Information**

   Facility Name: NA

   Address: NA

   City, State, and Zip Code: NA

   Location description (if no address is available): NA

   Facility Contact Person: NA

   Phone Number: NA

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: NA

Longitude: NA

Method of determination (GPS, TOPO, etc.): NA

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: NA

Number of Injection Wells: NA

7. **Purpose**

Detailed Description regarding purpose of Injection System:

NA

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: NA

City, State, and Zip Code: NA

Phone Number: NA

License Number: NA

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing	NA	NA	NA	NA	NA
Tubing	NA	NA	NA	NA	NA
Screen	NA	NA	NA	NA	NA

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: NA

System(s) Construction: NA

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: NA
2. Receiving Formation Name of Injection Zone: NA
3. Well/Trench Total Depth: NA
4. Surface Elevation: NA
5. Depth to Ground Water: NA
6. Injection Zone Depth: NA
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

   Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

   Name: NA

   Thickness: NA
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: NA
13. Maximum injection Rate/Volume/Pressure: NA
14. Water wells within 1/4 mile radius (attach map as Attachment I): NA
15. Injection wells within 1/4 mile radius (attach map as Attachment J): NA
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): NA
17. Sampling frequency: NA
18. Known hazardous components in injection fluid: NA

Section 5. Site History

1. Type of Facility: NA
2. Contamination Dates: NA
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): NA
4. Previous Remediation (attach results of any previous remediation as attachment M): NA

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

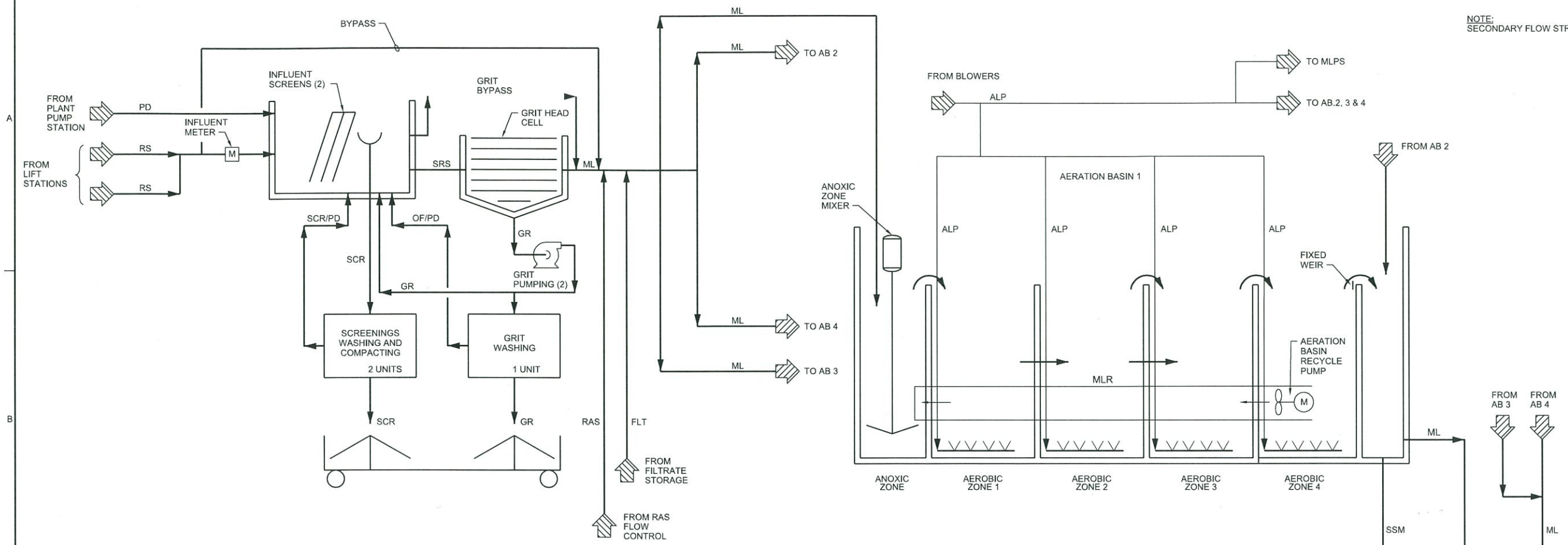
5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

Technical Report 1.0

ATTACHMENT H (page 4)

Robindale WWTP Process Flow Diagram

NOTE:
SECONDARY FLOW STREAMS NOT SHOWN.



DIGITALLY SIGNED ON JULY 25, 2012

STATE OF TEXAS · JOSEPH W. JENKINS · 85777 · REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	DJ GRIGSBY	DR RK COWAN CHK JW JENKINS		APVD DJ GRIGSBY

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BROWNSVILLE PUBLIC UTILITIES BOARD
BROWNSVILLE, TEXAS
ROBINDALE WWTP

CH2MHILL®
TPBE FIRM NO. 2297

GENERAL

LIQUIDS PROCESS FLOW DIAGRAM

ISSUED FOR CONSTRUCTION

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

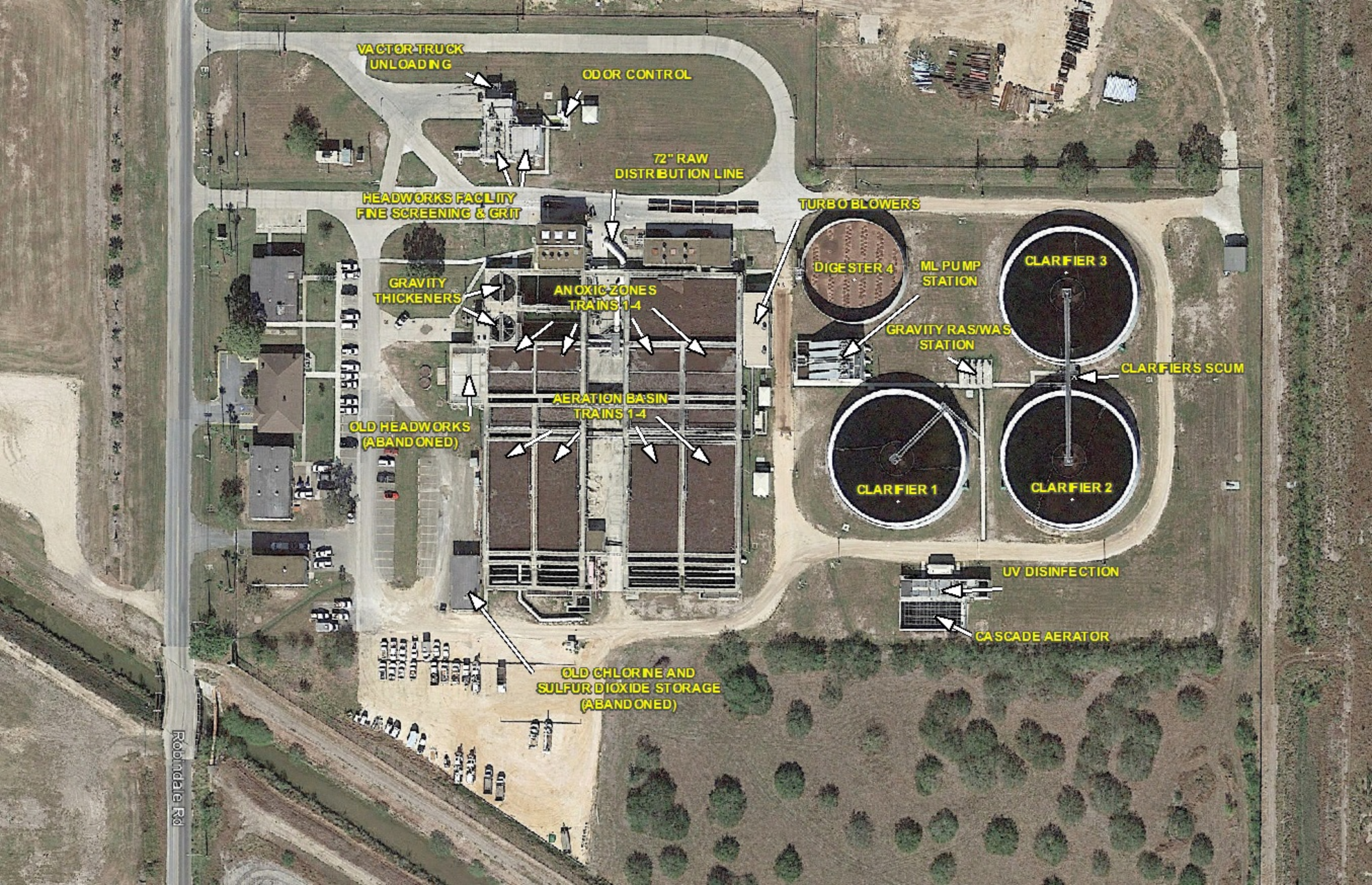
DATE	JULY 2012
PROJ	428307
DWG	01-G-0032
SHEET	23

FILENAME: 01-G-0032_428307.dgn PLOT DATE: 7/19/2012 PLOT TIME: 3:02:05 PM

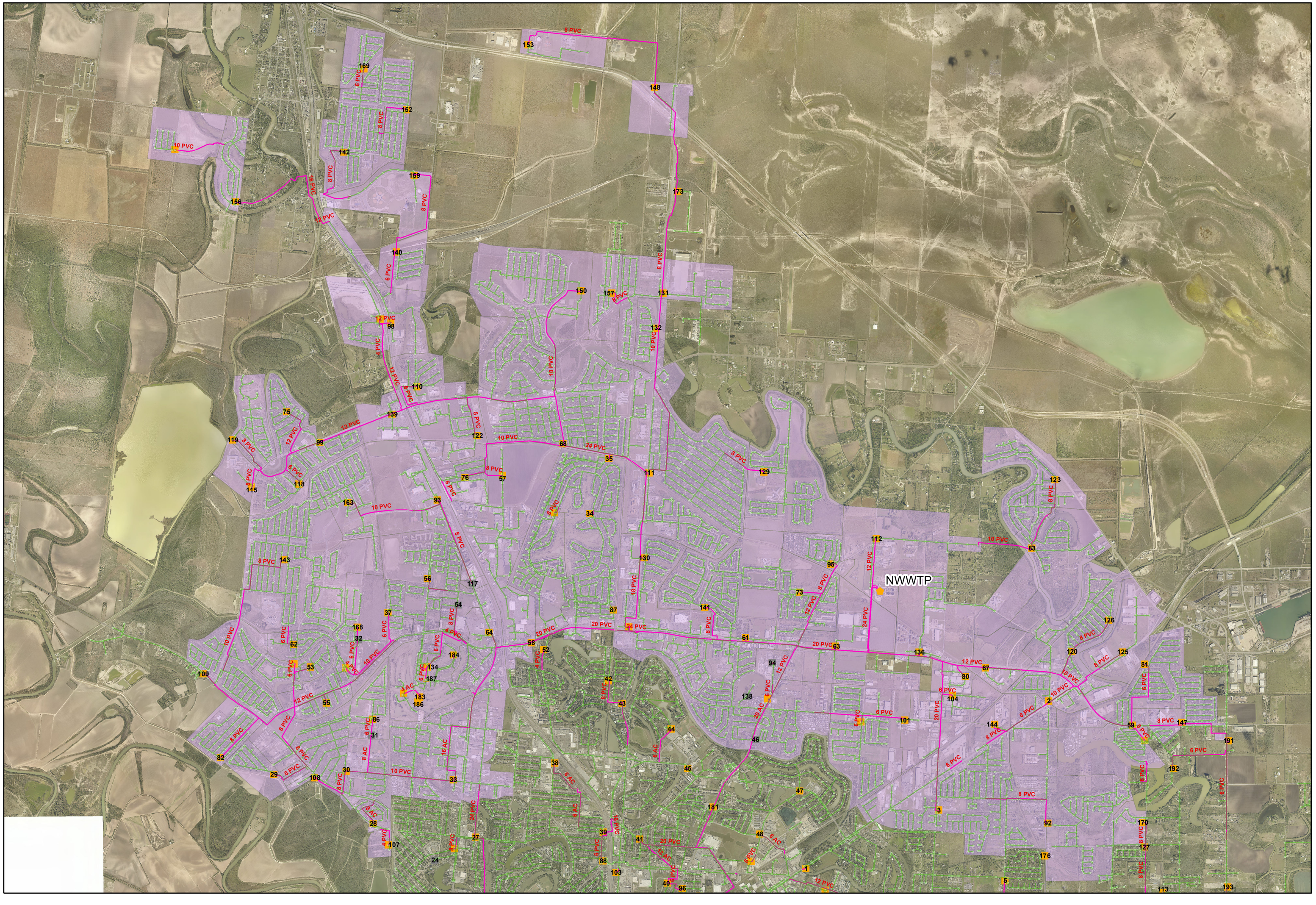
Technical Report 1.0

ATTACHMENT I (page 4)

Robindale WWTP Site Drawing


VACTOR TRUCK UNLOADING
ODOR CONTROL
72" RAW DISTRIBUTION LINE
HEADWORKS FACILITY FINE SCREENING & GRIT
TURBO BLOWERS
DIGESTER 4
ML PUMP STATION
CLARIFIER 3
GRAVITY THICKENERS
ANOXIC ZONES TRAINS 1-4
GRAVITY RAS/WAS STATION
CLARIFIERS SCUM
AERATION BASIN TRAINS 1-4
OLD HEADWORKS (ABANDONED)
CLARIFIER 1
CLARIFIER 2
UV DISINFECTION
CASCADE AERATOR
OLD CHLORINE AND SULFUR DIOXIDE STORAGE (ABANDONED)
Robindale Rd

NWWTP LIFTSTATION BOUNDRY



BROWNSVILLE PUBLIC UTILITIES BOARD

GEOGRAPHIC INFORMATION SYSTEMS DEPARTMENT

Legend

- Waste Water Treatment Plant
- Force Main
- Gravity Main

LIFT STATION BOUNDARIES

WWTP

- NWWTP

N

W E

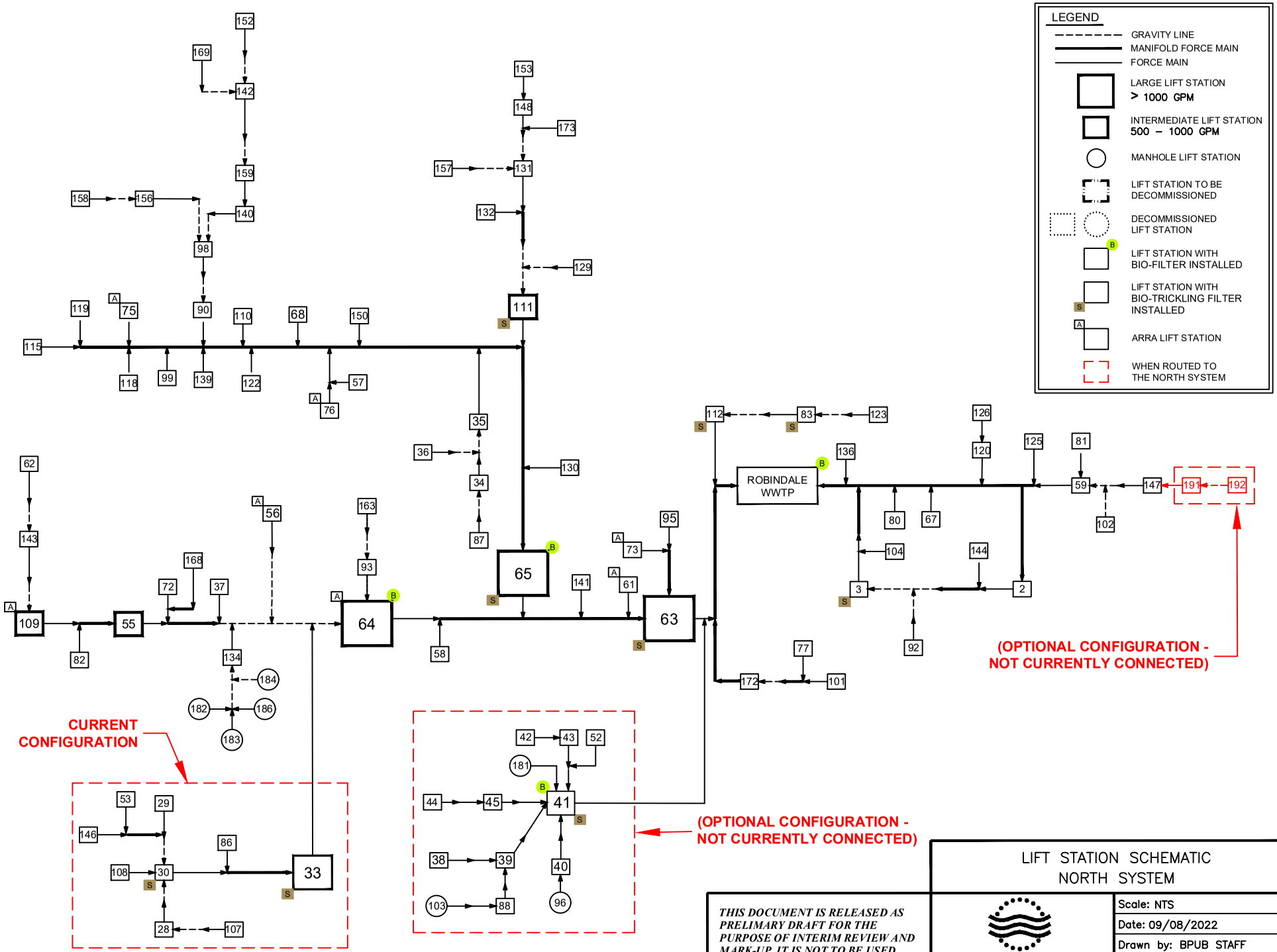
S

1 inch = 2,700 feet

DISCLAIMER - PUBLIC UTILITIES OF BROWNSVILLE

This map was created using data obtained from various sources, and created exclusively for the internal use of the Public Utilities Board of Brownsville. Portions of the information may be incorrect or not current. Any person or entity who relies on any information obtained from these maps does so at their own risk. Neither the Public Utilities Board of Brownsville, Texas, nor any agency, officer, or employee of the Public Utilities Board of Brownsville, Texas warrants the accuracy, reliability, or timeliness of such information.

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LEGEND
GRAVITY LINE
MANIFOLD FORCE MAIN
FORCE MAIN
LARGE LIFT STATION
> 1000 GPM
INTERMEDIATE LIFT STATION
500 – 1000 GPM
MANHOLE LIFT STATION
LIFT STATION TO BE DECOMMISSIONED
DECOMMISSIONED LIFT STATION
LIFT STATION WITH BIO-FILTER INSTALLED
LIFT STATION WITH BIO-TRICKLING FILTER INSTALLED
ARRA LIFT STATION
WHEN ROUTED TO THE NORTH SYSTEM
ROBINDALE WWTP
CURRENT CONFIGURATION
(OPTIONAL CONFIGURATION - NOT CURRENTLY CONNECTED)
(OPTIONAL CONFIGURATION - NOT CURRENTLY CONNECTED)
65
64
63
55
109
111
41
33
30
39
3
2
59
30
LIFT STATION SCHEMATIC
NORTH SYSTEM
THIS DOCUMENT IS RELEASED AS PRELIMARY DRAFT FOR THE PURPOSE OF INTERIM REVIEW AND MARK-UP. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMITTING PURPOSES.
BROWNSVILLE PUBLIC UTILITIES BOARD
Scale: NTS
Date: 09/08/2022
Drawn by: BPUB STAFF
Appr. by: –
NUMBER OF LIFT STATIONS: 88

Technical Report 1.0

ATTACHMENT J (page 8 and page 14)

Sludge Transporter Registration

Brownsville Public Utilities Board No. 23018

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

January 29, 2025

JOSE LECHUGA
PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
3208 ROBINDALE RD
BROWNSVILLE, TX 78526-5109

Re: Sludge Transportation Registration
BROWNSVILLE PUBLIC UTILITIES BOARD
Registration Number: 23018 **CN601658651** **RN103164091**

Dear Jose Lechuga:

The Section Manager of the Registration and Reporting Section has issued the enclosed registration in accordance with Title 30 of the Texas Administrative Code (30 TAC) Chapter 312 Subsection (§) 312.147 (b). This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality.

Issuance of this authorization is not an acknowledgment that your operation is in full compliance with state and federal rules and regulations. Failure to comply with all rules and regulations may result in enforcement action and/or the revocation of your registration.

Your registration number is required to appear on all tanks and containers used for the collection and transportation of sewage sludge and similar waste. It should also be used on all correspondence regarding your sludge registration.

A copy of your sludge transporter registration, a copy of your application for registration and copies of a amendments to this registration must be available at all times and at all locations where business is bein transacted under this registration, including all motorized vehicles operated under this registration.

If you have any questions or comments, please contact the Sludge Transporter Registration Program at (512) 239-6413.

Sincerely,

Shannon W. Frazier, Manager
Registration & Reporting Section

Enclosures
CC: TCEQ Region 15, HARLINGEN

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

K Keel

For the Commission

Print Date: January 29, 2025

Company: PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
Regulated Entity: BROWNSVILLE PUBLIC UTILITIES BOARD
Organization Type: CORPORATION
County: CAMERON
Transport Waste into Texas: NO

Registered Since: July 27, 2000
Expiration Date: August 31, 2026
Status: ACTIVE

TCEQ Region: 15
Transport Waste out of Texas: NO

Physical Address:
1425 ROBINHOOD ST
BROWNSVILLE, TX 78521-4230

Mailing Address:
3208 ROBINDALE RD
BROWNSVILLE, TX 78526-5109

Contact Information

Contact: JOSE LECHUGA

Phone: 956-983-6518

Fax: 956-574-6114

E-Mail: JLECHUGA@BROWNSVILLE-PUB.COM

Sticker Numbers Issued and Listed below will expire on August 31, 2026:

09449	09450	09451	09452	09453	09454	09455	09456	09457
09458	09459	09460	09461	09462	09463	09464	09465	09466
09467	09468	07565	07566	09599	04972			

This is your registration which reflects the information submitted on your application to the Register or Renew as a Transporter of Municipal Sludge(s) and Similar Wastes. Requirements for transportation are provided in accordance with 30 TAC Chapter 312. Issuance of this registration is not acknowledgement by the TCEQ that your operation is in full compliance with the rules and regulations of the TCEQ. Changes or additions referred to this notice require written notification to the TCEQ. Please keep a copy of this registration in every vehicle transporting sludge and all locations where business is being transacted under this registration.

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

K Keel

For the Commission

Print Date: January 29, 2025

Disposal Facility Information

Facility ID	Waste Type	Facility Name	Program
1273A	WT	CITY OF BROWNSVILLE MUNICIPAL LANDFILL	MSWDISP
WQ0010397005	WW	ROBINDALE WWTP	WWPERMIT

Waste Types

DS - Septic Tank Waste	**GT** - Grit Trap Waste	**WT** - Water Treatment Residuals
GS - Grease Trap Waste	**PP** - Chemical Toilet Waste	**WW**- Sewage Sludge/Biosolids

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

K Keel

For the Commission

Print Date: January 29, 2025

Vehicle Information

License Plate	Year	Vehicle Make	Sticker Issued	Vehicle Capacity
1343825	2019	FREIGHTLINER	07/30/2012	16 CY
1347387	2013	PETERBILT	01/03/2013	18 CY
1347389	2013	PETERBILT	01/03/2013	18 CY
1347388	2013	PETERBILT	01/03/2013	18 CY
1135376	2012	PETERBILT	11/02/2015	18 CY
1157417	2013	PETERBILT	11/02/2015	18 CY
1157418	2013	PETERBILT	11/02/2015	18 CY
1157419	2013	PETERBILT	11/02/2015	18 CY
1366869	2014	PETERBILT	11/02/2015	18 CY
1559537	2015	FREIGHTLINER	09/30/2016	16 CY
1347443	2017	FREIGHTLINER	04/03/2017	9 CY
1347444	2017	FREIGHTLINER	04/24/2017	9 CY
1369669	2018	FREIGHTLINER	03/21/2018	9 CY
1343787	2019	FREIGHTLINER 114SD	05/11/2018	18 CY
1343786	2019	FREIGHTLINER	06/08/2018	18 CY
1559534	2019	FREIGHTLINER	08/13/2018	16 CY
1343816	2019	FREIGHTLINER	08/13/2018	16 CY
1369727	2019	FREIGHTLINER	10/17/2019	500 GAL
1369760	2019	FREIGHTLINER	10/31/2019	20 CY
1469430	2022	FREIGHTLINER	04/06/2022	9 CY
1469502	2023	FREIGHTLINER	09/19/2022	
1559533	2025	FREIGHTLINER	07/23/2024	18 CY
1559532	2025	FREIGHTLINER	07/23/2024	18 CY
1559638	2025	FREIGHTLINER	11/13/2024	

*UOM - Units of Measure

Technical Report 1.0

ATTACHMENT K (page 8 and page 18)

Stormwater Certificate TXR05AL36 and WW Reuse Authorization
R10397-005

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Texas Pollutant Discharge Elimination System
Stormwater Multi-Sector General Permit

The Notice of Intent (NOI) for the facility listed below was received on November 4, 2021. The intent to discharge stormwater associated with industrial activity under the terms and conditions imposed by the Texas Pollutant Discharge Elimination System (TPDES) stormwater Multi-Sector General Permit (MSGP) TXR050000 is acknowledged. Your facility's unique TPDES MSGP stormwater authorization number is:

TXR05AL36
Coverage Effective: October 26, 2011
Sector: T Primary SIC code: 4952

TCEQ's stormwater MSGP requires certain stormwater pollution prevention and control measures, possible monitoring and reporting, and periodic inspections. Among the conditions and requirements of this permit, you must have prepared and implemented a stormwater pollution prevention plan (SWP3) that is tailored to your industrial site. As a facility authorized to discharge under the stormwater MSGP, all terms and conditions must be complied with to maintain coverage and avoid possible penalties.

Facility/Site Information:
RN102180205
Brownsville Pub Robindale Wwtp
3208 Robindale Rd 0.5 Mi N FM 802 On Robindale Rd
Brownsville, TX 78521
Cameron County

Operator:
CN603752932
Brownsville Public Utilities Board
PO BOX 3207
Brownsville, TX 78523

The MSGP and all authorizations expire on August 14, 2026, unless otherwise amended. If you have any questions related to your application, you may contact the Stormwater Processing Center by email at SWPERMIT@tceq.texas.gov or by telephone at (512) 239-3700. For technical issues, you may contact the stormwater technical staff by email at SWGP@tceq.texas.gov or by telephone at (512) 239-4671. Also, you may obtain information on the TCEQ web site at https://www.tceq.texas.gov/goto/wq-dpa. A copy of this document should be kept with your SWP3.

Issued Date: November 04, 2021

FOR THE COMMISSION

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

RECEIVED
DEC 11 2013
By

November 26, 2013

Mr. Juan R. Carrizales, Regulatory Compliance Specialist
Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

Re: Brownsville Public Utilities Board
Reuse Authorization Nos. R10397-003 & R10397-005
Cameron County
CN603752932, RN102179926 RN102180205

Dear Carrizales:

The Texas Commission on Environmental Quality has completed its review of the applications for the above referenced authorizations. The authorizations allow the reuse of Type I and Type II wastewater effluent from the Southside and Northside Wastewater Treatment Facilities.

Notify this office and the appropriate regional office at least 30 days before reclaimed water is distributed. If the plans and specifications for the project(s) have been approved, the authorization(s) will be activated and the facility will be issued monthly effluent report (MER) forms for reporting quality and quantity of reclaimed water used. See Requirement V (b) on page 8 of the attached authorizations.

Thank you for your cooperation during this review process. If you have any questions, please contact Louis C. Herrin, III of my staff at louis.herrin@tceq.texas.gov or (512) 239-4552.

Sincerely,

Chris Linendoll, E.I.T., Manager
Wastewater Permitting Section
Water Quality Division

CL/LCHIII/sw

AUTHORIZATION FOR RECLAIMED WATER

Authorization No. R10397-005

Producer: Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

Provider: Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

User: Any user within the service area authorized by the provider

Location: The wastewater treatment facility is located at 3208 Robindale Road, Cameron County, Texas.

Authorization: Type I and Type II reclaimed water from Brownsville Public Utilities Board Robindale Wastewater Treatment Facility (TPDES Permit No. WQ0010397005) to be used as for Type I irrigation of landscape, public parks, schoolyards, athletic fields, golf courses, food crops; fire protection; maintenance of off channel water bodies; toilet or urinal flush water; Type II irrigation of sod farms, limited access highway rights of way, golf courses, cemeteries, and landscaped areas surrounding commercial or industrial complexes; maintenance of impoundments or off channel water bodies; soil compaction or dust control; and cooling tower makeup water. The service area is shown in Section XI, Service Area Map.

This authorization contains the conditions that apply for the use of reclaimed water. The approval of reclaimed water use under Chapter 210 does not affect any existing water rights. If applicable, a reclaimed water use authorization in no way affects the need of a producer, provider, or user to obtain a separate water right authorization from the commission. This authorization does not allow irrigation of any area authorized for irrigation under a Texas Land Application Permit.

Issue Date: November 26, 2013

Zak Covar, Executive Director

I. General Requirements

A. No producer or provider may transfer reclaimed water to a user without first notifying the commission.

B. Reuse of untreated wastewater is prohibited.

C. Food crops that may be consumed raw by humans must not be spray irrigated. Food crops including orchard crops that will be substantially processed prior to human consumption may be spray irrigated. Other types of irrigation that avoid contact of reclaimed water with edible portions of food crops are acceptable.

D. There must be no nuisance conditions resulting from the distribution, the use, or storage of reclaimed water.

E. Reclaimed water must not be used in a way that degrades groundwater quality to a degree adversely affecting its actual or potential uses.

F. Reclaimed water stored in ponds must be prevented from discharging into waters in the state, except for discharges directly resulting from rainfall events or in accordance with a permit issued by the commission. All other discharges are unauthorized.

G. If an overflow of a holding pond occurs causing discharge into or adjacent to water in the state, the user or provider, as appropriate, shall report the noncompliance. A written submission of pertinent information must be provided to the TCEQ Region 15 office in Harlingen and to the TCEQ Enforcement Division (MC-149) in Austin, within five (5) working days after becoming aware of the overflow. The submission must contain:

1. a description of the noncompliance and its cause;
2. the potential danger to human health or safety, or the environment;
3. the period of noncompliance, including exact dates and times;
4. if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
5. steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

H. Unless otherwise provided in this authorization, there must be no off-site discharge, either airborne or surface runoff of reclaimed water from the user's property except to a wastewater treatment collection system or wastewater treatment facility unless the reclaimed water user applies for and obtains a permit from the commission that authorizes discharge of the water.

I. All reclaimed water piping must be separated from potable water piping when trenched by a distance of at least nine feet for Type II effluent and four feet For Type I. All buried pipe must be manufactured in purple, painted purple, taped with purple metallic tape or bagged in purple. All exposed piping, hose bibs and faucets must be painted purple, designed to prevent connection to a standard water hose, and stenciled with a warning reading "NON-POTABLE WATER."

J. The design of any new distribution system that will convey reclaimed water to a user requires the approval of the executive director. Materials must be submitted to the executive director in accordance with the Texas Engineering Practice Act (Article 3271a, Vernon's Annotated Texas Statutes). The plans and specifications for any new

distribution system constructed pursuant to this authorization must be approved by the executive director. Failure to secure approval before commencing construction or making a transfer of reclaimed water is a violation of this authorization. Each day of a transfer is a separate violation until approval has been secured.

K. Nothing in this authorization modifies any requirements in 30 TAC Chapter 290, Public Drinking Water.

L. A major change from a prior notification for use of reclaimed water must be approved by the executive director before it can be implemented. A major change includes:

1. a change in the boundary of the approved service area, not including the conversion of individual lots within a subdivision to reclaimed water use;
2. the addition of a new provider;
3. a major change in the intended use, such as conversion from irrigation of a golf course to residential irrigation; or
4. a change from either Type I or Type II use to the other.

M. The reclaimed water producer, provider, and user shall maintain current operation and maintenance plans on the sites over which they have operational control. The operation and maintenance plan must contain the following, as a minimum:

1. a copy of the signed contract between the user and provider and a copy of the signed contract between the provider and the producer, as applicable;
2. a labeling and separation plan for the prevention of cross connections between reclaimed water distribution lines and potable water lines;
3. the measures that will be implemented to prevent unauthorized access to reclaimed water facilities (e.g., secured valves);
4. procedures for monitoring reclaimed water;
5. a plan for how reclaimed water use will be scheduled to minimize the risk of inadvertent human exposure;
6. schedules for routine maintenance;
7. a plan for worker training and safety; and
8. contingency plan for system failure or upsets.

N. One of the following requirements must be met by the user or provider, for any area where reclaimed water is stored or where there are hose bibs or faucets:

1. Signs having a minimum size of eight inches by eight inches must be posted at all storage areas and on all hose bibs and faucets reading, in both English and Spanish, "Reclaimed Water, Do Not Drink" or similar warning.
2. The area must be secured to prevent access by the public.

O. Where a reclaimed water line parallels a sewer line, the reclaimed water line must be constructed in accordance with subsection (p) or (q) of this section. The horizontal separation distance must be three feet (outside to outside) with the reclaimed water line at the level of or above the sewer line. Reclaimed water lines that parallel sewer lines may be placed in the same benched trench. Where a reclaimed water line crosses a sewer line,

the requirement of 30 TAC §290.44(e)(4)(B), Water Line Installation—crossing lines, must be followed with the reclaimed water line substituted for the water line.

P. Reclaimed water pipes must meet the following requirements:

1. Lines that transport reclaimed water under pressure must be sized according to acceptable engineering practices for the needs of the reclaimed water users.
2. Reclaimed water force mains must have an expected life of at least as long as that of the associated lift station and must be suitable for the reclaimed water being pumped and operating pressure to which it will be subjected.
3. Pipes must be identified in the technical specifications with appropriate American Society for Testing and Materials, American National Standard Institute, or American Water Works Association standard numbers for both quality control (dimensions, tolerance, and installation such as bedding or backfill).
4. Pipes and fittings must have a minimum working pressure rating of 150 pounds per square inch.
5. Final plans and specifications must describe required pressure testing for all installed reclaimed water force mains.
6. Minimum test pressure must be 1.5 times the maximum design pressure. Allowable leakage rates must be determined as described in 30 TAC §217.97, Pressure Sewer Systems.
7. Gravity flow reclaimed water lines must meet the requirements of 30 TAC Chapter 217, Subchapter C, Conventional Collection Systems. The provider shall prevent high velocity scouring and maintain adequate fluid velocity to prevent the deposition of solids in the lines.

Q. All exposed piping and piping within a building must be either purple pipe or painted purple. All exposed piping should be stenciled in white with a warning reading "NON-POTABLE WATER". All exposed or buried reclaimed water piping constructed at a wastewater treatment facility is exempt from the color-coding requirement of this section.

R. When applicable, in accordance with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems, the design of the distribution systems that will convey reclaimed water to a user must be submitted to the executive director and must receive an approval before the distribution system may be constructed. The design of the distribution systems must meet the criteria of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. When a municipality is the plan review authority for certain sewer systems that transport primarily domestic waste, in lieu of the commission, design submittal will not be subject to submittal to the commission and instead must be approved by the municipality.

S. All ground level and elevated storage tanks must be designed, installed, and constructed in accordance with current AWWA standards with reference to materials to be used and construction practices to be followed, except for health-based standards strictly related to potable water storage and contact practices, where appropriately less restrictive standards may be applied.

II. Storage Requirements for Reclaimed Water

A. Storage facilities for retaining reclaimed water prior to use must not be located within a floodway.

B. Storage ponds must be hydraulically separated from waters in the state.

C. Any holding pond designed to contain Type I effluent and Type II effluent that is located within a DRASTIC Pollution Potential Index Zone of less than 110, shall conform to the following requirements:

1. Ponds with an earthen liner must meet the following requirements
   a. A permeability of less than 1×10^{-4} cm/sec;
   b. The ponds must be designed and constructed to prevent groundwater contamination;
   c. Soils used for pond lining must be free from foreign material such as paper, brush, trees, and large rocks; and
   d. All soil liners must be of compacted material, at least 24 inches thick, compacted in lifts no greater than 6 inches thick and compacted to 95% of Standard Proctor Density;
   e. Soil liners must meet the following particle size gradation and Atterberg limits:
      i. 30% or more passing a number 200 mesh sieve; and
      ii. a liquid limit of 30% or greater; and
      iii. a plasticity index of 15 or greater;
   f. In situ liners at least 24 inches thick meeting a permeability less than or equal to 1×10^{-4} cm/sec are acceptable alternatives; In-situ clay soils meeting the soils liner requirements must be excavated and re-compacted a minimum of 6 inches below planned grade to assure a uniformly compacted finished surface.

D. Synthetic membrane linings must have a minimum thickness of 40 mils and have a leak detection system;

E. Certification by a Texas licensed professional engineer must be furnished stating that the pond liner meets the appropriate criteria prior to use of the facilities;

F. Soil embankment walls must have a top width of at least five feet. The interior and exterior slopes of soil embankment walls must be no steeper than one foot vertical to three feet horizontal unless alternate methods of slope stabilization are used. All soil embankment walls must be protected by a vegetative cover or other stabilizing material to prevent erosion. Erosion stops and water seals must be installed on all pipe penetrating the embankments; and

G. An alternative method of pond lining that provides equivalent or better water quality protection than provided under this section may be utilized with the prior approval of the executive director; and

H. Reclaimed water may be stored in leak-proof, fabricated tanks;

I. Subsequent holding ponds utilized for the receipt and storage of reclaimed water of a quality that could cause or causes a violation of a surface water quality standard or

impairment of groundwater for its actual or intended use will be also subject to the storage requirements of this section.

III. Specific Uses and Quality Standards for Reclaimed Water

A. Numerical parameter limits pertaining to specific reclaimed water use categories are contained in this section. These limits apply to reclaimed water before discharge to initial holding ponds or a reclaimed water distribution system.

B. The reclaimed water producer shall establish that the reclaimed water meets the quality limits at the sample point for the intended use in accordance with the monitoring requirements identified in Section IV, Sampling and Analysis.

C. Types and quality standards for reclaimed water.

1. Type I Reclaimed Water Use. The use of Type I reclaimed water is for situations where the public may come in contact with the reclaimed water. The uses allowed by this authorization are:

   a. Irrigation: landscape, public parks, schoolyards, athletic fields, golf courses, and food crops

   b. Fire protection

   c. Maintenance of any off channel water bodies where recreational activities, such as wading or fishing, are anticipated even though the water body was not specifically designed for such a use.

   d. Toilet or urinal flush water.

   e. Type I reclaimed water may also be used for any of the authorized Type II uses.

2. The following conditions apply to Type I use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality as described for Type I reclaimed water use. Type I reclaimed water on a 30-day average must have a quality of no more than:

Table 1. Type I Quality Requirements

Parameter	Limit	Limit Type
Turbidity	3 NTUs	30-day average
BOD_5	5 mg/l	30-day average
E. coli	20/100 ml	30-day geometric mean (MPN or CFU)
E. coli	75/100 ml	maximum single grab sample (MPN or CFU)

3. Type II Reclaimed Water Use. The use of Type II reclaimed water is for situations where the public will not be exposed to the reclaimed water. The uses allowed by this authorization are:

a. Irrigation of sod farms, limited access highway rights of way, golf courses, cemeteries, and landscaped areas surrounding commercial or industrial complexes.
b. Maintenance of off channel water bodies where direct human contact is not likely.
c. Soil compaction or dust control in construction areas where application procedures minimize aerosol drift to public areas.
d. Cooling tower makeup water.

4. The following conditions apply to Type II use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality. Type II reclaimed water on a 30-day average must have a quality of no more than:

Table 2. Type II Quality Requirements

Parameter	Limit	Limit Type
BOD_5	20 mg/l	30-day average
E. coli	200/100 ml	30-day geometric mean (MPN or CFU)
E. coli	800/100 ml	maximum single grab sample (MPN or CFU)

D. Test Procedures

1. Test procedures for the analysis of pollutants must comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations must accurately represent the reclaimed water.

2. All laboratory tests submitted to demonstrate compliance with this authorization must meet the requirements of 30 TAC Chapter 25, *Environmental Testing Laboratory Accreditation and Certification.*

IV. Sampling and Analysis

A. The reclaimed water producer shall sample the reclaimed water prior to distribution to the entity that first received the reclaimed water after it leaves the wastewater treatment facility (provider or user) to assure that the water quality meets the standard for the contracted use.

B. Analytical methods must be in compliance with 30 TAC Chapter 319, *Monitoring and Reporting*.

C. The minimum sampling and analysis frequency for Type I reclaimed water is twice per week when reclaimed water is being produced and shall be reported as outfall 800.

D. The minimum sampling and analysis frequency for Type II reclaimed water is once per week when reclaimed water is being produced and shall be reported as outfall 900.

E. The monitoring must be done after the final treatment unit.

F. The records of the monitoring must be kept on a monthly basis and be available at the facility site for inspection by representatives of the Commission for at least five years.

V. Record Keeping and Reporting

A. The reclaimed water provider and user shall maintain records on site for a period of at least five years.

B. The producer shall maintain the following records:

1. copies of notifications made to the commission concerning reclaimed water projects;

2. as applicable, copies of contracts with each reclaimed water user (this requirement does not include reclaimed water users at residences that have separate distribution lines for potable water);

3. records of the volume of water delivered to each reclaimed water user per delivery (this requirement does not apply to reclaimed water users at residences that have separate distribution lines for potable water); and

4. reclaimed water quality analyses.

C. The reclaimed water producer shall report to the commission on a monthly basis the following information on forms furnished by the executive director. The reports are due by the 20th day of the month following the reporting period.

1. volume of reclaimed water delivered to each user; and

2. quality of reclaimed water delivered to a user or provider reported as a monthly average for each quality criteria, except those listed as "not to exceed" that must be reported as individual analyses.

D. Monitoring requirements contained in the authorization are suspended from the effective date of the authorization until the reclaimed water is transferred. The provider shall provide written notice to the Water Quality Application Team (MC 148) and the appropriate TCEQ regional office at least thirty (30) days prior to transfer of reclaimed water.

VI. Transfer of Reclaimed Water

A. Reclaimed water must transferred from a provider to a user on a demand only basis. A reclaimed water user may refuse delivery of reclaimed water at any time.

B. All reclaimed water transferred to a user must be of at least the quality specified in Section IV, *Sampling and Analysis*.

C. Transfer must be by pipes or tank trucks.

D. The transfer of reclaimed water must be terminated immediately if a provider becomes aware of the misuse of the reclaimed water by the user, regardless of contract provisions.

VII. Restrictions

A. This authorization does not convey any property right and does not grant any exclusive privilege.

B. This authorization does not allow the use of reclaimed water on land that is authorize as a disposal site under either a Texas Pollutant Discharge Elimination System (TPDES) permit or a Texas Land Application Permit (TLAP).

VIII. Responsibilities and Contracts

A. The producer of reclaimed water is not liable for misapplication of reclaimed water by users, except as provided in this section. Both the reclaimed water provider and user

have at least but are not limited to the following responsibilities:

1. The reclaimed water producer shall: transfer reclaimed water of at least the minimum quality required by this chapter at the point of delivery to the user;

   a. sample and analyze the reclaimed water and report the analyses in accordance with Section IV, Sampling and Analysis, and Section V, Recordkeeping and Reporting; and

   b. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director.

2. The reclaimed water provider shall:

   a. ensure construction of reclaimed water distribution systems in accordance with 30 TAC Chapter 217, Design of Domestic Wastewater Systems, and in accordance with approved plans and specifications;

   b. transfer reclaimed water of at least the minimum quality required by this authorization at the point of delivery to the user;

   c. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director; and

   d. not be found in violation of this chapter for the misuse of the reclaimed water by the user if transfer of such water is shut off promptly upon knowledge of misuse regardless of contract provisions.

3. The reclaimed water user shall:

   a. use the reclaimed water in accordance with this authorization; and

   b. maintain and provide records as required by Section V, Record Keeping and Reporting.

IX. Enforcement

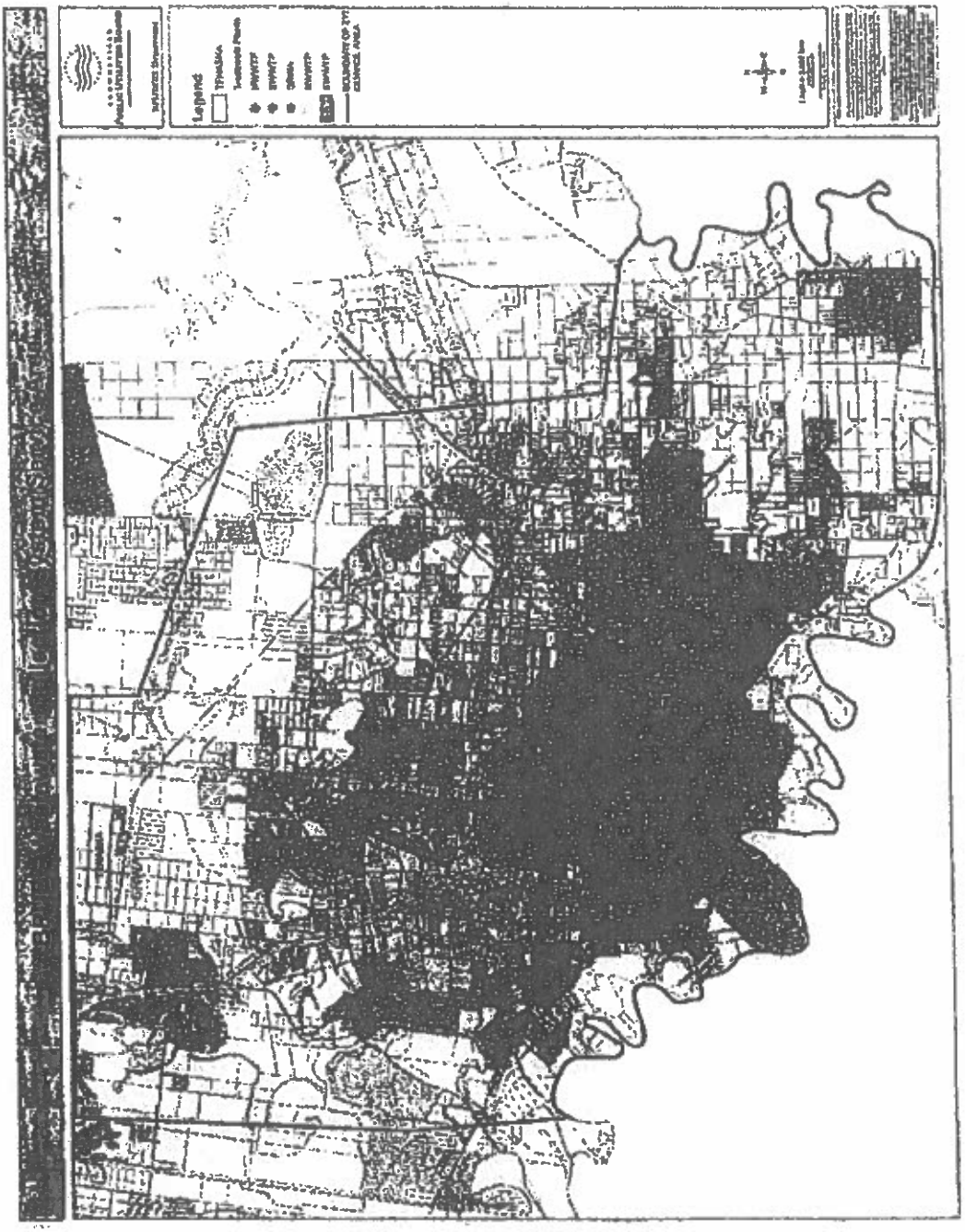
If the producer, provider, or user fail to comply with the terms of this authorization, the executive director may take enforcement action provided by the Texas Water Code §26.019 and §26.0136.

X. Standard Provisions

A. This authorization is granted in accordance with the rules and orders of the commission and the laws of the state of Texas.

B. Acceptance of this authorization constitutes an acknowledgment and agreement that the producer, provider and user will comply with all the terms, provisions, conditions, limitations and restrictions embodied in this authorization and with the rules and other orders of the commission and the laws of the state of Texas. Agreement is a condition precedent to the granting of this authorization.

XI. Service Area Map



Technical Report 1.1 - Worksheet 4.0

ATTACHMENT L (page 12 and page 46)

Analytical Lab Reports

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

March 11, 2025

Mr. Gabriel Coronado
Brownsville Public Utilities Board Analytical Laboratory
1385 PUB Drive
Brownsville, TX 78521-3270

Subject: Texas NELAP accreditation renewal

Dear Mr. Coronado:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's NELAP accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

I am enclosing an accreditation certificate and listing of your laboratory's fields of accreditation. Please review the enclosures for accuracy and completeness.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on
Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Brownsville Public Utilities Board Analytical Laboratory

1385 PUB Drive,
Brownsville, TX 78521-3270

State Lab ID: T104704357
Effective Date: 04/01/2025
Expiration Date: 03/31/2026
Certificate ID: TX-C25-00073

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/or BT (biological tissue).

K Keel

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/01/2025

TEXAS Accreditation Certificate
Brownsville Public Utilities Board Analytical Laboratory
State Lab ID: T104704357

Certificate ID: TX-C25-00073
Effective Date: 04/01/2025
Expiration Date: 03/31/2026

Laboratory Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	AB
DW	EPA 120.1	10006403	Conductivity	1610	TX
DW	EPA 130.2	10007202	Total hardness as CaCO3	1755	TX
DW	EPA 300.1	10275602	Chlorite	1595	TX
DW	SM 9215 B	20180001	Heterotrophic plate count	2555	TX
DW	SM 9223 B (Colilert Quanti-Tray)	20211603	Escherichia coli (E. coli)	2525	TX
DW	SM 9223 B (Colilert Quanti-Tray)	20211603	Total coliforms	2500	TX
DW	SM 9223 B (Colilert)	20212413	Total coliforms and E. coli (P/A)	2502	TX
DW	SM 9223 B (Colilert-18)	20214602	Escherichia coli (E. coli)	2525	TX
DW	SM 9223 B (Colilert-18)	20214602	Total coliforms	2500	TX
DW	SM 9223 B (Colilert-18)	20214602	Total coliforms and E. coli (P/A)	2502	TX
NPW	Enterolert	60030208	Enterococci	2520	TX
NPW	EPA 160.2	10009606	Residue-nonfilterable (TSS)	1960	TX
NPW	EPA 160.3	10010001	Residue-total (TS)	1950	TX
NPW	EPA 160.4	10010409	Residue-volatile	1970	TX
NPW	EPA 180.1	10011606	Turbidity	2055	TX
NPW	EPA 330.5	10059606	Total Residual Chlorine	1940	TX
NPW	EPA 350.3	10064401	Ammonia as N	1515	TX
NPW	SM 2510 B	20048004	Conductivity	1610	TX
NPW	SM 2540 B	20004608	Residue-total (TS)	1950	TX
NPW	SM 2540 C	20049803	Residue-filterable (TDS)	1955	TX
NPW	SM 2540 D	20004802	Residue-nonfilterable (TSS)	1960	TX
NPW	SM 4500-Cl G	20020604	Total Residual Chlorine	1940	TX
NPW	SM 4500-H+ B	20104603	pH	1900	TX
NPW	SM 4500-NH3 D	20108809	Ammonia as N	1515	TX
NPW	SM 5210 B	20027401	Biochemical Oxygen Demand (BOD)	1530	TX
NPW	SM 5210 B	20027401	Carbonaceous BOD (CBOD)	1555	TX
NPW	SM 9221 E plus C	20195806	Fecal coliforms	2530	TX
NPW	SM 9223 B (Colilert Quanti-Tray)	20211205	Escherichia coli (E. coli)	2525	TX

Non-contiguous location:

1385 PUB Drive
Brownsville, TX 78520-3270

2800 East University Boulevard
Brownsville, TX 78521

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Approved Drinking Water Laboratory

The following laboratory is currently approved for the Drinking Water analytes listed. If a change occurs to the methods, instruments or analytes tested, please submit a new form. For questions related to the approval please call (512) 239-4691.

Brownsville PUB - Analytical Laboratory

Vicente Guerrero III
1385 PUB Dr.
Brownsville, TX 78520

Lab ID: 48116
Accreditation ID: T104704357

Approval Date: 12/23/2022
Phone Number: 956-983-6355
Fax Number: (956) 983-6359

Analyte	Method	Valid Until
Alkalinity	2320B	12/23/2025
Calcium	3500-CA B	12/23/2025
Chlorine Dioxide	4500CLO2-E	12/23/2025
Conductivity	2510B	12/23/2025
Free Chlorine	4500CL-G	12/23/2025
pH	4500H-B	12/23/2025
POE Chlorite	4500CLO2-E	12/23/2025
Temperature	2550	12/23/2025
TOC	5310B	12/23/2025
Total Chlorine	4500CL-G	12/23/2025
Turbidity	2130B	12/23/2025
UV254	5910B	12/23/2025

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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Project
1126302

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Printed 12/12/2024
10:38

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1126302_r10_05_ProjectQC	SPL Kilgore Project P:1126302 C:PUB6 Project Quality Control Groups	34
1126302_r99_09_CoC__1_of_2	SPL Kilgore CoC PUB6 1126302_1_of_2	10
1126302_r99_09_CoC__2_of_2	SPL Kilgore CoC PUB6 1126302_2_of_2	2
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SAMPLE CROSS REFERENCE

Project 1126302

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Sample	Sample ID	Taken	Time	Received
2357077	*ROBINDALE WWTP Permit Renewal*	11/20/2024	12:00:00	11/21/2024

Bottle 01 Amber 32 Oz
Bottle 02 Amber 32 Oz
Bottle 03 Amber 32 Oz
Bottle 04 Amber 32 Oz
Bottle 05 Amber 32 Oz
Bottle 06 Amber 32 Oz
Bottle 07 Amber 32 Oz
Bottle 08 Amber 32 Oz
Bottle 09 Amber 32 Oz
Bottle 10 Amber 32 Oz
Bottle 11 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 12 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 13 16 oz HNO3 Metals Plastic
Bottle 14 Cr+6 Preserved 250 Polyethylene
Bottle 15 Client supplied HCl Clean Metals Bottle
Bottle 16 Prepared Bottle. 2 mL Autosampler Vial (Batch 1148986) Volume: 1.00000 mL <== Derived from 01 (988 ml)
Bottle 17 Prepared Bottle: Mercury Preparation for Metals (Batch 1149203) Volume: 50.00000 mL <== Derived from 15 (47 ml)
Bottle 18 Prepared Bottle: ICP Preparation for Metals (Batch 1149442) Volume: 50.00000 mL <== Derived from 13 (50 ml)
Bottle 19 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1149461) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 20 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1149462) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 21 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1149463) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 22 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1149464) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 23 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149479) Volume: 5.00000 mL <== Derived from 02 (980 ml)
Bottle 24 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149630) Volume: 1.00000 mL <== Derived from 04 (965 ml)
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149646) Volume: 10.00000 mL <== Derived from 05 (1006 ml)
Bottle 26 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149679) Volume: 1.00000 mL <== Derived from 11 (803 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	20	1149462	11/25/2024	1150009	11/26/2024
EPA 608.3	22	1149464	11/25/2024	1149931	11/26/2024
EPA 615	25	1149646	11/26/2024	1150042	11/27/2024
EPA 632	19	1149461	11/25/2024	1150275	11/27/2024
EPA 300.0 2.1	01	1149220	11/22/2024	1149220	11/22/2024
EPA 604.1	23	1149479	11/25/2024	1151420	12/10/2024
EPA 617	20	1149462	11/25/2024	1149957	11/26/2024
EPA 625.1	24	1149630	11/26/2024	1150158	11/27/2024
ASTM D7065-11	26	1149679	11/26/2024	1150300	12/02/2024
TX 1001	16	1148986	11/21/2024	1149585	11/25/2024
EPA 200.8 5.4	18	1149442	11/25/2024	1149779	11/26/2024

Email: Kilgore.ProjectManagement@spllabs.com

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
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Bottle 01 Amber 32 Oz
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Bottle 07 Amber 32 Oz
Bottle 08 Amber 32 Oz
Bottle 09 Amber 32 Oz
Bottle 10 Amber 32 Oz
Bottle 11 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 12 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 13 16 oz HNO3 Metals Plastic
Bottle 14 Cr+6 Preserved 250 Polyethylene
Bottle 15 Client supplied HCl Clean Metals Bottle
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1148986) Volume: 1.00000 mL <== Derived from 01 (988 ml)
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Bottle 23 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149479) Volume: 5.00000 mL <== Derived from 02 (980 ml)
Bottle 24 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149630) Volume: 1.00000 mL <== Derived from 04 (965 ml)
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149646) Volume: 10.00000 mL <== Derived from 05 (1006 ml)
Bottle 26 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149679) Volume: 1.00000 mL <== Derived from 11 (803 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	18	1149442	11/25/2024	1149700	11/26/2024
EPA 245.7 2	17	1149203	11/22/2024	1149264	11/22/2024
Calculation			11/27/2024		11/27/2024
SM 3500-Cr B-2011	14	1149332	11/21/2024	1149332	11/21/2024
SM 3500-Cr B-2011		1149181	11/20/2024	1149181	11/20/2024
EPA 622	21	1149463	11/25/2024	1150821	12/02/2024

Sample	Sample ID	Taken	Time	Received
2357078	*ROBINDALE WWTP Permit Renewal*	11/20/2024	12:00:00	11/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
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SAMPLE CROSS REFERENCE

Project
1126302

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene Quart
Bottle 03 8 oz Plastic H2SO4 pH < 2
Bottle 04 BOD Titration Beaker A (Batch 1149134) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 05 BOD Analytical Beaker B (Batch 1149134) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 06 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1149141) Volume: 20.00000 mL <== Derived from 03 (20 ml)
Bottle 07 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1149129) Volume: 6.00000 mL <== Derived from 03 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1149606	11/25/2024	1149606	11/25/2024
EPA 300.0 2.1	01	1149256	11/21/2024	1149256	11/21/2024
SM 2320 B-2011	02	1149811	11/26/2024	1149811	11/26/2024
SM 5210 B-2016 (TCMP Inhibitor)	01	1149134	11/27/2024	1149134	11/27/2024
SM 2510 B-2011	01	1149523	11/26/2024	1149523	11/26/2024
EPA 350.1 2	07	1149129	11/22/2024	1149518	11/25/2024
SM 2540 C-2015	02	1150150	11/26/2024	1150150	11/26/2024
EPA 351.2 2	06	1149141	11/22/2024	1149432	11/25/2024
SM 4500-P E-2011	03	1149490	11/25/2024	1149490	11/25/2024
SM 2540 D-2015	01	1149250	11/21/2024	1149250	11/21/2024

Sample	Sample ID	Taken	Time	Received
2357084	*ROBINDALE WWTP Permit*	11/20/2024	09:30:00	11/21/2024

Bottle 01 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 02 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 03 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 04 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 05 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 06 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 07 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 08 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 09 Bottle, QEC, 16oz Plastic U016 (100 ea)
Bottle 10 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 11 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 13 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 14 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 15 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 16 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 17 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1149200) Volume: 6.00000 mL <== Derived from 06 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	04	1149416	11/22/2024	1149416	11/22/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2357084	*ROBINDALE WWTP Permit*	11/20/2024	09:30:00	11/21/2024

Bottle 01 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 02 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 03 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 04 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 05 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 06 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 07 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 08 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 09 Bottle, QEC, 16oz Plastic U016 (100 ea)
Bottle 10 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 11 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 13 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 14 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 15 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 16 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 17 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1149200) Volume: 6.00000 mL <== Derived from 06 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	04	1149420	11/22/2024	1149420	11/22/2024
SM 4500-CN⁻ G-2016			11/26/2024		11/26/2024
SM 4500-CN⁻ G-2016	14	1149140	11/22/2024	1149460	11/25/2024
SM 4500-CN⁻ E-2016	11	1149138	11/22/2024	1149459	11/25/2024
SM 4500-O G-2016		1149000	11/20/2024	1149000	11/20/2024
EPA 1664B (HEM)	10	1150432	12/03/2024	1150432	12/03/2024
EPA 420.4 1	17	1149200	11/22/2024	1149743	11/27/2024
SM 2550 B - 2010		1149002	11/20/2024	1149002	11/20/2024
SM 4500-H+ B-2011		1149001	11/20/2024	1149001	11/20/2024

Sample	Sample ID	Taken	Time	Received
2357969	*ROLANDALE WWTP Permit Renewal*	11/21/2024	07:40:00	11/22/2024

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 4500-Cl G-2011		1149280	11/21/2024	1149280	11/21/2024
Subcontract			11/21/2024		11/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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RESULTS

Sample Results

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

ASTM D7065-11 Prepared: 1149679 11/26/2024 15:30:00 Analyzed 1150300 12/02/2024 19:35:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
	Nonylphenol	<37.4	ug/L	37.4		25154-52-3	26

Calculation Prepared: 11/27/2024 08:19:07 Calculated 11/27/2024 08:19:07 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trivalent Chromium	<0.003	mg/L	0.003		16065-83-1	

EPA 200.8 5.4 Prepared: 1149442 11/25/2024 10:00:00 Analyzed 1149700 11/26/2024 13:43:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.00817	mg/L	0.00171		7429-90-5	18
NELAC	Antimony, Total	<0.00376	mg/L	0.00376		7440-36-0	18
NELAC	Barium, Total	0.0314	mg/L	0.001		7440-39-3	18
NELAC	Beryllium, Total	<0.0005	mg/L	0.0005		7440-41-7	18
NELAC	Cadmium, Total	<0.001	mg/L	0.001		7440-43-9	18
NELAC	Chromium, Total	<0.001	mg/L	0.001		7440-47-3	18
NELAC	Copper, Total	0.00308	mg/L	0.00155		7440-50-8	18
NELAC	Lead, Total	<0.0005	mg/L	0.0005		7439-92-1	18
NELAC	Nickel, Total	0.00247	mg/L	0.00112		7440-02-0	18
NELAC	Thallium, Total	<0.0005	mg/L	0.0005		7440-28-0	18
NELAC	Zinc, Total	0.0224	mg/L	0.001		7440-66-6	18

EPA 200.8 5.4 Prepared: 1149442 11/25/2024 10:00:00 Analyzed 1149779 11/26/2024 17:03:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	0.00185	mg/L	0.0005		7440-38-2	18
NELAC	Selenium, Total	0.0024	mg/L	0.002		7782-49-2	18
NELAC	Silver, Total	<0.0002	mg/L	0.0002		7440-22-4	18

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Office: 903-984-0551 * Fax: 903-984-5914

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 245.7 2 Prepared: 1149203 11/22/2024 10:00:00 Analyzed 1149264 11/22/2024 13:45:00 MPI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	<5.32	ng/L	5.32		7439-97-6	17

EPA 300.0 2.1 Prepared: 1149220 11/22/2024 06:28:00 Analyzed 1149220 11/22/2024 06:28:00 TTC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Fluoride	<0.500	mg/L	0.500			01

EPA 604.1 Prepared: 1149479 11/25/2024 15:00:00 Analyzed 1151420 12/10/2024 07:22:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
2	Hexachlorophene	<2.55	ug/L	2.55		70-30-4	23

EPA 608.3 Prepared: 1149462 11/25/2024 14:00:00 Analyzed 1150009 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.010	ug/L	0.010		72-54-8	20
NELAC	4,4-DDE	<0.010	ug/L	0.010		72-55-9	20
NELAC	4,4-DDT	<0.010	ug/L	0.010	S	50-29-3	20
NELAC	Aldrin	<0.010	ug/L	0.010		309-00-2	20
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-84-6	20
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-85-7	20
NELAC	Chlordane	<0.200	ug/L	0.200		57-74-9	20
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-86-8	20
NELAC	Dieldrin	<0.010	ug/L	0.010		60-57-1	20
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	20
NELAC	Endosulfan II (beta)	<0.010	ug/L	0.010		33213-65-9	20
NELAC	Endosulfan sulfate	<0.010	ug/L	0.010		1031-07-8	20
NELAC	Endrin	<0.010	ug/L	0.010		72-20-8	20
NELAC	Endrin aldehyde	<0.010	ug/L	0.010		7421-93-4	20
NELAC	Gamma-BHC(Lindane)	<0.010	ug/L	0.010		58-89-9	20
NELAC	Heptachlor	<0.010	ug/L	0.010	S	76-44-8	20
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	20
NELAC	Toxaphene	<0.200	ug/L	0.200		8001-35-2	20

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 608.3 Prepared: 1149464 11/25/2024 14:00:00 Analyzed 1149931 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200	X	12674-11-2	22
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	22
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	22
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	22
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	22
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	22
NELAC	PCB-1260	<0.200	ug/L	0.200	X	11096-82-5	22
NELAC	PCB-1262	<0.200	ug/L	0.200		37324-23-5	22
NELAC	PCB-1268	<0.200	ug/L	0.200		11100-14-4	22

EPA 615 Prepared: 1149646 11/26/2024 14:40:00 Analyzed 1150042 11/27/2024 18:52:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.497	ug/L	0.497	X	94-75-7	25
NELAC	2,4,5-TP (Silvex)	<0.298	ug/L	0.298		93-72-1	25

EPA 617 Prepared: 1149462 11/25/2024 14:00:00 Analyzed 1149957 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.0501	ug/L	0.0501	XS	115-32-2	20
z	Methoxychlor	<0.010	ug/L	0.010	S	72-43-5	20
z	Mirex	<0.010	ug/L	0.010		2385-85-5	20

EPA 622 Prepared: 1149463 11/25/2024 14:00:00 Analyzed 1150821 12/02/2024 20:36:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0501	ug/L	0.0501		86-50-0	21
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	21
NELAC	Demeton	<0.0501	ug/L	0.0501		8065-48-3	21
NELAC	Diazinon	<0.0501	ug/L	0.0501		333-41-5	21
NELAC	Malathion	<0.0501	ug/L	0.0501		121-75-5	21
NELAC	Parathion, ethyl	<0.0501	ug/L	0.0501		56-38-2	21
NELAC	Parathion, methyl	<0.050	ug/L	0.050	D	298-00-0	21

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Analyzed 1150158 11/27/2024 21:38:00 PMI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.04	ug/L	1.04		95-94-3	24
NELAC	1,2,4-Trichlorobenzene	<1.04	ug/L	1.04		120-82-1	24
NELAC	1,2-Dichlorobenzene	<1.04	ug/L	1.04		95-50-1	24
NELAC	1,2-DPH (as azobenzene)	<1.04	ug/L	1.04		122-66-7	24
NELAC	1,3-Dichlorobenzene	<1.04	ug/L	1.04		541-73-1	24
NELAC	1,4-Dichlorobenzene	<1.04	ug/L	1.04		106-46-7	24
NELAC	2,4,5-Trichlorophenol	<1.04	ug/L	1.04		95-95-4	24
NELAC	2,4,6-Trichlorophenol	<1.04	ug/L	1.04		88-06-2	24
NELAC	2,4-Dichlorophenol	<1.04	ug/L	1.04		120-83-2	24
NELAC	2,4-Dimethylphenol	<2.49	ug/L	2.49		105-67-9	24
NELAC	2,4-Dinitrophenol	<9.33	ug/L	9.33		51-28-5	24
NELAC	2,4-Dinitrotoluene	<3.63	ug/L	3.63		121-14-2	24
NELAC	2,6-Dinitrotoluene	<1.04	ug/L	1.04		606-20-2	24
NELAC	2-Chloronaphthalene	<1.04	ug/L	1.04		91-58-7	24
NELAC	2-Chlorophenol	<1.04	ug/L	1.04		95-57-8	24
NELAC	2-Methylphenol (o-Cresol)	<5.39	ug/L	5.39		95-48-7	24
NELAC	2-Nitrophenol	<1.04	ug/L	1.04		88-75-5	24
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.42	ug/L	6.42		MEPH34	24
NELAC	3,3'-Dichlorobenzidine	<5.00	ug/L	5.00		91-94-1	24
NELAC	4,6-Dinitro-2-methylphenol	<8.29	ug/L	8.29		534-52-1	24
NELAC	4-Bromophenyl phenyl ether	<1.04	ug/L	1.04		101-55-3	24
NELAC	4-Chlorophenyl phenyl ethe	<1.04	ug/L	1.04		7005-72-3	24
NELAC	4-Nitrophenol	<1.04	ug/L	1.04		100-02-7	24
NELAC	Acenaphthene	<1.04	ug/L	1.04		83-32-9	24
NELAC	Acenaphthylene	<1.04	ug/L	1.04		208-96-8	24
z	Aniline	<1.04	ug/L	1.04	S	62-53-3	24
NELAC	Anthracene	<1.04	ug/L	1.04		120-12-7	24
NELAC	Benzidine	<20.7	ug/L	20.7		92-87-5	24
NELAC	Benzo(a)anthracene	<1.04	ug/L	1.04		56-55-3	24
NELAC	Benzo(a)pyrene	<1.04	ug/L	1.04		50-32-8	24
NELAC	Benzo(b)fluoranthene	<1.04	ug/L	1.04		205-99-2	24
NELAC	Benzo(ghi)perylene	<1.04	ug/L	1.04		191-24-2	24
NELAC	Benzo(k)fluoranthene	<1.04	ug/L	1.04		207-08-9	24
NELAC	Benzyl Butyl phthalate	<7.77	ug/L	7.77		85-68-7	24
NELAC	Bis(2-chloroethoxy)methane	<1.04	ug/L	1.04		111-91-1	24
NELAC	Bis(2-chloroethyl)ether	<1.04	ug/L	1.04		111-44-4	24

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Analyzed 1150158 11/27/2024 21:38:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Bis(2-chloroisopropyl)ether	<1.04	ug/L	1.04		108-60-1	24
NELAC	Bis(2-ethylhexyl)phthalate	<7.77	ug/L	7.77		117-81-7	24
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.04	ug/L	1.04		218-01-9	24
NELAC	Dibenz(a,h)anthracene	<1.04	ug/L	1.04		53-70-3	24
NELAC	Diethyl phthalate	<5.91	ug/L	5.91		84-66-2	24
NELAC	Dimethyl phthalate	<4.97	ug/L	4.97		131-11-3	24
NELAC	Di-n-butylphthalate	<7.77	ug/L	7.77		84-74-2	24
NELAC	Di-n-octylphthalate	<1.04	ug/L	1.04		117-84-0	24
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.04	ug/L	1.04		206-44-0	24
NELAC	Fluorene	<1.04	ug/L	1.04		86-73-7	24
NELAC	Hexachlorobenzene	<1.04	ug/L	1.04		118-74-1	24
NELAC	Hexachlorobutadiene	<1.04	ug/L	1.04		87-68-3	24
NELAC	Hexachlorocyclopentadiene	<9.33	ug/L	9.33		77-47-4	24
NELAC	Hexachloroethane	<1.04	ug/L	1.04		67-72-1	24
NELAC	Indeno(1,2,3-cd)pyrene	<1.04	ug/L	1.04		193-39-5	24
NELAC	Isophorone	<1.04	ug/L	1.04		78-59-1	24
NELAC	Naphthalene	<1.04	ug/L	1.04		91-20-3	24
NELAC	Nitrobenzene	<1.04	ug/L	1.04		98-95-3	24
NELAC	n-Nitrosodiethylamine	<1.04	ug/L	1.04		55-18-5	24
NELAC	N-Nitrosodimethylamine	<7.25	ug/L	7.25	X	62-75-9	24
NELAC	n-Nitroso-di-n-butylamine	<1.04	ug/L	1.04		924-16-3	24
NELAC	N-Nitrosodi-n-propylamine	<1.04	ug/L	1.04		621-64-7	24
NELAC	N-Nitrosodiphenylamine (as DPA	<1.04	ug/L	1.04		86-30-6	24
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.49	ug/L	2.49		59-50-7	24
NELAC	Pentachlorobenzene	<1.04	ug/L	1.04		608-93-5	24
NELAC	Pentachlorophenol	<1.04	ug/L	1.04		87-86-5	24
NELAC	Phenanthrene	<1.04	ug/L	1.04		85-01-8	24
NELAC	Phenol	<1.55	ug/L	1.55		108-95-2	24
NELAC	Pyrene	<1.04	ug/L	1.04		129-00-0	24
NELAC	Pyridine	<5.60	ug/L	5.60		110-86-1	24

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Calculated 1150158 12/03/2024 11:25:19 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<6.42	ug/L	6.42		1319-77-3, etc.	24

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Printed: 12/12/2024

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 632 Prepared: 1149461 11/25/2024 14:00:00 Analyzed 1150275 11/27/2024 23:28:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.50	ug/L	2.50		63-25-2	19
z	Diuron	<0.045	ug/L	0.045		330-54-1	19

SM 3500-Cr B-2011 Prepared: 1149181 11/20/2024 14:30:00 Analyzed 1149181 11/20/2024 14:30:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hex Cr, Field Preservation	Preserved	ug/L	3		18540-29-9	

SM 3500-Cr B-2011 Prepared: 1149332 11/21/2024 14:00:00 Analyzed 1149332 11/21/2024 14:00:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hexavalent Chromium	<3.00	ug/L	3.00		18540-29-9	14

TX 1001 Prepared: 1148986 11/21/2024 13:15:00 Analyzed 1149585 11/25/2024 19:41:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Tributyltin hydride	<0.00709	ug/L	0.00709		688-73-3	16

2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 300.0 2.1 Prepared: 1149256 11/21/2024 14:52:00 Analyzed 1149256 11/21/2024 14:52:00 KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen Total	11.8	mg/L	0.100		14797-55-8	01

EPA 300.0 2.1 Prepared: 1149606 11/25/2024 10:06:00 Analyzed 1149606 11/25/2024 10:06:00 KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chloride	639	mg/L	30.0	P		01
NELAC	Sulfate	344	mg/L	30.0	P		01

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Printed: 12/12/2024

2357078 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 *Received:* 11/21/2024

Non-Potable Water *Collected by:* Client Public Utilities Boa *PO:* P2302002
Composite Stop 12:00 11/20/24 *Taken:* 11/20/2024 12:00:00

EPA 350.1 2 *Prepared:* 1149129 11/22/2024 06:40:57 *Analyzed* 1149518 11/25/2024 06:41:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	0.348	mg/L	0.020			07

EPA 351.2 2 *Prepared:* 1149141 11/22/2024 07:32:16 *Analyzed* 1149432 11/25/2024 08:43:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	0.351	mg/L	0.050		7727-37-9	06

SM 2320 B-2011 *Prepared:* 1149811 11/26/2024 14:30:00 *Analyzed* 1149811 11/26/2024 14:30:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Alkalinity (as CaCO3)	101	mg/L	1.00			02

SM 2510 B-2011 *Prepared:* 1149523 11/26/2024 06:55:00 *Analyzed* 1149523 11/26/2024 06:55:00 JMJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Lab Spec. Conductance at 25 C	3230	umhos/cm				01

SM 2540 C-2015 *Prepared:* 1150150 11/26/2024 08:25:00 *Analyzed* 1150150 11/26/2024 08:25:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Dissolved Solids	1840	mg/L	50.0			02

SM 2540 D-2015 *Prepared:* 1149250 11/21/2024 15:07:00 *Analyzed* 1149250 11/21/2024 15:07:00 SRJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Suspended Solids	2.30	mg/L	2.00			01

SM 4500-P E-2011 *Prepared:* 1149490 11/25/2024 08:40:00 *Analyzed* 1149490 11/25/2024 08:40:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus (as P), total	4.05	mg/L	0.600		7723-14-0	03

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2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1149134 11/22/2024 Analyzed 1149134 11/27/2024 11:26:38 ESN

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	BOD Carbonaceous	<2.00	mg/L	2.00			01

2357084 ROBINDALE WWTP Permit Received: 11/21/2024

Non-Potable Water Collected by: JMZ Public Utilities Boa PO: P2302002
Taken: 11/20/2024 09:30:00

Prepared: 1149003 11/20/2024 09:32:00 Analyzed 1149003 11/20/2024 09:32:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
1	Field Cl2 Check for CNa	NEG					

Prepared: 1149178 11/20/2024 09:33:00 Analyzed 1149178 11/20/2024 09:33:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
1	Field Sulfide Check for CNa	neg	mg/L				

EPA 1664B (HEM) Prepared: 1150432 12/03/2024 07:30:00 Analyzed 1150432 12/03/2024 07:30:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Oil and Grease (HEM)	<4.82	mg/L	4.82			10

EPA 420.4 1 Prepared: 1149200 11/22/2024 10:56:27 Analyzed 1149743 11/27/2024 05:57:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phenolics, Total Recoverable	0.025	mg/L	0.005			17

EPA 624.1 Prepared: 1149416 11/22/2024 14:56:00 Analyzed 1149416 11/22/2024 14:56:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Acrolein	<4.00	ug/L	4.00	X	107-02-8	04
NELAC	Acrylonitrile	<2.00	ug/L	2.00		107-13-1	04

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2357084 ROBINDALE WWTP Permit Received: 11/21/2024

Non-Potable Water Collected by: JMZ Public Utilities Boa PO: P2302002
Taken: 11/20/2024 09:30:00

EPA 624.1 Prepared: 1149420 11/22/2024 14:56:00 Analyzed 1149420 11/22/2024 14:56:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,1,1-Trichloroethane	<1.00	ug/L	1.00		71-55-6	04
NELAC	1,1,2,2-Tetrachloroethane	<2.00	ug/L	2.00		79-34-5	04
NELAC	1,1,2-Trichloroethane	<2.00	ug/L	2.00		79-00-5	04
NELAC	1,1-Dichloroethane	<1.00	ug/L	1.00		75-34-3	04
NELAC	1,1-Dichloroethylene	<1.00	ug/L	1.00		75-35-4	04
NELAC	1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	04
NELAC	1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	04
NELAC	1,2-Dichloropropane	<1.01	ug/L	1.01		78-87-5	04
NELAC	2-Chloroethylvinyl ether	<5.00	ug/L	5.00		110-75-8	04
NELAC	Benzene	<1.00	ug/L	1.00		71-43-2	04
NELAC	Bromodichloromethane	<1.00	ug/L	1.00		75-27-4	04
NELAC	Bromoform	<2.00	ug/L	2.00		75-25-2	04
NELAC	Bromomethane (Methyl Bromi	<1.01	ug/L	1.01		74-83-9	04
NELAC	Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	04
NELAC	Chlorobenzene	<1.00	ug/L	1.00		108-90-7	04
NELAC	Chloroethane	<5.00	ug/L	5.00		75-00-3	04
NELAC	Chloroform	<1.00	ug/L	1.00		67-66-3	04
NELAC	Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	04
NELAC	cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	04
NELAC	Dibromochloromethane	<1.00	ug/L	1.00		124-48- 1	04
NELAC	Dichloromethane	<2.00	ug/L	2.00		75-09-2	04
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	04
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	04
NELAC	Methyl ethyl ketone (Butanone)	<10.0	ug/L	10.0		78-93-3	04
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	04
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	04
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	04
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	04
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	04
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	04
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	04
NELAC	Vinyl chloride	<1.04	ug/L	1.04		75-01-4	04

EPA 624.1 Prepared: 1149420 11/25/2024 15:07:21 Calculated 1149420 11/25/2024 15:07:21 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes	<0.002	mg/L	0.002			04

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Printed: 12/12/2024

2357084 ROBINDALE WWTP Permit Received: 11/21/2024

Non-Potable Water | Collected by: JMZ | Public Utilities Boa | PO: P2302002
Taken: 11/20/2024 09:30:00

SM 2550 B - 2010 Prepared: 1149002 11/20/2024 09:35:00 Analyzed 1149002 11/20/2024 09:35:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Temperature (onsite)	28	Degrees C	1			

SM 4500-CN⁻ E-2016 Prepared: 1149138 11/22/2024 07:26:34 Analyzed 1149459 11/25/2024 07:31:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide, total	<0.005	mg/L	0.005			11

SM 4500-CN⁻ G-2016 Prepared: 11/26/2024 09:13:08 Calculated 11/26/2024 09:13:08 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide - Available/Amenable	<0.005	mg/L	0.005			

SM 4500-CN⁻ G-2016 Prepared: 1149140 11/22/2024 07:30:02 Analyzed 1149460 11/25/2024 07:31:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cyanide After Chlorination	<0.005	mg/L	0.005	D		14

SM 4500-H+ B-2011 Prepared: 1149001 11/20/2024 09:30:00 Analyzed 1149001 11/20/2024 09:30:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH (Onsite)	7.0	SU				

SM 4500-O G-2016 Prepared: 1149000 11/20/2024 09:40:00 Analyzed 1149000 11/20/2024 09:40:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Dissolved Oxygen Onsite	7.0	mg/L	1.0			

2357969 ROLANDALE WWTP Permit Renewal Received: 11/22/2024

Non-Potable Water | Collected by: JMZ | SPL Kilgore | PO: P2302002
Taken: 11/21/2024 07:40:00

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory

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Printed: 12/12/2024

2357969 ROLANDALE WWTP Permit Renewal — Received: 11/22/2024

Non-Potable Water — Collected by: JMZ — SPL Kilgore — PO: P2302002
Taken: 11/21/2024 07:40:00

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory

SM 4500-Cl G-2011 — Prepared: 1149280 11/21/2024 09:45:00 — Analyzed 1149280 11/21/2024 09:45:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cl2 Res.,Total(Onsite)Spec Mid	<0.05	mg/L	0.05			

Subcontract — Prepared: 11/21/2024 14:12:00 — Analyzed 11/21/2024 14:12:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
MPN, E.coli, Coli-18 - WW sub	See Attached				CCWU	

Sample Preparation

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 — Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

Prepared: 12/12/2024 10:36:00 — Analyzed 12/12/2024 10:36:00 WJP

z	Check Limits	Completed						

ASTM D7065-17 — Prepared: 1149679 11/26/2024 15:30:00 — Analyzed 1150300 12/02/2024 19:35:00 DWL

z	Nonyl Phenol Expansion	Entered						26

EPA 200.2 2.8 — Prepared: 1149442 11/25/2024 10:00:00 — Analyzed 1149442 11/25/2024 10:00:00 HLT

z	Liquid Metals Digestion	50/50	ml					13

EPA 245.7 2 — Prepared: 1149203 11/22/2024 10:00:00 — Analyzed 1149203 11/22/2024 10:00:00 MPI

NELAC	Low Level Mercury Liquid Metals	50/47	ml					15

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

EPA 604.1	*Prepared:*	*1149479*	*11/25/2024*	*15:00:00*	*Analyzed*	*1149479*	*11/25/2024*	*15:00:00*	*LSM*
Hexachlorophene Extraction	**5/980**	**ml**							02
EPA 604.1	*Prepared:*	*1149479*	*11/25/2024*	*15:00:00*	*Analyzed*	*1151420*	*12/10/2024*	*07:22:00*	*BRU*
Hexachlorophene Expansion	**Entered**						**70-30-4**		23
EPA 608.3	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149462*	*11/25/2024*	*14:00:00*	*MCC*
Liquid-Liquid Extr. W/Hex Ex	**1/999**	**ml**							03
EPA 608.3	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150009*	*11/26/2024*	*21:25:00*	*KAP*
Table 1 Organochlorine Pesticide	**Entered**								20
EPA 608.3	*Prepared:*	*1149463*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149463*	*11/25/2024*	*14:00:00*	*MCC*
Solvent Extraction	**1/999**	**ml**							03
EPA 608.3	*Prepared:*	*1149464*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149464*	*11/25/2024*	*14:00:00*	*MCC*
PCB Liq-Liq Extr. W/Hex Exch.	**1/999**	**ml**							03
EPA 608.3	*Prepared:*	*1149464*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149931*	*11/26/2024*	*21:25:00*	*KAP*
NELAC **Polychlorinated Biphenyls**	**Entered**								22
EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1149646*	*11/26/2024*	*14:40:00*	*LSM*
NELAC **Esterification of Sample**	**10/1006**	**ml**							05
EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1150042*	*11/27/2024*	*18:52:00*	*KAP*

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Printed: 12/12/2024

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1150042*	*11/27/2024*	*18:52:00*	*KAP*
NELAC Herbicides by GC	Entered								25
EPA 617	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149957*	*11/26/2024*	*21:25:00*	*KAP*
Dicofol/Methoxychlor/Mirex	Entered								20
EPA 622	*Prepared:*	*1149463*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150821*	*12/02/2024*	*20:36:00*	*KAP*
Table 1 Organophosphorous Pestic	Entered								21
EPA 625.1	*Prepared:*	*1149630*	*11/26/2024*	*13:40:00*	*Analyzed*	*1149630*	*11/26/2024*	*13:40:00*	*MCC*
Liquid-Liquid Extraction, BNA	1/965	ml							04
EPA 625.1	*Prepared:*	*1149630*	*11/26/2024*	*13:40:00*	*Analyzed*	*1150158*	*11/27/2024*	*21:38:00*	*PMI*
NELAC Table D-1/ D-2 Semivolatiles Exp	Entered								24
EPA 625.1	*Prepared:*	*1149679*	*11/26/2024*	*15:30:00*	*Analyzed*	*1149679*	*11/26/2024*	*15:30:00*	*LSM*
Nonylphenol Liq-Liq Extract	1/803	ml							11
EPA 632	*Prepared:*	*1149461*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149461*	*11/25/2024*	*14:00:00*	*MCC*
Liquid-Liquid Extr. W/Hex Ex	1/999	ml							03
EPA 632	*Prepared:*	*1149461*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150275*	*11/27/2024*	*23:28:00*	*BRU*
NELAC Carbaryl/Diuron	Entered								19

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

TX 1001		*Prepared:*	*1148986*	*11/21/2024*	*13:15:00*	*Analyzed*	*1148986*	*11/21/2024*	*13:15:00*	*CRS*
	Butyltins Extraction	**1/988**	**ml**							01
TX 1001		*Prepared:*	*1148986*	*11/21/2024*	*13:15:00*	*Analyzed*	*1149585*	*11/25/2024*	*19:41:00*	*DWL*
	Butyltin Expansion	**Entered**								16

2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

EPA 350.1, Rev. 2.0		*Prepared:*	*1149129*	*11/22/2024*	*06:40:57*	*Analyzed*	*1149129*	*11/22/2024*	*06:40:57*	*AMB*
NELAC	**Ammonia Distillation**	**6/6**	**ml**							03
EPA 351.2, Rev 2.0		*Prepared:*	*1149141*	*11/22/2024*	*07:32:16*	*Analyzed*	*1149141*	*11/22/2024*	*07:32:16*	*MEG*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							03
SM 2540 C-2015		*Prepared:*	*1149550*	*11/26/2024*	*08:25:00*	*Analyzed*	*1149550*	*11/26/2024*	*08:25:00*	*JMB*
NELAC	**Total Dissolved Solids Started**	**Started**								
SM 2540 D-2011		*Prepared:*	*1148383*	*11/21/2024*	*15:07:00*	*Analyzed*	*1148383*	*11/21/2024*	*15:07:00*	*SRJ*
NELAC	**TSS Set Started**	**Started**								

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2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

SM 5210 B-2016 (TCMP Inhibitor)	*Prepared:*	*1149134*	*11/22/2024*		*Analyzed*	*1149134*	*11/22/2024*	*06:50:05*	*ESN*
NELAC **BODc Set Started**	**Started**								

2357084 ROBINDALE WWTP Permit Received: 11/21/2024

P2302002

11/20/2024

EPA 1664B (HEM)	*Prepared:*	*1150329*	*12/03/2024*	*07:30:00*	*Analyzed*	*1150329*	*12/03/2024*	*07:30:00*	*TRC*
NELAC **O&G HEM Started**	**Started**								
EPA 420.4 1	*Prepared:*	*1149200*	*11/22/2024*	*10:56:27*	*Analyzed*	*1149200*	*11/22/2024*	*10:56:27*	*MEG*
NELAC **Phenol Distillation**	**6/6**	**ml**							06
EPA 624.1	*Prepared:*	*1149416*	*11/22/2024*	*14:56:00*	*Analyzed*	*1149416*	*11/22/2024*	*14:56:00*	*MR1*
NELAC **Acrolein/Acrylonitrile Exp.**	**Entered**								04
EPA 624.1	*Prepared:*	*1149420*	*11/22/2024*	*14:56:00*	*Analyzed*	*1149420*	*11/22/2024*	*14:56:00*	*MR1*
2 **Table D-1/D-2 Volatile Expansion**	**Entered**								04
SM 4500-CN⁻ C-2016	*Prepared:*	*1149138*	*11/22/2024*	*07:26:34*	*Analyzed*	*1149138*	*11/22/2024*	*07:26:34*	*MEG*
NELAC **Cyanide Distillation**	**10/5**	**ml**							07

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P2302002

11/20/2024

SM 4500-CN⁻ C-2016	Prepared:	1149140	11/22/2024	07:30:02	Analyzed	1149140	11/22/2024	07:30:02	MEG	
NELAC CN Dist After Chlorination	10/5	ml								07

Qualifiers:

D - Duplicate RPD was higher than expected
P - Spike recovery outside control limits due to matrix effects.
X - Standard reads higher than desired
S - Standard reads lower than desired

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

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

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

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

Bill Peery

Bill Peery, MS, VP Technical Services

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Analytical Set 1149134 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127054580
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127054632
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127056926

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
BOD Carbonaceous	2357120	8.16	8.80	mg/L	7.55		30.0
BOD Carbonaceous	2357198	2.52	ND	mg/L	200	*	30.0
BOD Carbonaceous	2357472	ND	ND	mg/L			30.0
BOD Carbonaceous	2357510	5.23	4.39	mg/L	17.5		30.0
BOD Carbonaceous	2357802	2.05	3.05	mg/L	39.2	*	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1149134	0.670	0.200	0.500	mg/L	127054582
BOD Carbonaceous	1149134	0.663	0.200	0.500	mg/L	127054634
BOD Carbonaceous	1149134	0.557	0.200	0.500	mg/L	127056928

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		222	198	mg/L	112	83.7 - 116	127054583
BOD Carbonaceous		217	198	mg/L	110	83.7 - 116	127054635
BOD Carbonaceous		220	198	mg/L	111	83.7 - 116	127056929

Analytical Set 1149432 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1149141	ND	0.00712	0.050	mg/L	127062455

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.18	5.00	mg/L	104	90.0 - 110	127062436
Total Kjeldahl Nitrogen	5.32	5.00	mg/L	106	90.0 - 110	127062439
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	127062450
Total Kjeldahl Nitrogen	5.22	5.00	mg/L	104	90.0 - 110	127062460
Total Kjeldahl Nitrogen	5.37	5.00	mg/L	107	90.0 - 110	127062471
Total Kjeldahl Nitrogen	5.38	5.00	mg/L	108	90.0 - 110	127062482
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	127062493
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127062504
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127062511

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2356911	ND	ND	mg/L		20.0
Total Kjeldahl Nitrogen	2356920	ND	ND	mg/L		20.0

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.27	5.00	mg/L	105	90.0 - 110	127062435

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1149141	5.45	4.96	5.00	90.0 - 110	109	99.2	mg/L	9.41	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2356911	4.77	ND	5.00	mg/L	95.4	80.0 - 120	127062461
Total Kjeldahl Nitrogen	2356920	5.08	ND	5.00	mg/L	102	80.0 - 120	127062464

Analytical Set 1149459 — SM 4500-CN⁻ E-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide, total	1149138	ND	0.00238	0.005	mg/L	127062835

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.522	0.500	mg/L	104	90.0 - 110	127062834
Cyanide, total	0.521	0.500	mg/L	104	90.0 - 110	127062844
Cyanide, total	0.519	0.500	mg/L	104	90.0 - 110	127062846

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cyanide, total	2357084	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide, total	0.207	0.200	mg/L	104	90.0 - 110	127062833

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Cyanide, total	1149138	0.409	0.409	0.400	90.0 - 110	102	102	mg/L	0	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide, total	2357084	0.407	ND	0.400	mg/L	102	90.0 - 110	127062840

Analytical Set 1149460 — SM 4500-CN⁻ G-2016

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Cyanide After Chlorination	1149140	ND	0.00119	0.0025	mg/L	127062849

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.521	0.500	mg/L	104	90.0 - 110	127062848
Cyanide After Chlorination	0.519	0.500	mg/L	104	90.0 - 110	127062856

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Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Cyanide After Chlorination	2357084	ND	0.0012	mg/L	200	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide After Chlorination	0.207	0.200	mg/L	104	90.0 - 110	127062847

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Cyanide After Chlorination	1149140	0.202	0.194	0.200	90.0 - 110	101	97.0	mg/L	4.04	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Cyanide After Chlorination	2357084	0.415	0.0012	0.400	mg/L	104	90.0 - 110	127062854

Analytical Set 1149518 EPA 350.1 2

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Ammonia Nitrogen	1149129	ND	0.00336	0.020	mg/L	127064169

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127064053
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	127064061
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127064067
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127064078
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064084
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064095
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127064104
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064112
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064122
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064130
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127064141
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127064150
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064161
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064167
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127064170
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064177

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Ammonia Nitrogen	2356344	0.222	0.224	mg/L	0.897		20.0
Ammonia Nitrogen	2356919	0.097	0.122	mg/L	22.8	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127064052

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1149129	2.17	2.16	2.00	90.0 - 110	108	108	mg/L	0.462	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Ammonia Nitrogen	2356344	2.42	0.224	2.00	mg/L	110	80.0 - 120	127064113
Ammonia Nitrogen	2356919	2.39	0.122	2.00	mg/L	113	80.0 - 120	127064116

Analytical Set 1149743 — EPA 420.4 1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phenolics, Total Recoverable	1149200	ND	0.003	0.005	mg/L	127070576

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	127070575
Phenolics, Total Recoverable	0.200	0.200	mg/L	100	90.0 - 110	127070584
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	127070591

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Phenolics, Total Recoverable	2356348	0.043	0.045	mg/L	4.55	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	127070574

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phenolics, Total Recoverable	1149200	0.208	0.203	0.200	90.0 - 110	104	102	mg/L	2.43	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Phenolics, Total Recoverable	2356348	0.215	0.045	0.200	mg/L	85.0	90.0 - 110	127070581	*

Analytical Set 1149000 — SM 4500-O G-2016

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Dissolved Oxygen Onsite	2357084	7.0	7.0	mg/L		20

Analytical Set 1149001 — SM 4500-H+ B-2011

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
pH (Onsite)	8.0	6.0	SU	133.3	90 - 110	
pH (Onsite)	8.0	6.0	SU	133.3	90 - 110	

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
pH (Onsite)	2357084	7.0	7.0	SU		20

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
pH (Onsite)	1149001	6.0	8.0	SU	75	90 - 110	
pH (Onsite)	1149001	6.0	8.0	SU	75	90 - 110	

Analytical Set 1149002 — SM 2550 B - 2010

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Temperature (onsite)	2357084	28	28	Degrees C		20

Analytical Set 1149003

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Field Cl2 Check for CNa	2357084	NEG	NEG			20

Analytical Set 1149178

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Field Sulfide Check for CNa	2357084	neg	NEG	mg/L		20

Analytical Set 1149280 — SM 4500-Cl G-2011

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cl2 Res.,Total(Onsite)Spec Mid	2357969	ND	ND	mg/L		20

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Cl2 Res.,Total(Onsite)Spec Mid	1149280	0.220	0.220	mg/L	100	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1149280	0.940	0.930	mg/L	101.1	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1149280	1.58	1.58	mg/L	100	90 - 110	

Analytical Set 1149250 — SM 2540 D-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1149250	ND	2	2	mg/L	127057868

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1149250	0			grams	127057867

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2357088	272	271	mg/L	0.368	20.0

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2357107	340	330	mg/L	2.99	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Suspended Solids	1149250	50.0	50.0	mg/L	100	90.0 - 110	127057886

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Suspended Solids		100	100	mg/L	100	90.0 - 110	127057885

Analytical Set 1150150 — SM 2540 C-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1150150	ND	5.00	5.00	mg/L	127079789

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1150150	0.0002			grams	127079776

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Dissolved Solids	2356853	182	184	mg/L	1.09	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Dissolved Solids	1150150	200	200	mg/L	100	85.0 - 115	127079790

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Dissolved Solids		96.0	100	mg/L	96.0	90.0 - 110	127079777

Analytical Set 1150432 — EPA 1664B (HEM)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1150432	ND	0.804	4.00	mg/L	127085860

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1150432	0			grams	127085859
Oil and Grease (HEM)	1150432	0.0001			grams	127085884

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Oil and Grease (HEM)	1150432	36.0	40.0	mg/L	90.0	78.0 - 114	127085861

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM)	2358576	39.0	0	1.70	40.0	78.0 - 114	97.5		mg/L		20.0

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Analytical Set 1149220 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	0.098	0.100	mg/L	98.0	70.0 - 130	127057044

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1149220	ND	0.0112	0.100	mg/L	127057045

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1149220	0	0.0112	0.100	mg/L	127057041
Fluoride	1149220	0	0.0112	0.100	mg/L	127057059
Fluoride	1149220	0	0.0112	0.100	mg/L	127057073

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	10.1	10.0	mg/L	101	90.0 - 110	127057040
Fluoride	9.85	10.0	mg/L	98.5	90.0 - 110	127057058
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	127057072

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1149220	5.51	5.62	5.00	88.0 - 118	110	112	mg/L	1.98	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride	2356688	18.7	18.4	ND	20.0	80.0 - 120	93.5	92.0	mg/L	1.62	20.0
Fluoride	2356702	40.4	42.4	ND	50.0	80.0 - 120	80.8	84.8	mg/L	4.83	20.0

Analytical Set 1149256 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	0.016	0.0226	mg/L	70.8	70.0 - 130	127058003

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen Total	1149256	ND	0.00464	0.0226	mg/L	127058004

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058000
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058020
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058032

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	2.28	2.26	mg/L	101	90.0 - 110	127057999
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127058019

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	2.31	2.26	mg/L	102	90.0 - 110	127058031

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen Total	1149256	1.24	1.24	1.13	86.3 - 117	110	110	mg/L	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nitrate-Nitrogen Total	2356385	6.42	6.46	4.20	2.26	80.0 - 120	98.2	100	mg/L	1.79	20.0
Nitrate-Nitrogen Total	2356387	2.19	2.19	ND	2.26	80.0 - 120	96.9	96.9	mg/L	0	20.0

Analytical Set 1149606 — EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1149606	ND	0.0298	0.300	mg/L	127067691
Sulfate	1149606	ND	0.160	0.300	mg/L	127067691

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1149606	0	0.0298	0.300	mg/L	127067687
Chloride	1149606	0	0.0298	0.300	mg/L	127067707
Chloride	1149606	0	0.0298	0.300	mg/L	127067719
Sulfate	1149606	0	0.160	0.300	mg/L	127067687
Sulfate	1149606	0	0.160	0.300	mg/L	127067707
Sulfate	1149606	0	0.160	0.300	mg/L	127067719

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	10.6	10.0	mg/L	106	90.0 - 110	127067686
Chloride	10.5	10.0	mg/L	105	90.0 - 110	127067706
Chloride	10.5	10.0	mg/L	105	90.0 - 110	127067718
Sulfate	9.79	10.0	mg/L	97.9	90.0 - 110	127067686
Sulfate	9.69	10.0	mg/L	96.9	90.0 - 110	127067706
Sulfate	9.65	10.0	mg/L	96.5	90.0 - 110	127067718

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	1149606	5.48	5.45	5.00	85.0 - 115	110	109	mg/L	0.549	20.0
Sulfate	1149606	5.21	5.11	5.00	85.4 - 124	104	102	mg/L	1.94	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2357078	800	823	639	100	80.0 - 120	161 *	184 *	mg/L	13.3	20.0
Sulfate	2357078	474	484	344	100	80.0 - 120	130 *	140 *	mg/L	7.41	20.0
Chloride	2357104	283	285	166	100	80.0 - 120	117	119	mg/L	1.69	20.0
Sulfate	2357104	378	383	255	100	80.0 - 120	123 *	128 *	mg/L	3.98	20.0

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Analytical Set 1149264 — EPA 245.7 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1149203	ND	1.20	5.00	ng/L	127058142

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	27.0	25.0	ng/L	108	87.0 - 113	127058141
Mercury, Total (low level)	25.7	25.0	ng/L	103	87.0 - 113	127058152
Mercury, Total (low level)	25.2	25.0	ng/L	101	87.0 - 113	127058163
Mercury, Total (low level)	24.6	25.0	ng/L	98.4	87.0 - 113	127058169

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	ND	50.0	ng/L	0	90.0 - 110	127058139

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.0	25.0	ng/L	104	90.0 - 110	127058140

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1149203	24.0	23.9	25.0	76.0 - 115	96.0	95.6	ng/L	0.418	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2355008	22.3	22.9	ND	26.6	63.0 - 111	83.8	86.1	ng/L	2.65	18.0
Mercury, Total (low level)	2356729	20.2	20.7	ND	26.6	63.0 - 111	75.9	77.8	ng/L	2.44	18.0

Analytical Set 1149332 — SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1149332	0.768	0.550	3.00	ug/L	127059156
Hexavalent Chromium	1149332	ND	0.550	3.00	ug/L	127059164
Hexavalent Chromium	1149332	ND	0.550	3.00	ug/L	127059167

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	81.7	80.0	ug/L	102	90.0 - 110	127059157
Hexavalent Chromium	82.7	80.0	ug/L	103	90.0 - 110	127059165
Hexavalent Chromium	84.7	80.0	ug/L	106	90.0 - 110	127059168

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1149332	86.9	84.9	80.0	85.0 - 115	109	106	ug/L	2.33	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2357077	78.1	77.9	ND	80.0	70.0 - 130	97.6	97.4	ug/L	0.256	20.0

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Analytical Set 1149700

EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Aluminum, Total	1149442	ND	0.00171	0.00171	mg/L	127069743
Antimony, Total	1149442	ND	0.00376	0.00376	mg/L	127069743
Barium, Total	1149442	ND	0.000635	0.001	mg/L	127069743
Beryllium, Total	1149442	ND	0.000139	0.001	mg/L	127069743
Cadmium, Total	1149442	ND	0.000067	0.001	mg/L	127069743
Chromium, Total	1149442	ND	0.000621	0.001	mg/L	127069743
Copper, Total	1149442	ND	0.00155	0.00155	mg/L	127069743
Lead, Total	1149442	ND	0.000244	0.001	mg/L	127069743
Nickel, Total	1149442	ND	0.00112	0.00112	mg/L	127069743
Thallium, Total	1149442	ND	0.000106	0.001	mg/L	127069743
Zinc, Total	1149442	ND	0.000875	0.001	mg/L	127069743

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127069693
Aluminum, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	127069699
Aluminum, Total	0.050	0.05	mg/L	100	90.0 - 110	127069710
Aluminum, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069719
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	127069730
Aluminum, Total	0.0514	0.05	mg/L	103	90.0 - 110	127069737
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069747
Aluminum, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069758
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	127069768
Antimony, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069693
Antimony, Total	0.0516	0.05	mg/L	103	90.0 - 110	127069747
Antimony, Total	0.0525	0.05	mg/L	105	90.0 - 110	127069758
Barium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069693
Barium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Barium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127069710
Barium, Total	0.0533	0.05	mg/L	107	90.0 - 110	127069730
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069747
Barium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127069758
Beryllium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069693
Beryllium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127069699
Beryllium, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069710
Beryllium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	127069719
Beryllium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127069747
Beryllium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069758
Cadmium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069693
Cadmium, Total	0.050	0.05	mg/L	100	90.0 - 110	127069699
Cadmium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069710
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127069719
Cadmium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127069730

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069747
Cadmium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069758
Chromium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069693
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Chromium, Total	0.053	0.05	mg/L	106	90.0 - 110	127069710
Chromium, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	127069719
Chromium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069730
Chromium, Total	0.050	0.05	mg/L	100	90.0 - 110	127069737
Chromium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069747
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069758
Copper, Total	0.0527	0.05	mg/L	105	90.0 - 110	127069693
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127069699
Copper, Total	0.0546	0.05	mg/L	109	90.0 - 110	127069710
Copper, Total	0.0512	0.05	mg/L	102	90.0 - 110	127069719
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127069730
Copper, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069737
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069747
Copper, Total	0.0519	0.05	mg/L	104	90.0 - 110	127069758
Copper, Total	0.0532	0.05	mg/L	106	90.0 - 110	127069768
Copper, Total	0.0523	0.05	mg/L	105	90.0 - 110	127069779
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069790
Lead, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069693
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069710
Lead, Total	0.0476	0.05	mg/L	95.2	90.0 - 110	127069719
Lead, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	127069730
Lead, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127069747
Lead, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127069758
Lead, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069768
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069779
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069790
Nickel, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069693
Nickel, Total	0.0501	0.05	mg/L	100	90.0 - 110	127069699
Nickel, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069710
Nickel, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069719
Nickel, Total	0.0541	0.05	mg/L	108	90.0 - 110	127069730
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127069747
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127069758
Thallium, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127069747
Thallium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127069758
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069768
Thallium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069779
Thallium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069790
Zinc, Total	0.0534	0.05	mg/L	107	90.0 - 110	127069693
Zinc, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069699

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc, Total	0.0532	0.05	mg/L	106	90.0 - 110	127069710
Zinc, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069719
Zinc, Total	0.0546	0.05	mg/L	109	90.0 - 110	127069730
Zinc, Total	0.0537	0.05	mg/L	107	90.0 - 110	127069747
Zinc, Total	0.054	0.05	mg/L	108	90.0 - 110	127069758
Zinc, Total	0.0535	0.05	mg/L	107	90.0 - 110	127069768

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069691
Antimony, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069691
Barium, Total	0.0512	0.05	mg/L	102	90.0 - 110	127069691
Beryllium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127069691
Cadmium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069691
Chromium, Total	0.0517	0.05	mg/L	103	90.0 - 110	127069691
Copper, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069691
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069691
Nickel, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069691
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069691
Zinc, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069691

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1149442	0.487	0.510	0.500	85.0 - 115	97.4	102	mg/L	4.61	20.0
Antimony, Total	1149442	0.487	0.505	0.500	85.0 - 115	97.4	101	mg/L	3.63	20.0
Barium, Total	1149442	0.497	0.510	0.500	85.0 - 115	99.4	102	mg/L	2.58	20.0
Beryllium, Total	1149442	0.185	0.192	0.200	85.0 - 115	92.5	96.0	mg/L	3.71	20.0
Cadmium, Total	1149442	0.237	0.246	0.250	85.0 - 115	94.8	98.4	mg/L	3.73	20.0
Chromium, Total	1149442	0.494	0.504	0.500	85.0 - 115	98.8	101	mg/L	2.00	20.0
Copper, Total	1149442	0.468	0.496	0.500	85.0 - 115	93.6	99.2	mg/L	5.81	20.0
Lead, Total	1149442	0.463	0.484	0.500	85.0 - 115	92.6	96.8	mg/L	4.44	20.0
Nickel, Total	1149442	0.495	0.515	0.500	85.0 - 115	99.0	103	mg/L	3.96	20.0
Thallium, Total	1149442	0.477	0.489	0.500	85.0 - 115	95.4	97.8	mg/L	2.48	20.0
Zinc, Total	1149442	0.481	0.503	0.500	85.0 - 115	96.2	101	mg/L	4.47	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.00114	0.001	mg/L	114	25.0 - 175	127069690
Lead, Total	0.00107	0.001	mg/L	107	85.0 - 115	127069690

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	2357486	0.560	0.579	0.0706	0.500	70.0 - 130	97.9	102	mg/L	3.81	20.0
Antimony, Total	2357486	0.532	0.521	ND	0.500	70.0 - 130	106	104	mg/L	2.09	20.0
Barium, Total	2357486	0.528	0.527	0.0224	0.500	70.0 - 130	101	101	mg/L	0.198	20.0
Beryllium, Total	2357486	0.196	0.193	ND	0.200	70.0 - 130	98.0	96.5	mg/L	1.54	20.0

QUALITY CONTROL

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Cadmium, Total	2357486	0.242	0.242	ND	0.250	70.0 - 130	96.8	96.8	mg/L	0	20.0
Chromium, Total	2357486	0.509	0.506	ND	0.500	70.0 - 130	102	101	mg/L	0.591	20.0
Copper, Total	2357486	0.499	0.502	ND	0.500	70.0 - 130	99.8	100	mg/L	0.599	20.0
Lead, Total	2357486	0.482	0.478	ND	0.500	70.0 - 130	96.4	95.6	mg/L	0.833	20.0
Nickel, Total	2357486	0.504	0.501	0.00355	0.500	70.0 - 130	100	99.5	mg/L	0.601	20.0
Thallium, Total	2357486	0.487	0.478	ND	0.500	70.0 - 130	97.4	95.6	mg/L	1.87	20.0
Zinc, Total	2357486	0.503	0.498	0.00546	0.500	70.0 - 130	99.5	98.5	mg/L	1.01	20.0
Aluminum, Total	2358086	0.618	0.612	0.0968	0.500	70.0 - 130	104	103	mg/L	1.16	20.0
Antimony, Total	2358086	0.534	0.536	ND	0.500	70.0 - 130	107	107	mg/L	0.374	20.0
Barium, Total	2358086	0.615	0.616	0.103	0.500	70.0 - 130	102	103	mg/L	0.195	20.0
Beryllium, Total	2358086	0.200	0.201	ND	0.200	70.0 - 130	100	100	mg/L	0.499	20.0
Cadmium, Total	2358086	0.243	0.242	ND	0.250	70.0 - 130	97.2	96.8	mg/L	0.412	20.0
Chromium, Total	2358086	0.525	0.523	0.0134	0.500	70.0 - 130	102	102	mg/L	0.392	20.0
Copper, Total	2358086	0.520	0.526	0.0406	0.500	70.0 - 130	95.9	97.1	mg/L	1.24	20.0
Lead, Total	2358086	0.471	0.462	0.000385	0.500	70.0 - 130	94.1	92.3	mg/L	1.93	20.0
Nickel, Total	2358086	0.514	0.515	0.0196	0.500	70.0 - 130	98.9	99.1	mg/L	0.202	20.0
Thallium, Total	2358086	0.480	0.475	ND	0.500	70.0 - 130	96.0	95.0	mg/L	1.05	20.0
Zinc, Total	2358086	1.19	1.20	0.690	0.500	70.0 - 130	100	102	mg/L	1.98	20.0

Analytical Set 1149779 EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Arsenic, Total	1149442	0.00028	0.00025	0.0005	mg/L	127071700
Selenium, Total	1149442	ND	0.000728	0.002	mg/L	127071700
Silver, Total	1149442	ND	0.0000628	0.0002	mg/L	127071700

CCV

Parameter	Reading	Known	Units	Recovery%	Limits%	File
Arsenic, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127071651
Arsenic, Total	0.0506	0.05	mg/L	101	90.0 - 110	127071683
Arsenic, Total	0.0501	0.05	mg/L	100	90.0 - 110	127071693
Arsenic, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	127071703
Arsenic, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	127071713
Selenium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127071651
Selenium, Total	0.0537	0.05	mg/L	107	90.0 - 110	127071683
Selenium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127071693
Selenium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127071703
Selenium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127071713
Selenium, Total	0.0528	0.05	mg/L	106	90.0 - 110	127071724
Silver, Total	0.0534	0.05	mg/L	107	90.0 - 110	127071651
Silver, Total	0.0509	0.05	mg/L	102	90.0 - 110	127071703
Silver, Total	0.0514	0.05	mg/L	103	90.0 - 110	127071713
Silver, Total	0.0515	0.05	mg/L	103	90.0 - 110	127071724

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ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Arsenic, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	127071649
Selenium, Total	0.0503	0.05	mg/L	101	90.0 - 110	127071649
Silver, Total	0.052	0.05	mg/L	104	90.0 - 110	127071649

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Arsenic, Total	1149442	0.496	0.501	0.500	85.0 - 115	99.2	100	mg/L	1.00	20.0
Selenium, Total	1149442	0.494	0.509	0.500	85.0 - 115	98.8	102	mg/L	2.99	20.0
Silver, Total	1149442	0.096	0.098	0.100	85.0 - 115	96.0	98.0	mg/L	2.06	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Arsenic, Total	2358086	0.506	0.509	0.00199	0.500	70.0 - 130	101	101	mg/L	0.593	20.0
Selenium, Total	2358086	0.466	0.461	0.00123	0.500	70.0 - 130	93.0	92.0	mg/L	1.08	20.0
Silver, Total	2358086	0.0922	0.0907	0.000134	0.100	70.0 - 130	92.1	90.6	mg/L	1.64	20.0

Analytical Set 1149416 EPA 624.1

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1149416	174	7	0.5	0 - 2.00	127062206
BFB Mass 174	1149416	95.0	1346	52.5	50.0 - 100	127062206
BFB Mass 175	1149416	174	82	6.1	5.00 - 9.00	127062206
BFB Mass 176	1149416	174	1287	95.6	95.0 - 101	127062206
BFB Mass 177	1149416	176	75	5.8	5.00 - 9.00	127062206
BFB Mass 50	1149416	95.0	417	16.2	15.0 - 40.0	127062206
BFB Mass 75	1149416	95.0	1299	50.6	30.0 - 60.0	127062206
BFB Mass 95	1149416	95.0	2566	100.0	100 - 100	127062206
BFB Mass 96	1149416	95.0	148	5.8	5.00 - 9.00	127062206

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Acrolein	1149416	ND	3.14	4.00	ug/L	127062210
Acrylonitrile	1149416	ND	1.43	2.00	ug/L	127062210

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS	95920	96680	48340	145000	127062207	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS Dup	96310	96680	48340	145000	127062208	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	Blank	81140	96680	48340	145000	127062210	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS	216500	217500	108800	326300	127062207	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS Dup	216000	217500	108800	326300	127062208	1149416
ChlorobenzeneD5 (ISTD)	1149416	Blank	204600	217500	108800	326300	127062210	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	98060	96680	48340	145000	127062213	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	95140	96680	48340	145000	127062214	1149416
ChlorobenzeneD5 (ISTD)	2356713	MS	215000	217500	108800	326300	127062213	1149416
ChlorobenzeneD5 (ISTD)	2356713	MSD	208200	217500	108800	326300	127062214	1149416

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	81170	96680	48340	145000	127062211	1149416
ChlorobenzeneD5 (ISTD)	2357084	Unknown	202100	217500	108800	326300	127062211	1149416

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS	11.07	11.07	11.01	11.13	127062207	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS Dup	11.07	11.07	11.01	11.13	127062208	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	Blank	11.07	11.07	11.01	11.13	127062210	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS	8.714	8.714	8.654	8.774	127062207	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS Dup	8.714	8.714	8.654	8.774	127062208	1149416
ChlorobenzeneD5 (ISTD)	1149416	Blank	8.715	8.714	8.654	8.774	127062210	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	11.07	11.07	11.01	11.13	127062213	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	11.07	11.07	11.01	11.13	127062214	1149416
ChlorobenzeneD5 (ISTD)	2356713	MS	8.714	8.714	8.654	8.774	127062213	1149416
ChlorobenzeneD5 (ISTD)	2356713	MSD	8.714	8.714	8.654	8.774	127062214	1149416
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	11.07	11.07	11.01	11.13	127062211	1149416
ChlorobenzeneD5 (ISTD)	2357084	Unknown	8.714	8.714	8.654	8.774	127062211	1149416

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Acrolein	1149416	71.3	73.9	40.0	60.0 - 140	178 *	185 *	ug/L	3.86	30.0
Acrylonitrile	1149416	40.2	47.1	40.0	60.0 - 140	100	118	ug/L	16.5	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Acrolein	2356713	853	947	ND	400	40.0 - 160	213 *	237 *	ug/L	10.4	60.0
Acrylonitrile	2356713	376	447	ND	400	40.0 - 160	94.0	112	ug/L	17.3	60.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1149416	LCS	19.9	20.0	ug/L	99.5	70.0 - 130	127062207
1,2-DCA-d4 (SURR)	1149416	LCS Dup	20.0	20.0	ug/L	100	70.0 - 130	127062208
1,2-DCA-d4 (SURR)	1149416	Blank	20.3	20.0	ug/L	102	70.0 - 130	127062210
Bromofluorobenzene (SURR)	1149416	LCS	20.6	20.0	ug/L	103	70.0 - 130	127062207
Bromofluorobenzene (SURR)	1149416	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127062208
Bromofluorobenzene (SURR)	1149416	Blank	18.8	20.0	ug/L	94.0	70.0 - 130	127062210
Dibromofluoromethane (SURR)	1149416	LCS	20.1	20.0	ug/L	100	70.0 - 130	127062207
Dibromofluoromethane (SURR)	1149416	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127062208
Dibromofluoromethane (SURR)	1149416	Blank	20.0	20.0	ug/L	100	70.0 - 130	127062210
ToluneD8 (SURR)	1149416	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	127062207
ToluneD8 (SURR)	1149416	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	127062208
ToluneD8 (SURR)	1149416	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127062210
1,2-DCA-d4 (SURR)	2356713	MS	20.4	20.0	ug/L	102	70.0 - 130	127062213
1,2-DCA-d4 (SURR)	2356713	MSD	20.4	20.0	ug/L	102	70.0 - 130	127062214
Bromofluorobenzene (SURR)	2356713	MS	19.9	20.0	ug/L	99.5	70.0 - 130	127062213
Bromofluorobenzene (SURR)	2356713	MSD	19.6	20.0	ug/L	98.0	70.0 - 130	127062214

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Dibromofluoromethane (SURR)	2356713	MS	20.2	20.0	ug/L	101	70.0 - 130	127062213
Dibromofluoromethane (SURR)	2356713	MSD	20.2	20.0	ug/L	101	70.0 - 130	127062214
TolueneD8 (SURR)	2356713	MS	19.7	20.0	ug/L	98.5	70.0 - 130	127062213
TolueneD8 (SURR)	2356713	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	127062214
1,2-DCA-d4 (SURR)	2357084	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127062211
Bromofluorobenzene (SURR)	2357084	Unknown	18.6	20.0	ug/L	93.0	70.0 - 130	127062211
Dibromofluoromethane (SURR)	2357084	Unknown	20.5	20.0	ug/L	102	70.0 - 130	127062211
TolueneD8 (SURR)	2357084	Unknown	18.9	20.0	ug/L	94.5	70.0 - 130	127062211

Analytical Set 1149420 EPA 624.1

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1149420	174	7	0.5	0 - 2.00	127062245
BFB Mass 174	1149420	95.0	1346	52.5	50.0 - 100	127062245
BFB Mass 175	1149420	174	82	6.1	5.00 - 9.00	127062245
BFB Mass 176	1149420	174	1287	95.6	95.0 - 101	127062245
BFB Mass 177	1149420	176	75	5.8	5.00 - 9.00	127062245
BFB Mass 50	1149420	95.0	417	16.2	15.0 - 40.0	127062245
BFB Mass 75	1149420	95.0	1299	50.6	30.0 - 60.0	127062245
BFB Mass 95	1149420	95.0	2566	100.0	100 - 100	127062245
BFB Mass 96	1149420	95.0	148	5.8	5.00 - 9.00	127062245

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,1,1-Trichloroethane	1149420	ND	0.914	1.00	ug/L	127062249
1,1,2-Trichloroethane	1149420	ND	1.27	2.00	ug/L	127062249
1,1-Dichloroethane	1149420	ND	0.915	1.00	ug/L	127062249
1,1-Dichloroethylene	1149420	ND	0.812	1.00	ug/L	127062249
1,2-Dibromoethane (EDB)	1149420	ND	1.00	1.00	ug/L	127062249
1,2-Dichloroethane	1149420	ND	0.856	1.00	ug/L	127062249
1,2-Dichloropropane	1149420	ND	1.01	1.01	ug/L	127062249
Benzene	1149420	ND	0.813	1.00	ug/L	127062249
Bromodichloromethane	1149420	ND	0.873	1.00	ug/L	127062249
Bromoform	1149420	ND	1.28	2.00	ug/L	127062249
Carbon Tetrachloride	1149420	ND	0.825	1.00	ug/L	127062249
Chlorobenzene	1149420	ND	0.945	1.00	ug/L	127062249
Chloroethane	1149420	ND	3.24	5.00	ug/L	127062249
Chloroform	1149420	ND	0.945	1.00	ug/L	127062249
Chloromethane (Methyl Chloride)	1149420	ND	0.968	1.00	ug/L	127062249
cis-1,3-Dichloropropene	1149420	ND	0.615	1.00	ug/L	127062249
Dibromochloromethane	1149420	ND	0.995	1.00	ug/L	127062249
Dichloromethane	1149420	ND	1.29	2.00	ug/L	127062249
Ethylbenzene	1149420	ND	0.545	1.00	ug/L	127062249
m-Dichlorobenzene (1,3-DCB)	1149420	ND	0.860	1.00	ug/L	127062249
Methyl ethyl ketone (Butanone)	1149420	ND	6.54	10.0	ug/L	127062249

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
o-Dichlorobenzene (1,2-DCB)	1149420	ND	0.960	1.00	ug/L	127062249
p-Dichlorobenzene (1,4-DCB)	1149420	ND	0.865	1.00	ug/L	127062249
Tetrachloroethylene	1149420	ND	0.921	1.00	ug/L	127062249
Toluene	1149420	ND	0.656	1.00	ug/L	127062249
trans-1,2-Dichloroethylene	1149420	ND	0.977	1.00	ug/L	127062249
trans-1,3-Dichloropropene	1149420	ND	0.695	1.00	ug/L	127062249
Trichloroethylene	1149420	ND	0.789	1.00	ug/L	127062249
Vinyl chloride	1149420	ND	1.04	1.04	ug/L	127062249

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS	95920	96680	48340	145000	127062246	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS Dup	96310	96680	48340	145000	127062247	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	Blank	81140	96680	48340	145000	127062249	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS	216500	217500	108800	326300	127062246	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS Dup	216000	217500	108800	326300	127062247	1149420
ChlorobenzeneD5 (ISTD)	1149420	Blank	204600	217500	108800	326300	127062249	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	98060	96680	48340	145000	127062252	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	95140	96680	48340	145000	127062253	1149420
ChlorobenzeneD5 (ISTD)	2356713	MS	215000	217500	108800	326300	127062252	1149420
ChlorobenzeneD5 (ISTD)	2356713	MSD	208200	217500	108800	326300	127062253	1149420
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	81170	96680	48340	145000	127062250	1149420
ChlorobenzeneD5 (ISTD)	2357084	Unknown	202100	217500	108800	326300	127062250	1149420

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS	11.07	11.07	11.01	11.13	127062246	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS Dup	11.07	11.07	11.01	11.13	127062247	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	Blank	11.07	11.07	11.01	11.13	127062249	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS	8.714	8.714	8.654	8.774	127062246	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS Dup	8.714	8.714	8.654	8.774	127062247	1149420
ChlorobenzeneD5 (ISTD)	1149420	Blank	8.715	8.714	8.654	8.774	127062249	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	11.07	11.07	11.01	11.13	127062252	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	11.07	11.07	11.01	11.13	127062253	1149420
ChlorobenzeneD5 (ISTD)	2356713	MS	8.714	8.714	8.654	8.774	127062252	1149420
ChlorobenzeneD5 (ISTD)	2356713	MSD	8.714	8.714	8.654	8.774	127062253	1149420
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	11.07	11.07	11.01	11.13	127062250	1149420
ChlorobenzeneD5 (ISTD)	2357084	Unknown	8.714	8.714	8.654	8.774	127062250	1149420

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,1,1-Trichloroethane	1149420	18.6	18.5	20.0	70.0 - 130	93.0	92.5	ug/L	0.539	21.0
1,1,2,2-Tetrachloroethane	1149420	23.4	23.5	20.0	60.0 - 140	117	118	ug/L	0.851	36.0
1,1,2-Trichloroethane	1149420	21.7	22.0	20.0	70.0 - 130	108	110	ug/L	1.83	27.0
1,1-Dichloroethane	1149420	18.9	19.5	20.0	70.0 - 130	94.5	97.5	ug/L	3.12	24.0
1,1-Dichloroethylene	1149420	17.3	18.2	20.0	50.0 - 150	86.5	91.0	ug/L	5.07	40.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2-Dibromoethane (EDB)	1149420	19.0	19.4	20.0	78.4 - 122	95.0	97.0	ug/L	2.08	30.0
1,2-Dichloroethane	1149420	20.5	20.5	20.0	70.0 - 130	102	102	ug/L	0	29.0
1,2-Dichloropropane	1149420	20.8	20.9	20.0	35.0 - 165	104	104	ug/L	0	69.0
Benzene	1149420	19.4	19.3	20.0	65.0 - 135	97.0	96.5	ug/L	0.517	33.0
Bromodichloromethane	1149420	18.3	17.9	20.0	65.0 - 135	91.5	89.5	ug/L	2.21	34.0
Bromoform	1149420	20.2	20.4	20.0	70.0 - 130	101	102	ug/L	0.985	25.0
Bromomethane (Methyl Bromi	1149420	17.5	17.2	20.0	15.0 - 185	87.5	86.0	ug/L	1.73	90.0
Carbon Tetrachloride	1149420	18.9	19.8	20.0	70.0 - 130	94.5	99.0	ug/L	4.65	26.0
Chlorobenzene	1149420	19.0	19.0	20.0	65.0 - 135	95.0	95.0	ug/L	0	29.0
Chloroethane	1149420	16.2	16.0	20.0	40.0 - 160	81.0	80.0	ug/L	1.24	47.0
Chloroform	1149420	18.9	18.6	20.0	70.0 - 135	94.5	93.0	ug/L	1.60	32.0
Chloromethane (Methyl Chloride)	1149420	16.1	15.6	20.0	0.100 - 205	80.5	78.0	ug/L	3.15	472
cis-1,3-Dichloropropene	1149420	16.4	16.2	20.0	25.0 - 175	82.0	81.0	ug/L	1.23	79.0
Dibromochloromethane	1149420	20.6	20.0	20.0	70.0 - 135	103	100	ug/L	2.96	30.0
Dichloromethane	1149420	16.8	18.4	20.0	60.0 - 140	84.0	92.0	ug/L	9.09	192
Ethylbenzene	1149420	19.3	19.9	20.0	60.0 - 140	96.5	99.5	ug/L	3.06	34.0
m-Dichlorobenzene (1,3-DCB)	1149420	19.7	20.1	20.0	70.0 - 130	98.5	100	ug/L	1.51	24.0
Methyl ethyl ketone (Butanone)	1149420	22.3	22.5	20.0	62.3 - 136	112	112	ug/L	0	30.0
o-Dichlorobenzene (1,2-DCB)	1149420	16.0	16.2	20.0	65.0 - 135	80.0	81.0	ug/L	1.24	31.0
p-Dichlorobenzene (1,4-DCB)	1149420	15.0	15.3	20.0	65.0 - 135	75.0	76.5	ug/L	1.98	31.0
Tetrachloroethylene	1149420	20.8	21.1	20.0	70.0 - 130	104	106	ug/L	1.90	23.0
Toluene	1149420	19.0	19.2	20.0	70.0 - 130	95.0	96.0	ug/L	1.05	22.0
trans-1,2-Dichloroethylene	1149420	16.6	17.2	20.0	70.0 - 130	83.0	86.0	ug/L	3.55	27.0
trans-1,3-Dichloropropene	1149420	16.9	16.8	20.0	50.0 - 150	84.5	84.0	ug/L	0.593	52.0
Trichloroethylene	1149420	18.9	19.0	20.0	65.0 - 135	94.5	95.0	ug/L	0.528	29.0
Vinyl chloride	1149420	14.2	13.6	20.0	5.00 - 195	71.0	68.0	ug/L	4.32	100

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
1,1,1-Trichloroethane	2356713	187	191	ND	200	52.0 - 162	93.5	95.5	ug/L	2.12	36.0
1,1,2,2-Tetrachloroethane	2356713	216	223	ND	200	46.0 - 157	108	112	ug/L	3.19	61.0
1,1,2-Trichloroethane	2356713	208	218	ND	200	52.0 - 150	104	109	ug/L	4.69	45.0
1,1-Dichloroethane	2356713	188	197	ND	200	59.0 - 155	94.0	98.5	ug/L	4.68	40.0
1,1-Dichloroethylene	2356713	163	182	ND	200	0.100 - 234	81.5	91.0	ug/L	11.0	32.0
1,2-Dibromoethane (EDB)	2356713	183	191	ND	200	49.3 - 120	91.5	95.5	ug/L	4.28	30.0
1,2-Dichloroethane	2356713	199	202	ND	200	49.0 - 155	99.5	101	ug/L	1.50	49.0
1,2-Dichloropropane	2356713	205	209	ND	200	0.100 - 210	102	104	ug/L	1.93	55.0
Benzene	2356713	191	194	ND	200	37.0 - 151	95.5	97.0	ug/L	1.56	61.0
Bromodichloromethane	2356713	190	195	ND	200	35.0 - 155	95.0	97.5	ug/L	2.60	56.0
Bromoform	2356713	193	191	ND	200	45.0 - 169	96.5	95.5	ug/L	1.04	42.0
Bromomethane (Methyl Bromi	2356713	180	185	ND	200	0.100 - 242	90.0	92.5	ug/L	2.74	61.0
Carbon Tetrachloride	2356713	182	187	ND	200	70.0 - 140	91.0	93.5	ug/L	2.71	41.0
Chlorobenzene	2356713	187	192	ND	200	37.0 - 160	93.5	96.0	ug/L	2.64	53.0
Chloroethane	2356713	158	164	ND	200	14.0 - 230	79.0	82.0	ug/L	3.73	78.0
Chloroform	2356713	245	248	ND	200	51.0 - 138	122	124	ug/L	1.22	54.0

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Public Utilities Board
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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloromethane (Methyl Chloride)	2356713	168	163	ND	200	0.100 - 273	84.0	81.5	ug/L	3.02	60.0
cis-1,3-Dichloropropene	2356713	156	163	ND	200	0.100 - 227	78.0	81.5	ug/L	4.39	58.0
Dibromochloromethane	2356713	200	206	ND	200	53.0 - 149	100	103	ug/L	2.96	50.0
Dichloromethane	2356713	160	182	ND	200	0.100 - 221	80.0	91.0	ug/L	12.9	28.0
Ethylbenzene	2356713	188	195	ND	200	37.0 - 162	94.0	97.5	ug/L	3.66	63.0
m-Dichlorobenzene (1,3-DCB)	2356713	181	187	ND	200	59.0 - 156	90.5	93.5	ug/L	3.26	43.0
Methyl ethyl ketone (Butanone)	2356713	239	247	ND	200	0.100 - 211	120	124	ug/L	3.29	30.0
o-Dichlorobenzene (1,2-DCB)	2356713	144	151	ND	200	18.0 - 190	72.0	75.5	ug/L	4.75	57.0
p-Dichlorobenzene (1,4-DCB)	2356713	138	143	ND	200	18.0 - 190	69.0	71.5	ug/L	3.56	57.0
Tetrachloroethylene	2356713	199	209	ND	200	64.0 - 148	99.5	104	ug/L	4.90	39.0
Toluene	2356713	186	190	ND	200	47.0 - 150	93.0	95.0	ug/L	2.13	41.0
trans-1,2-Dichloroethylene	2356713	161	173	ND	200	54.0 - 156	80.5	86.5	ug/L	7.19	45.0
trans-1,3-Dichloropropene	2356713	165	170	ND	200	17.0 - 183	82.5	85.0	ug/L	2.99	86.0
Trichloroethylene	2356713	184	193	ND	200	70.0 - 157	92.0	96.5	ug/L	4.77	48.0
Vinyl chloride	2356713	251	282	ND	200	0.100 - 251	126	141	ug/L	11.6	66.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1149420	LCS	19.9	20.0	ug/L	99.5	70.0 - 130	127062246
1,2-DCA-d4 (SURR)	1149420	LCS Dup	20.0	20.0	ug/L	100	70.0 - 130	127062247
1,2-DCA-d4 (SURR)	1149420	Blank	20.3	20.0	ug/L	102	70.0 - 130	127062249
Bromofluorobenzene (SURR)	1149420	LCS	20.6	20.0	ug/L	103	70.0 - 130	127062246
Bromofluorobenzene (SURR)	1149420	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127062247
Bromofluorobenzene (SURR)	1149420	Blank	18.8	20.0	ug/L	94.0	70.0 - 130	127062249
Dibromofluoromethane (SURR)	1149420	LCS	20.1	20.0	ug/L	100	70.0 - 130	127062246
Dibromofluoromethane (SURR)	1149420	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127062247
Dibromofluoromethane (SURR)	1149420	Blank	20.0	20.0	ug/L	100	70.0 - 130	127062249
ToluneneD8 (SURR)	1149420	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	127062246
ToluneneD8 (SURR)	1149420	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	127062247
ToluneneD8 (SURR)	1149420	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127062249
1,2-DCA-d4 (SURR)	2356713	MS	20.4	20.0	ug/L	102	70.0 - 130	127062252
1,2-DCA-d4 (SURR)	2356713	MSD	20.4	20.0	ug/L	102	70.0 - 130	127062253
Bromofluorobenzene (SURR)	2356713	MS	19.9	20.0	ug/L	99.5	70.0 - 130	127062252
Bromofluorobenzene (SURR)	2356713	MSD	19.6	20.0	ug/L	98.0	70.0 - 130	127062253
Dibromofluoromethane (SURR)	2356713	MS	20.2	20.0	ug/L	101	70.0 - 130	127062252
Dibromofluoromethane (SURR)	2356713	MSD	20.2	20.0	ug/L	101	70.0 - 130	127062253
ToluneneD8 (SURR)	2356713	MS	19.7	20.0	ug/L	98.5	70.0 - 130	127062252
ToluneneD8 (SURR)	2356713	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	127062253
1,2-DCA-d4 (SURR)	2357084	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127062250
Bromofluorobenzene (SURR)	2357084	Unknown	18.6	20.0	ug/L	93.0	70.0 - 130	127062250
Dibromofluoromethane (SURR)	2357084	Unknown	20.5	20.0	ug/L	102	70.0 - 130	127062250
ToluneneD8 (SURR)	2357084	Unknown	18.9	20.0	ug/L	94.5	70.0 - 130	127062250

Analytical Set 1149585 TX 1001

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1148986	ND	0.005	0.007	ug/L	127067442

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Tributyltin hydride	43600	50000	ug/L	87.2	70.0 - 130	127067441

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1148986	222	217	500	0.100 - 211	44.4	43.4	ug/L	2.28	30.0

Analytical Set 1149931 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1149464	ND	0.202	0.202	ug/L	127074031
PCB-1221	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1232	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1242	1149464	ND	0.192	0.200	ug/L	127074031
PCB-1248	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1254	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1260	1149464	ND	0.161	0.200	ug/L	127074031
PCB-1262	1149464	ND	0.198	0.200	ug/L	127074031
PCB-1268	1149464	ND	0.143	0.200	ug/L	127074031

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1240	1000	ug/L	124	80.0 - 115	*	127074030
PCB-1016	1700	1000	ug/L	170	80.0 - 115	*	127074037
PCB-1260	1080	1000	ug/L	108	80.0 - 115		127074030
PCB-1260	1500	1000	ug/L	150	80.0 - 115	*	127074037

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1149464	4.59	4.43	10.0	39.8 - 135	45.9	44.3	ug/L	3.55	30.0
PCB-1260	1149464	4.58	3.99	10.0	36.1 - 134	45.8	39.9	ug/L	13.8	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1149464	Blank	58.9	100	ug/L	58.9	10.0 - 200	127074031
Tetrachloro-m-Xylene (Surr)	1149464	Blank	51.3	100	ug/L	51.3	10.0 - 200	127074031
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	10.0 - 200	127074034
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	10.0 - 200	127074034

Analytical Set 1149957 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1149462	ND	3.52	5.00	ug/L	127074742

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Methoxychlor	1149462	ND	0.897	1.00	ug/L	127074742
Mirex	1149462	ND	0.905	1.00	ug/L	127074742

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Kelthane (Dicofol)	101	100	ug/L	101	70.0 - 130		127074740
Kelthane (Dicofol)	35.4	100	ug/L	35.4	70.0 - 130	*	127074751
Methoxychlor	50.2	50.0	ug/L	100	70.0 - 130		127074740
Methoxychlor	34.3	50.0	ug/L	68.7	70.0 - 130	*	127074751
Mirex	49.6	50.0	ug/L	99.2	70.0 - 130		127074740
Mirex	47.4	50.0	ug/L	94.7	70.0 - 130		127074751

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1149462	192	184	100	0.100 - 137	192 *	184 *	ug/L	4.26	30.0
Methoxychlor	1149462	131	128	100	21.5 - 151	131	128	ug/L	2.32	30.0
Mirex	1149462	104	100	100	11.6 - 140	104	100	ug/L	3.92	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	45.5	100	ug/L	45.5	10.0 - 150	127074740
Decachlorobiphenyl	627643	CCV	47.2	100	ug/L	47.2	10.0 - 150	127074751
Tetrachloro-m-Xylene (Surr)	627643	CCV	42.3	100	ug/L	42.3	10.0 - 150	127074740
Tetrachloro-m-Xylene (Surr)	627643	CCV	39.5	100	ug/L	39.5	10.0 - 150	127074751
Decachlorobiphenyl	1149462	Blank	58.9	100	ug/L	58.9	10.0 - 150	127074742
Decachlorobiphenyl	1149462	LCS	87.3	100	ug/L	87.3	10.0 - 150	127074743
Decachlorobiphenyl	1149462	LCS Dup	101	100	ug/L	101	10.0 - 150	127074744
Tetrachloro-m-Xylene (Surr)	1149462	Blank	51.3	100	ug/L	51.3	10.0 - 150	127074742
Tetrachloro-m-Xylene (Surr)	1149462	LCS	72.5	100	ug/L	72.5	10.0 - 150	127074743
Tetrachloro-m-Xylene (Surr)	1149462	LCS Dup	63.0	100	ug/L	63.0	10.0 - 150	127074744
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	10.0 - 150	127074745
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	10.0 - 150	127074745

Analytical Set 1150009 EPA 608.3

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1149462	ND	0.731	1.00	ug/L	127076125
4,4-DDE	1149462	ND	0.361	1.00	ug/L	127076125
4,4-DDT	1149462	ND	0.862	1.00	ug/L	127076125
Aldrin	1149462	ND	0.260	1.00	ug/L	127076125
Alpha-BHC(hexachlorocyclohexane)	1149462	ND	0.280	1.00	ug/L	127076125
Beta-BHC(hexachlorocyclohexane)	1149462	ND	0.579	1.00	ug/L	127076125
Chlordane	1149462	ND	0.0183	0.020	ug/L	127076125
Delta-BHC(hexachlorocyclohexane)	1149462	ND	0.898	1.00	ug/L	127076125
Dieldrin	1149462	ND	0.162	1.00	ug/L	127076125
Endosulfan I (alpha)	1149462	ND	0.679	1.00	ug/L	127076125

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Endosulfan II (beta)	1149462	ND	0.356	1.00	ug/L	127076125
Endosulfan sulfate	1149462	ND	0.588	1.00	ug/L	127076125
Endrin	1149462	ND	0.538	1.00	ug/L	127076125
Endrin aldehyde	1149462	ND	0.699	1.00	ug/L	127076125
Gamma-BHC(Lindane)	1149462	ND	0.385	1.00	ug/L	127076125
Heptachlor	1149462	ND	0.207	1.00	ug/L	127076125
Heptachlor epoxide	1149462	ND	0.660	1.00	ug/L	127076125
Toxaphene	1149462	ND	0.169	0.200	ug/L	127076125

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
4,4-DDD	49.3	50.0	ug/L	98.6	85.0 - 115		127076123
4,4-DDD	55.3	50.0	ug/L	111	85.0 - 115		127076133
4,4-DDE	46.9	50.0	ug/L	93.8	85.0 - 115		127076123
4,4-DDE	53.5	50.0	ug/L	107	85.0 - 115		127076133
4,4-DDT	51.4	50.0	ug/L	103	85.0 - 115		127076123
4,4-DDT	30.8	50.0	ug/L	61.6	85.0 - 115	*	127076133
Aldrin	45.5	50.0	ug/L	91.0	85.0 - 115		127076123
Aldrin	53.7	50.0	ug/L	107	85.0 - 115		127076133
Alpha-BHC(hexachlorocyclohexane)	47.0	50.0	ug/L	94.0	85.0 - 115		127076123
Alpha-BHC(hexachlorocyclohexane)	54.5	50.0	ug/L	109	85.0 - 115		127076133
Beta-BHC(hexachlorocyclohexane)	45.0	50.0	ug/L	90.0	85.0 - 115		127076123
Beta-BHC(hexachlorocyclohexane)	50.9	50.0	ug/L	102	85.0 - 115		127076133
Delta-BHC(hexachlorocyclohexane)	47.4	50.0	ug/L	94.8	85.0 - 115		127076123
Delta-BHC(hexachlorocyclohexane)	55.4	50.0	ug/L	111	85.0 - 115		127076133
Dieldrin	46.9	50.0	ug/L	93.8	85.0 - 115		127076123
Dieldrin	51.7	50.0	ug/L	103	85.0 - 115		127076133
Endosulfan I (alpha)	44.9	50.0	ug/L	89.8	85.0 - 115		127076123
Endosulfan I (alpha)	49.4	50.0	ug/L	98.8	85.0 - 115		127076133
Endosulfan II (beta)	45.7	50.0	ug/L	91.4	85.0 - 115		127076123
Endosulfan II (beta)	50.2	50.0	ug/L	100	85.0 - 115		127076133
Endosulfan sulfate	49.8	50.0	ug/L	99.6	85.0 - 115		127076123
Endosulfan sulfate	55.1	50.0	ug/L	110	85.0 - 115		127076133
Endrin	46.3	50.0	ug/L	92.6	85.0 - 115		127076123
Endrin	51.2	50.0	ug/L	102	85.0 - 115		127076133
Endrin aldehyde	47.4	50.0	ug/L	94.8	85.0 - 115		127076123
Endrin aldehyde	43.7	50.0	ug/L	87.4	85.0 - 115		127076133
Gamma-BHC(Lindane)	46.5	50.0	ug/L	93.0	85.0 - 115		127076123
Gamma-BHC(Lindane)	47.7	50.0	ug/L	95.4	85.0 - 115		127076133
Heptachlor	44.1	50.0	ug/L	88.2	85.0 - 115		127076123
Heptachlor	37.1	50.0	ug/L	74.2	85.0 - 115	*	127076133
Heptachlor epoxide	44.7	50.0	ug/L	89.4	85.0 - 115		127076123
Heptachlor epoxide	51.2	50.0	ug/L	102	85.0 - 115		127076133

PUB6-R

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1149462	116	110	100	32.8 - 155	116	110	ug/L	5.31	40.0
4,4-DDE	1149462	101	94.6	100	29.9 - 133	101	94.6	ug/L	6.54	40.0
4,4-DDT	1149462	133	125	100	30.5 - 141	133	125	ug/L	6.20	40.0
Aldrin	1149462	90.8	79.6	100	19.0 - 121	90.8	79.6	ug/L	13.1	40.0
Alpha-BHC(hexachlorocyclohexane)	1149462	95.0	85.0	100	42.2 - 126	95.0	85.0	ug/L	11.1	40.0
Beta-BHC(hexachlorocyclohexane)	1149462	92.5	85.8	100	47.1 - 157	92.5	85.8	ug/L	7.52	40.0
Delta-BHC(hexachlorocyclohexane)	1149462	107	99.0	100	43.5 - 142	107	99.0	ug/L	7.77	40.0
Dieldrin	1149462	101	93.6	100	34.0 - 132	101	93.6	ug/L	7.61	40.0
Endosulfan I (alpha)	1149462	95.8	88.5	100	40.3 - 129	95.8	88.5	ug/L	7.92	40.0
Endosulfan II (beta)	1149462	101	94.5	100	41.8 - 137	101	94.5	ug/L	6.65	40.0
Endosulfan sulfate	1149462	111	107	100	42.6 - 153	111	107	ug/L	3.67	40.0
Endrin	1149462	104	99.7	100	40.4 - 135	104	99.7	ug/L	4.22	40.0
Endrin aldehyde	1149462	111	105	100	20.3 - 199	111	105	ug/L	5.56	40.0
Gamma-BHC(Lindane)	1149462	95.2	85.3	100	44.5 - 129	95.2	85.3	ug/L	11.0	40.0
Heptachlor	1149462	90.8	78.0	100	17.6 - 134	90.8	78.0	ug/L	15.2	40.0
Heptachlor epoxide	1149462	94.7	87.0	100	38.2 - 125	94.7	87.0	ug/L	8.48	40.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	45.5	100	ug/L	45.5	0.100 - 129	127076123
Decachlorobiphenyl	627643	CCV	47.2	100	ug/L	47.2	0.100 - 129	127076133
Tetrachloro-m-Xylene (Surr)	627643	CCV	42.3	100	ug/L	42.3	0.100 - 149	127076123
Tetrachloro-m-Xylene (Surr)	627643	CCV	39.5	100	ug/L	39.5	0.100 - 149	127076133
Decachlorobiphenyl	1149462	Blank	58.9	100	ug/L	58.9	0.100 - 129	127076125
Decachlorobiphenyl	1149462	LCS	87.3	100	ug/L	87.3	0.100 - 129	127076126
Decachlorobiphenyl	1149462	LCS Dup	101	100	ug/L	101	0.100 - 129	127076127
Tetrachloro-m-Xylene (Surr)	1149462	Blank	51.3	100	ug/L	51.3	0.100 - 149	127076125
Tetrachloro-m-Xylene (Surr)	1149462	LCS	72.5	100	ug/L	72.5	0.100 - 149	127076126
Tetrachloro-m-Xylene (Surr)	1149462	LCS Dup	63.0	100	ug/L	63.0	0.100 - 149	127076127
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	0.100 - 129	127076128
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	0.100 - 149	127076128

Analytical Set 1150042 EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1149646	ND	15.9	50.0	ug/L	127077872
2,4,5-TP (Silvex)	1149646	ND	8.93	30.0	ug/L	127077872

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	159	150	ug/L	106	80.0 - 115		127077863
2,4 Dichlorophenoxyacetic acid	170	150	ug/L	113	80.0 - 115		127077871
2,4 Dichlorophenoxyacetic acid	179	150	ug/L	119	80.0 - 115	*	127077880
2,4,5-TP (Silvex)	165	150	ug/L	110	80.0 - 115		127077863
2,4,5-TP (Silvex)	169	150	ug/L	113	80.0 - 115		127077871

PUB6-R

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Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4,5-TP (Silvex)	171	150	ug/L	114	80.0 - 115	127077880

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1149646	136	138	100	0.100 - 319	136	138	ug/L	1.46	30.0
2,4,5-TP (Silvex)	1149646	104	109	100	0.100 - 244	104	109	ug/L	4.69	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	143	200	ug/L	71.5	0.100 - 313	127077863
2,4-Dichlorophenylacetic Acid		CCV	147	200	ug/L	73.5	0.100 - 313	127077871
2,4-Dichlorophenylacetic Acid		CCV	146	200	ug/L	73.0	0.100 - 313	127077880
2,4-Dichlorophenylacetic Acid	1149646	Blank	107	200	ug/L	53.5	0.100 - 313	127077872
2,4-Dichlorophenylacetic Acid	1149646	LCS	101	200	ug/L	50.5	0.100 - 313	127077873
2,4-Dichlorophenylacetic Acid	1149646	LCS Dup	117	200	ug/L	58.5	0.100 - 313	127077874
2,4-Dichlorophenylacetic Acid	2357077	Unknown	1.37	1.99	ug/L	68.8	0.100 - 313	127077876

Analytical Set 1150158 EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1149630	ND	0.517	1.00	ug/L	127079848
1,2,4-Trichlorobenzene	1149630	ND	0.720	1.00	ug/L	127079848
1,2-Dichlorobenzene	1149630	ND	0.598	1.00	ug/L	127079848
1,2-DPH (as azobenzene)	1149630	ND	0.695	1.00	ug/L	127079848
1,3-Dichlorobenzene	1149630	ND	0.686	1.00	ug/L	127079848
1,4-Dichlorobenzene	1149630	ND	0.633	1.00	ug/L	127079848
2,4,5-Trichlorophenol	1149630	ND	0.734	1.00	ug/L	127079848
2,4,6-Trichlorophenol	1149630	ND	0.704	1.00	ug/L	127079848
2,4-Dichlorophenol	1149630	ND	0.567	1.00	ug/L	127079848
2,4-Dimethylphenol	1149630	ND	2.32	2.40	ug/L	127079848
2,4-Dinitrophenol	1149630	ND	8.07	9.00	ug/L	127079848
2,4-Dinitrotoluene	1149630	ND	3.35	3.50	ug/L	127079848
2,6-Dinitrotoluene	1149630	ND	0.675	1.00	ug/L	127079848
2-Chloronaphthalene	1149630	ND	0.333	1.00	ug/L	127079848
2-Chlorophenol	1149630	ND	0.367	1.00	ug/L	127079848
2-Methylphenol (o-Cresol)	1149630	ND	5.13	5.20	ug/L	127079848
2-Nitrophenol	1149630	ND	0.495	1.00	ug/L	127079848
3&4-Methylphenol (m&p-Cresol)	1149630	ND	6.15	6.20	ug/L	127079848
3,3'-Dichlorobenzidine	1149630	ND	4.79	5.00	ug/L	127079848
4,6-Dinitro-2-methylphenol	1149630	ND	7.88	8.00	ug/L	127079848
4-Bromophenyl phenyl ether	1149630	ND	0.311	1.00	ug/L	127079848
4-Chlorophenyl phenyl ethe	1149630	ND	0.281	1.00	ug/L	127079848
4-Nitrophenol	1149630	ND	0.932	1.00	ug/L	127079848
Acenaphthene	1149630	ND	0.139	1.00	ug/L	127079848
Acenaphthylene	1149630	ND	0.202	1.00	ug/L	127079848

QUALITY CONTROL

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Aniline	1149630	ND	0.367	1.00	ug/L	127079848
Anthracene	1149630	ND	0.538	1.00	ug/L	127079848
Benzidine	1149630	ND	19.9	20.0	ug/L	127079848
Benzo(a)anthracene	1149630	ND	0.627	1.00	ug/L	127079848
Benzo(a)pyrene	1149630	ND	0.478	1.00	ug/L	127079848
Benzo(b)fluoranthene	1149630	ND	0.517	1.00	ug/L	127079848
Benzo(ghi)perylene	1149630	ND	0.750	1.00	ug/L	127079848
Benzo(k)fluoranthene	1149630	ND	0.763	1.00	ug/L	127079848
Benzyl Butyl phthalate	1149630	0.890	0.696	7.50	ug/L	127079848
Bis(2-chloroethoxy)methane	1149630	ND	0.312	1.00	ug/L	127079848
Bis(2-chloroethyl)ether	1149630	ND	0.434	1.00	ug/L	127079848
Bis(2-chloroisopropyl)ether	1149630	ND	0.448	1.00	ug/L	127079848
Bis(2-ethylhexyl)phthalate	1149630	ND	1.63	7.50	ug/L	127079848
Chrysene (Benzo(a)phenanthrene)	1149630	ND	0.575	1.00	ug/L	127079848
Dibenz(a,h)anthracene	1149630	ND	0.872	1.00	ug/L	127079848
Diethyl phthalate	1149630	ND	0.721	5.70	ug/L	127079848
Dimethyl phthalate	1149630	ND	0.497	4.80	ug/L	127079848
Di-n-butylphthalate	1149630	ND	0.834	7.50	ug/L	127079848
Di-n-octylphthalate	1149630	0.890	0.782	1.00	ug/L	127079848
Fluoranthene(Benzo(j,k)fluorene)	1149630	ND	0.772	1.00	ug/L	127079848
Fluorene	1149630	ND	0.512	1.00	ug/L	127079848
Hexachlorobenzene	1149630	ND	0.187	1.00	ug/L	127079848
Hexachlorobutadiene	1149630	ND	0.618	1.00	ug/L	127079848
Hexachlorocyclopentadiene	1149630	ND	8.69	9.00	ug/L	127079848
Hexachloroethane	1149630	ND	0.789	1.00	ug/L	127079848
Indeno(1,2,3-cd)pyrene	1149630	ND	0.793	1.00	ug/L	127079848
Isophorone	1149630	ND	0.468	1.00	ug/L	127079848
Naphthalene	1149630	ND	0.387	1.00	ug/L	127079848
Nitrobenzene	1149630	ND	0.390	1.00	ug/L	127079848
n-Nitrosodiethylamine	1149630	ND	0.282	1.00	ug/L	127079848
N-Nitrosodimethylamine	1149630	ND	6.64	7.00	ug/L	127079848
n-Nitroso-di-n-butylamine	1149630	ND	0.403	1.00	ug/L	127079848
N-Nitrosodi-n-propylamine	1149630	ND	0.777	1.00	ug/L	127079848
N-Nitrosodiphenylamine (as DPA	1149630	ND	0.427	1.00	ug/L	127079848
p-Chloro-m-Cresol (4-Chloro-3-me	1149630	ND	2.35	2.40	ug/L	127079848
Pentachlorobenzene	1149630	ND	0.420	1.00	ug/L	127079848
Pentachlorophenol	1149630	0.990	0.129	1.00	ug/L	127079848
Phenanthrene	1149630	ND	0.624	1.00	ug/L	127079848
Phenol	1149630	ND	1.50	1.50	ug/L	127079848
Pyrene	1149630	ND	0.587	1.00	ug/L	127079848
Pyridine	1149630	ND	5.33	5.40	ug/L	127079848

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	49800	50000	ug/L	99.6	60.0 - 140	127079847

QUALITY CONTROL

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2,4-Trichlorobenzene	51500	50000	ug/L	103	61.0 - 130	127079847
1,2-Dichlorobenzene	51200	50000	ug/L	102	60.0 - 140	127079847
1,2-DPH (as azobenzene)	62600	50000	ug/L	125	60.0 - 140	127079847
1,3-Dichlorobenzene	51200	50000	ug/L	102	60.0 - 140	127079847
1,4-Dichlorobenzene	49600	50000	ug/L	99.2	60.0 - 140	127079847
2,4,5-Trichlorophenol	48300	50000	ug/L	96.6	69.0 - 130	127079847
2,4,6-Trichlorophenol	47400	50000	ug/L	94.8	69.0 - 130	127079847
2,4-Dichlorophenol	46600	50000	ug/L	93.2	64.0 - 130	127079847
2,4-Dimethylphenol	43200	50000	ug/L	86.4	58.0 - 130	127079847
2,4-Dinitrophenol	37400	50000	ug/L	74.8	39.0 - 173	127079847
2,4-Dinitrotoluene	47700	50000	ug/L	95.4	53.0 - 130	127079847
2,6-Dinitrotoluene	49100	50000	ug/L	98.2	68.0 - 137	127079847
2-Chloronaphthalene	44400	50000	ug/L	88.8	70.0 - 130	127079847
2-Chlorophenol	47800	50000	ug/L	95.6	55.0 - 130	127079847
2-Methylphenol (o-Cresol)	43500	50000	ug/L	87.0	60.0 - 140	127079847
2-Nitrophenol	48100	50000	ug/L	96.2	61.0 - 163	127079847
3&4-Methylphenol (m&p-Cresol)	42900	50000	ug/L	85.8	60.0 - 140	127079847
3,3'-Dichlorobenzidine	55200	50000	ug/L	110	18.0 - 213	127079847
4,6-Dinitro-2-methylphenol	53200	50000	ug/L	106	56.0 - 130	127079847
4-Bromophenyl phenyl ether	63900	50000	ug/L	128	70.0 - 130	127079847
4-Chlorophenyl phenyl ethe	47500	50000	ug/L	95.0	57.0 - 145	127079847
4-Nitrophenol	38700	50000	ug/L	77.4	35.0 - 135	127079847
Acenaphthene	48600	50000	ug/L	97.2	70.0 - 130	127079847
Acenaphthylene	49300	50000	ug/L	98.6	60.0 - 130	127079847
Aniline	37200	50000	ug/L	74.4	60.0 - 140	127079847
Anthracene	53600	50000	ug/L	107	58.0 - 130	127079847
Benzidine	14400	50000	ug/L	28.8	20.0 - 180	127079847
Benzo(a)anthracene	48700	50000	ug/L	97.4	42.0 - 133	127079847
Benzo(a)pyrene	53900	50000	ug/L	108	32.0 - 148	127079847
Benzo(b)fluoranthene	45500	50000	ug/L	91.0	42.0 - 140	127079847
Benzo(ghi)perylene	71900	50000	ug/L	144	13.0 - 195	127079847
Benzo(k)fluoranthene	53000	50000	ug/L	106	25.0 - 146	127079847
Benzyl Butyl phthalate	47800	50000	ug/L	95.6	43.0 - 140	127079847
Bis(2-chloroethoxy)methane	48000	50000	ug/L	96.0	52.0 - 164	127079847
Bis(2-chloroethyl)ether	48400	50000	ug/L	96.8	52.0 - 130	127079847
Bis(2-chloroisopropyl)ether	51300	50000	ug/L	103	63.0 - 139	127079847
Bis(2-ethylhexyl)phthalate	54000	50000	ug/L	108	43.0 - 137	127079847
Chrysene (Benzo(a)phenanthrene)	49600	50000	ug/L	99.2	44.0 - 140	127079847
Dibenz(a,h)anthracene	62700	50000	ug/L	125	13.0 - 200	127079847
Diethyl phthalate	50400	50000	ug/L	101	47.0 - 130	127079847
Dimethyl phthalate	51400	50000	ug/L	103	50.0 - 130	127079847
Di-n-butylphthalate	58400	50000	ug/L	117	52.0 - 130	127079847
Di-n-octylphthalate	46000	50000	ug/L	92.0	21.0 - 132	127079847
Fluoranthene(Benzo(j,k)fluorene)	49800	50000	ug/L	99.6	47.0 - 130	127079847
Fluorene	48000	50000	ug/L	96.0	70.0 - 130	127079847

QUALITY CONTROL

PUB6-R

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Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorobenzene	68100	50000	ug/L	136	38.0 - 142	127079847
Hexachlorobutadiene	56800	50000	ug/L	114	68.0 - 130	127079847
Hexachlorocyclopentadiene	45400	50000	ug/L	90.8	60.0 - 140	127079847
Hexachloroethane	52200	50000	ug/L	104	55.0 - 130	127079847
Indeno(1,2,3-cd)pyrene	63800	50000	ug/L	128	13.0 - 151	127079847
Isophorone	55400	50000	ug/L	111	52.0 - 180	127079847
Naphthalene	49800	50000	ug/L	99.6	70.0 - 130	127079847
Nitrobenzene	51100	50000	ug/L	102	54.0 - 158	127079847
n-Nitrosodiethylamine	43400	50000	ug/L	86.8	60.0 - 140	127079847
N-Nitrosodimethylamine	63100	50000	ug/L	126	60.0 - 140	127079847
n-Nitroso-di-n-butylamine	51700	50000	ug/L	103	60.0 - 140	127079847
N-Nitrosodi-n-propylamine	53900	50000	ug/L	108	59.0 - 170	127079847
N-Nitrosodiphenylamine (as DPA	46500	50000	ug/L	93.0	60.0 - 140	127079847
p-Chloro-m-Cresol (4-Chloro-3-me	46800	50000	ug/L	93.6	68.0 - 130	127079847
Pentachlorobenzene	49700	50000	ug/L	99.4	60.0 - 140	127079847
Pentachlorophenol	48100	50000	ug/L	96.2	42.0 - 152	127079847
Phenanthrene	52500	50000	ug/L	105	67.0 - 130	127079847
Phenol	38200	50000	ug/L	76.4	48.0 - 130	127079847
Pyrene	47300	50000	ug/L	94.6	70.0 - 130	127079847
Pyridine	50600	50000	ug/L	101	60.0 - 140	127079847

DFTPP

Parameter		RefMass	Reading	%	Limits%	File
DFTPP Mass 127	628072	198	11979	57.2	40.0 - 60.0	127079845
DFTPP Mass 197	628072	198	0	0.0	0 - 1.00	127079845
DFTPP Mass 198	628072	198	20957	100.0	100 - 100	127079845
DFTPP Mass 199	628072	198	1410	6.7	5.00 - 9.00	127079845
DFTPP Mass 275	628072	198	5367	25.6	10.0 - 30.0	127079845
DFTPP Mass 365	628072	198	1221	5.8	1.00 - 100	127079845
DFTPP Mass 441	628072	443	2255	76.0	0 - 100	127079845
DFTPP Mass 442	628072	198	14636	69.8	40.0 - 100	127079845
DFTPP Mass 443	628072	442	2969	20.3	17.0 - 23.0	127079845
DFTPP Mass 51	628072	198	12210	58.3	30.0 - 60.0	127079845
DFTPP Mass 68	628072	69.0	91	0.8	0 - 2.00	127079845
DFTPP Mass 69	628072	198	12052	57.5	0 - 100	127079845
DFTPP Mass 70	628072	69.0	59	0.5	0 - 2.00	127079845

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1149630	18.1	19.6	25.0	27.5 - 85.5	72.4	78.4	ug/L	7.96	50.0
1,2,4-Trichlorobenzene	1149630	17.1	19.0	25.0	44.0 - 142	68.4	76.0	ug/L	10.5	50.0
1,2-Dichlorobenzene	1149630	15.0	18.2	25.0	23.0 - 81.8	60.0	72.8	ug/L	19.3	50.0
1,2-DPH (as azobenzene)	1149630	21.8	22.9	25.0	12.6 - 110	87.2	91.6	ug/L	4.92	50.0
1,3-Dichlorobenzene	1149630	14.2	16.6	25.0	21.1 - 80.5	56.8	66.4	ug/L	15.6	50.0
1,4-Dichlorobenzene	1149630	14.6	16.3	25.0	21.4 - 76.9	58.4	65.2	ug/L	11.0	50.0

QUALITY CONTROL

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
2,4,5-Trichlorophenol	1149630	17.5	19.2	25.0	51.3 - 109	70.0	76.8	ug/L	9.26	50.0
2,4,6-Trichlorophenol	1149630	18.1	19.3	25.0	37.0 - 144	72.4	77.2	ug/L	6.42	58.0
2,4-Dichlorophenol	1149630	17.8	18.7	25.0	39.0 - 135	71.2	74.8	ug/L	4.93	50.0
2,4-Dimethylphenol	1149630	9.64	18.1	25.0	23.0 - 120	38.6	72.4	ug/L	60.9	68.0
2,4-Dinitrophenol	1149630	10.3	9.59	25.0	0.100 - 191	41.2	38.4	ug/L	7.04	132
2,4-Dinitrotoluene	1149630	17.0	18.2	25.0	39.0 - 139	68.0	72.8	ug/L	6.82	42.0
2,6-Dinitrotoluene	1149630	19.0	20.2	25.0	50.0 - 158	76.0	80.8	ug/L	6.12	48.0
2-Chloronaphthalene	1149630	18.0	18.6	25.0	60.0 - 120	72.0	74.4	ug/L	3.28	24.0
2-Chlorophenol	1149630	17.1	18.3	25.0	23.0 - 134	68.4	73.2	ug/L	6.78	61.0
2-Methylphenol (o-Cresol)	1149630	15.0	16.9	25.0	38.9 - 76.1	60.0	67.6	ug/L	11.9	50.0
2-Nitrophenol	1149630	17.9	19.0	25.0	29.0 - 182	71.6	76.0	ug/L	5.96	55.0
3&4-Methylphenol (m&p-Cresol)	1149630	12.8	15.1	25.0	33.0 - 70.4	51.2	60.4	ug/L	16.5	50.0
3,3'-Dichlorobenzidine	1149630	20.8	21.6	25.0	0.100 - 262	83.2	86.4	ug/L	3.77	108
4,6-Dinitro-2-methylphenol	1149630	14.2	15.8	25.0	0.100 - 181	56.8	63.2	ug/L	10.7	203
4-Bromophenyl phenyl ether	1149630	22.1	23.2	25.0	53.0 - 127	88.4	92.8	ug/L	4.86	43.0
4-Chlorophenyl phenyl ethe	1149630	17.8	19.2	25.0	25.0 - 158	71.2	76.8	ug/L	7.57	61.0
4-Nitrophenol	1149630	7.01	7.86	25.0	0.100 - 132	28.0	31.4	ug/L	11.4	131
Acenaphthene	1149630	18.2	20.0	25.0	47.0 - 145	72.8	80.0	ug/L	9.42	48.0
Acenaphthylene	1149630	19.1	19.8	25.0	33.0 - 145	76.4	79.2	ug/L	3.60	74.0
Aniline	1149630	15.0	15.3	25.0	70.0 - 130	60.0 *	61.2 *	ug/L	1.98	50.0
Anthracene	1149630	17.9	19.7	25.0	27.0 - 133	71.6	78.8	ug/L	9.57	66.0
Benzidine	1149630	1.38	1.33	25.0	0.100 - 36.9	5.52	5.32	ug/L	3.69	90.0
Benzo(a)anthracene	1149630	19.0	21.2	25.0	33.0 - 143	76.0	84.8	ug/L	10.9	53.0
Benzo(a)pyrene	1149630	19.3	20.4	25.0	17.0 - 163	77.2	81.6	ug/L	5.54	72.0
Benzo(b)fluoranthene	1149630	15.8	20.6	25.0	24.0 - 159	63.2	82.4	ug/L	26.4	71.0
Benzo(ghi)perylene	1149630	23.1	22.6	25.0	0.100 - 219	92.4	90.4	ug/L	2.19	97.0
Benzo(k)fluoranthene	1149630	18.0	17.8	25.0	11.0 - 162	72.0	71.2	ug/L	1.12	63.0
Benzyl Butyl phthalate	1149630	18.8	21.6	25.0	0.100 - 152	75.2	86.4	ug/L	13.9	60.0
Bis(2-chloroethoxy)methane	1149630	19.8	21.0	25.0	33.0 - 184	79.2	84.0	ug/L	5.88	54.0
Bis(2-chloroethyl)ether	1149630	19.9	21.4	25.0	12.0 - 158	79.6	85.6	ug/L	7.26	108
Bis(2-chloroisopropyl)ether	1149630	19.7	21.8	25.0	36.0 - 166	78.8	87.2	ug/L	10.1	76.0
Bis(2-ethylhexyl)phthalate	1149630	20.0	23.3	25.0	8.00 - 158	80.0	93.2	ug/L	15.2	82.0
Chrysene (Benzo(a)phenanthrene)	1149630	19.7	21.4	25.0	17.0 - 168	78.8	85.6	ug/L	8.27	87.0
Dibenz(a,h)anthracene	1149630	22.3	22.6	25.0	0.100 - 227	89.2	90.4	ug/L	1.34	126
Diethyl phthalate	1149630	19.9	21.2	25.0	0.100 - 120	79.6	84.8	ug/L	6.33	100
Dimethyl phthalate	1149630	20.4	21.5	25.0	0.100 - 120	81.6	86.0	ug/L	5.25	183
Di-n-butylphthalate	1149630	20.9	24.1	25.0	1.00 - 120	83.6	96.4	ug/L	14.2	47.0
Di-n-octylphthalate	1149630	14.8	16.3	25.0	4.00 - 146	59.2	65.2	ug/L	9.65	69.0
Fluoranthene(Benzo(j,k)fluorene)	1149630	15.7	18.9	25.0	26.0 - 137	62.8	75.6	ug/L	18.5	66.0
Fluorene	1149630	17.5	18.6	25.0	59.0 - 121	70.0	74.4	ug/L	6.09	38.0
Hexachlorobenzene	1149630	23.9	25.7	25.0	0.100 - 152	95.6	103	ug/L	7.45	55.0
Hexachlorobutadiene	1149630	15.6	17.7	25.0	24.0 - 120	62.4	70.8	ug/L	12.6	62.0
Hexachlorocyclopentadiene	1149630	10.7	11.5	25.0	3.97 - 68.7	42.8	46.0	ug/L	7.21	50.0
Hexachloroethane	1149630	14.5	17.8	25.0	40.0 - 120	58.0	71.2	ug/L	20.4	52.0
Indeno(1,2,3-cd)pyrene	1149630	22.0	23.2	25.0	0.100 - 171	88.0	92.8	ug/L	5.31	99.0

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Isophorone	1149630	20.7	22.7	25.0	21.0 - 196	82.8	90.8	ug/L	9.22	93.0
Naphthalene	1149630	16.9	18.7	25.0	21.0 - 133	67.6	74.8	ug/L	10.1	65.0
Nitrobenzene	1149630	20.1	21.4	25.0	35.0 - 180	80.4	85.6	ug/L	6.27	62.0
n-Nitrosodiethylamine	1149630	19.6	20.8	25.0	18.0 - 100	78.4	83.2	ug/L	5.94	50.0
N-Nitrosodimethylamine	1149630	16.8	19.5	25.0	30.2 - 74.9	67.2	78.0 *	ug/L	14.9	50.0
n-Nitroso-di-n-butylamine	1149630	20.8	22.8	25.0	48.4 - 98.5	83.2	91.2	ug/L	9.17	50.0
N-Nitrosodi-n-propylamine	1149630	21.4	23.1	25.0	0.100 - 230	85.6	92.4	ug/L	7.64	87.0
N-Nitrosodiphenylamine (as DPA	1149630	20.1	20.4	25.0	49.3 - 94.2	80.4	81.6	ug/L	1.48	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1149630	17.4	18.0	25.0	22.0 - 147	69.6	72.0	ug/L	3.39	70.0
Pentachlorobenzene	1149630	19.9	20.9	25.0	39.3 - 93.7	79.6	83.6	ug/L	4.90	50.0
Pentachlorophenol	1149630	12.9	14.1	25.0	14.0 - 176	51.6	56.4	ug/L	8.89	86.0
Phenanthrene	1149630	18.2	20.6	25.0	54.0 - 120	72.8	82.4	ug/L	12.4	39.0
Phenol	1149630	7.16	8.06	25.0	5.00 - 120	28.6	32.2	ug/L	11.8	64.0
Pyrene	1149630	20.0	20.9	25.0	52.0 - 120	80.0	83.6	ug/L	4.40	49.0
Pyridine	1149630	10.8	10.8	25.0	11.2 - 50.6	43.2	43.2	ug/L	0	50.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	627854	CCV	45300	100000	ug/L	45.3	10.0 - 150	127079847
2-Fluorophenol-SURR	627854	CCV	52300	100000	ug/L	52.3	10.0 - 150	127079847
4-Terphenyl-d14-SURR	627854	CCV	49500	50000	ug/L	99.0	30.0 - 150	127079847
Nitrobenzene-d5-SURR	627854	CCV	47500	50000	ug/L	95.0	30.0 - 150	127079847
Phenol-d6-SURR	627854	CCV	49300	100000	ug/L	49.3	10.0 - 150	127079847
2,4,6-Tribromophenol	1149630	Blank	52.3	100	ug/L	52.3	10.0 - 150	127079848
2,4,6-Tribromophenol	1149630	LCS	60.5	100	ug/L	60.5	10.0 - 150	127079849
2,4,6-Tribromophenol	1149630	LCS Dup	63.4	100	ug/L	63.4	10.0 - 150	127079850
2-Fluorophenol-SURR	1149630	Blank	41600	100000	ug/L	41.6	10.0 - 150	127079848
2-Fluorophenol-SURR	1149630	LCS	46400	100000	ug/L	46.4	10.0 - 150	127079849
2-Fluorophenol-SURR	1149630	LCS Dup	51700	100000	ug/L	51.7	10.0 - 150	127079850
4-Terphenyl-d14-SURR	1149630	Blank	38300	50000	ug/L	76.6	30.0 - 150	127079848
4-Terphenyl-d14-SURR	1149630	LCS	38200	50000	ug/L	76.4	30.0 - 150	127079849
4-Terphenyl-d14-SURR	1149630	LCS Dup	39600	50000	ug/L	79.2	30.0 - 150	127079850
Nitrobenzene-d5-SURR	1149630	Blank	33100	50000	ug/L	66.2	30.0 - 150	127079848
Nitrobenzene-d5-SURR	1149630	LCS	35700	50000	ug/L	71.4	30.0 - 150	127079849
Nitrobenzene-d5-SURR	1149630	LCS Dup	37900	50000	ug/L	75.8	30.0 - 150	127079850
Phenol-d6-SURR	1149630	Blank	26900	100000	ug/L	26.9	10.0 - 150	127079848
Phenol-d6-SURR	1149630	LCS	30400	100000	ug/L	30.4	10.0 - 150	127079849
Phenol-d6-SURR	1149630	LCS Dup	33600	100000	ug/L	33.6	10.0 - 150	127079850
2,4,6-Tribromophenol	2357077	Unknown	58.4	104	ug/L	56.2	10.0 - 150	127079855
2-Fluorophenol-SURR	2357077	Unknown	51.6	104	ug/L	49.6	10.0 - 150	127079855
4-Terphenyl-d14-SURR	2357077	Unknown	35.5	51.8	ug/L	68.5	30.0 - 150	127079855
Nitrobenzene-d5-SURR	2357077	Unknown	39.7	51.8	ug/L	76.6	30.0 - 150	127079855
Phenol-d6-SURR	2357077	Unknown	34.8	104	ug/L	33.5	10.0 - 150	127079855

Analytical Set 1150275 EPA 632

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1149461	ND	66.1	2500	ug/L	127082290
Diuron	1149461	506	44.4	45.0	ug/L	127082290

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	851	1000	ug/L	85.1	70.0 - 130	127082289
Carbaryl (Sevin)	869	1000	ug/L	86.9	70.0 - 130	127082293
Carbaryl (Sevin)	880	1000	ug/L	88.0	70.0 - 130	127082296
Carbaryl (Sevin)	877	1000	ug/L	87.7	70.0 - 130	127082299
Carbaryl (Sevin)	949	1000	ug/L	94.9	70.0 - 130	127082302
Diuron	750	1000	ug/L	75.0	70.0 - 130	127082289
Diuron	766	1000	ug/L	76.6	70.0 - 130	127082293
Diuron	775	1000	ug/L	77.5	70.0 - 130	127082296
Diuron	752	1000	ug/L	75.2	70.0 - 130	127082299
Diuron	863	1000	ug/L	86.3	70.0 - 130	127082302

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1149461	1100	1110	1000	17.1 - 131	110	111	ug/L	0.905	30.0
Diuron	1149461	474	574	1000	0.100 - 138	47.4	57.4	ug/L	19.1	30.0

Analytical Set 1150300 — ASTM D7065-17

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1149679	ND	5.00	30.0	ug/L	127082430

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	152000	150000	ug/L	101	70.0 - 130	127082429
Nonylphenol	146000	150000	ug/L	97.6	70.0 - 130	127082445

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	626988	CCV	825700	825700	412900	1239000	127082429	626988
Acenaphthene-d10-ISTD	626988	CCV	815200	825700	412900	1239000	127082445	626988
Phenanthrene-d10-ISTD	626988	CCV	1236000	1236000	618200	1854000	127082429	626988
Phenanthrene-d10-ISTD	626988	CCV	1206000	1236000	618200	1854000	127082445	626988
Acenaphthene-d10-ISTD	1149679	Blank	466900	825700	412900	1239000	127082430	1149679
Acenaphthene-d10-ISTD	1149679	LCS	576000	825700	412900	1239000	127082431	1149679
Acenaphthene-d10-ISTD	1149679	LCS Dup	571600	825700	412900	1239000	127082432	1149679
Phenanthrene-d10-ISTD	1149679	Blank	702200	1236000	618200	1854000	127082430	1149679
Phenanthrene-d10-ISTD	1149679	LCS	820000	1236000	618200	1854000	127082431	1149679
Phenanthrene-d10-ISTD	1149679	LCS Dup	860200	1236000	618200	1854000	127082432	1149679
Acenaphthene-d10-ISTD	2357077	Unknown	695800	825700	412900	1239000	127082436	1149679
Phenanthrene-d10-ISTD	2357077	Unknown	1129000	1236000	618200	1854000	127082436	1149679

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	626988	CCV	6.062	6.062	6.002	6.122	127082429	626988
Acenaphthene-d10-ISTD	626988	CCV	6.062	6.062	6.002	6.122	127082445	626988
Phenanthrene-d10-ISTD	626988	CCV	7.242	7.242	7.182	7.302	127082429	626988
Phenanthrene-d10-ISTD	626988	CCV	7.242	7.242	7.182	7.302	127082445	626988
Acenaphthene-d10-ISTD	1149679	Blank	6.056	6.062	6.002	6.122	127082430	1149679
Acenaphthene-d10-ISTD	1149679	LCS	6.056	6.062	6.002	6.122	127082431	1149679
Acenaphthene-d10-ISTD	1149679	LCS Dup	6.062	6.062	6.002	6.122	127082432	1149679
Phenanthrene-d10-ISTD	1149679	Blank	7.242	7.242	7.182	7.302	127082430	1149679
Phenanthrene-d10-ISTD	1149679	LCS	7.242	7.242	7.182	7.302	127082431	1149679
Phenanthrene-d10-ISTD	1149679	LCS Dup	7.242	7.242	7.182	7.302	127082432	1149679
Acenaphthene-d10-ISTD	2357077	Unknown	6.062	6.062	6.002	6.122	127082436	1149679
Phenanthrene-d10-ISTD	2357077	Unknown	7.242	7.242	7.182	7.302	127082436	1149679

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1149679	96.6	96.5	150	56.0 - 112	64.4	64.3	ug/L	0.155	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nonylphenol	2357921	123	131	ND	164	56.0 - 112	69.5	74.0	ug/L	6.30	22.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	626988	CCV	26500	25000	ug/L	106	50.0 - 130	127082429
4-Nonylphenol-SURR	626988	CCV	26200	25000	ug/L	105	50.0 - 130	127082445
4-Nonylphenol-SURR	1149679	Blank	14300	25000	ug/L	57.2	50.0 - 130	127082430
4-Nonylphenol-SURR	1149679	LCS	15400	25000	ug/L	61.6	50.0 - 130	127082431
4-Nonylphenol-SURR	1149679	LCS Dup	15200	25000	ug/L	60.8	50.0 - 130	127082432
4-Nonylphenol-SURR	2357077	Unknown	26.3	31.1	ug/L	84.6	50.0 - 130	127082436

Analytical Set 1150821 — EPA 622

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1149463	ND	0.0001844	0.050	ug/L	127094728
Chlorpyrifos	1149463	ND	0.0000904	0.050	ug/L	127094728
Demeton	1149463	ND	0.0001625	0.050	ug/L	127094728
Diazinon	1149463	ND	0.0001725	0.050	ug/L	127094728
Malathion	1149463	ND	0.0001864	0.050	ug/L	127094728
Parathion, ethyl	1149463	ND	0.0001165	0.050	ug/L	127094728
Parathion, methyl	1149463	ND	0.000198	0.050	ug/L	127094728

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Azinphos-methyl (Guthion)	1030	1000	ug/L	103	37.0 - 150		127094727
Azinphos-methyl (Guthion)	1560	1000	ug/L	156	37.0 - 150	*	127094732
Chlorpyrifos	1030	1000	ug/L	103	48.0 - 150		127094727

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chlorpyrifos	1400	1000	ug/L	140	48.0 - 150	127094732
Demeton	1010	1000	ug/L	101	16.0 - 150	127094727
Demeton	1200	1000	ug/L	120	16.0 - 150	127094732
Diazinon	1020	1000	ug/L	102	50.0 - 150	127094727
Diazinon	1310	1000	ug/L	131	50.0 - 150	127094732
Malathion	1010	1000	ug/L	101	50.0 - 150	127094727
Malathion	1170	1000	ug/L	117	50.0 - 150	127094732
Parathion, ethyl	997	1000	ug/L	99.7	50.0 - 150	127094727
Parathion, ethyl	979	1000	ug/L	97.9	50.0 - 150	127094732
Parathion, methyl	1050	1000	ug/L	105	50.0 - 150	127094727
Parathion, methyl	918	1000	ug/L	91.8	50.0 - 150	127094732

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1149463	0.844	0.583	1.00	0.100 - 167	84.4	58.3	ug/L	36.6 *	30.0
Chlorpyrifos	1149463	0.760	0.585	1.00	0.100 - 128	76.0	58.5	ug/L	26.0	30.0
Demeton	1149463	0.522	0.403	1.00	0.100 - 119	52.2	40.3	ug/L	25.7	30.0
Diazinon	1149463	0.671	0.505	1.00	0.100 - 143	67.1	50.5	ug/L	28.2	30.0
Malathion	1149463	0.636	0.502	1.00	0.100 - 156	63.6	50.2	ug/L	23.6	30.0
Parathion, ethyl	1149463	0.710	0.547	1.00	0.100 - 148	71.0	54.7	ug/L	25.9	30.0
Parathion, methyl	1149463	0.730	0.505	1.00	0.100 - 154	73.0	50.5	ug/L	36.4 *	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1030	1000	ug/L	103	0.100 - 115	127094727
Tributylphosphate		CCV	1250	1000	ug/L	125 *	0.100 - 115	127094732
Triphenylphosphate		CCV	1010	1000	ug/L	101	0.100 - 115	127094727
Triphenylphosphate		CCV	1500	1000	ug/L	150 *	0.100 - 115	127094732
Tributylphosphate	1149463	Blank	622	1000	ug/L	62.2	0.100 - 115	127094728
Tributylphosphate	1149463	LCS	733	1000	ug/L	73.3	0.100 - 115	127094729
Tributylphosphate	1149463	LCS Dup	568	1000	ug/L	56.8	0.100 - 115	127094730
Triphenylphosphate	1149463	Blank	669	1000	ug/L	66.9	0.100 - 115	127094728
Triphenylphosphate	1149463	LCS	759	1000	ug/L	75.9	0.100 - 115	127094729
Triphenylphosphate	1149463	LCS Dup	592	1000	ug/L	59.2	0.100 - 115	127094730

Analytical Set 1151420 EPA 604.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1149479	1.26	0.890	2.50	ug/L	127109542

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	4730	5000	ug/L	94.6	70.0 - 130	127109541
Hexachlorophene	4540	5000	ug/L	90.8	70.0 - 130	127109554
Hexachlorophene	4780	5000	ug/L	95.6	70.0 - 130	127109558
Hexachlorophene	4620	5000	ug/L	92.3	70.0 - 130	127109561

PUB6-R

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Brownsville, TX 78520-

Project
1126302

Printed 12/12/2024

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1149479	54.7	43.3	50.0	25.5 - 145	109	86.6	ug/L	22.9	50.0

Analytical Set 1149490 — SM 4500-P E-2011

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus (as P), total	0.0571	0.060	mg/L	95.2	70.0 - 130	127063195

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus (as P), total	1149490	ND	0.00311	0.030	mg/L	127063194

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus (as P), total	0.302	0.300	mg/L	101	90.0 - 110	127063196
Phosphorus (as P), total	0.309	0.300	mg/L	103	90.0 - 110	127063209
Phosphorus (as P), total	0.305	0.300	mg/L	102	90.0 - 110	127063224

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus (as P), total	1149490	0.315	0.316	0.300	80.0 - 120	105	105	mg/L	0.317	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus (as P), total	2355718	0.256	0.258	0.147	0.150	70.0 - 130	72.7	74.0	mg/L	1.82	20.0
Phosphorus (as P), total	2357088	1.45	1.49	0.423	1.50	70.0 - 130	68.5 *	71.1	mg/L	3.82	20.0

Analytical Set 1149523 — SM 2510 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1149523	0.879			umhos/cm	127064481

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2356911	1.10	1.05	umhos/cm	4.65	20.0
Lab Spec. Conductance at 25 C	2357943	6.90	6.79	umhos/cm	1.61	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	13000	12900	umhos/cm	101	90.0 - 110	127064484

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1149523	1430	1410	umhos/cm	101	90.0 - 110	127064482
Lab Spec. Conductance at 25 C	1149523	101	100	umhos/cm	101	90.0 - 110	127064483
Lab Spec. Conductance at 25 C	1149523	1420	1410	umhos/cm	101	90.0 - 110	127064496
Lab Spec. Conductance at 25 C	1149523	1420	1410	umhos/cm	101	90.0 - 110	127064520

QUALITY CONTROL

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
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Brownsville, TX 78520-

Project
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Printed 12/12/2024

Analytical Set 1149811 — SM 2320 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1149811	ND	1.00	1.00	mg/L	127072321

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	24.4	25.0	mg/L	97.6	90.0 - 110	127072320
Total Alkalinity (as CaCO3)	25.4	25.0	mg/L	102	90.0 - 110	127072334
Total Alkalinity (as CaCO3)	25.9	25.0	mg/L	104	90.0 - 110	127072347

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2356352	124	125	mg/L	0.803	20.0
Total Alkalinity (as CaCO3)	2356853	106	111	mg/L	4.61	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	26.4	25.0	mg/L	106	90.0 - 110	127072319

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Alkalinity (as CaCO3)	2356352	143	125	25.0	mg/L	72.0	70.0 - 130	127072324
Total Alkalinity (as CaCO3)	2356853	139	111	25.0	mg/L	112	70.0 - 130	127072337

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

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

1126302 CoC Print Group 001 of 002

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

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Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

PUB6-R
125

Lab Number 2357077
PO Number P2302002
Phone 956/983-6511

Robindale **WWTP Permit Renewal**

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Non-Potable Water

Sample Collection Start	Sample Collection Stop
Date: 11-19-2024 Time: 2:00 PM	Date: 11-20-2024 Time: 12:00 PM
Sampler Printed Name: Javier Aguirre	Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB	Sampler Affiliation: Brownsville PUB
Sampler Signature:	Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

9 Amber Glass Qt w/Teflon lined lid

NELAC	!D2S	Table D-1/ D-2 Semivolatiles Exp	EPA 625.1 (7.00 days)
NELAC	!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC	!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
	#DMM	Dicofol/Methoxychlor/Mirex	EPA 617 (7.00 days)
	HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)
	T1OC	Table 1 Organochlorine Pesticide	EPA 608.3 (7.00 days)
	T1OP	Table 1 Organophosphorous Pestic	EPA 622 (7.00 days)
	TBTE	Butyltin Expansion	TX 1001 (14.0 days)
NELAC	TYLC	Carbaryl/Diuron	EPA 632 (7.00 days)

2 H2SO4 to pH <2 GlQt w/Tef-lined lid

	NYPE	Nonyl Phenol Expansion	ASTM D7065-11 (14.0 days)

0 Z -- No bottle required

	CKLM	Check Limits	
NELAC **Short Hold**	Cr+3	Trivalent Chromium	Calculation CAS:16065-83-1 (1.00 days)

1 HNO3 to pH <2 Polyethylene 500 mL for Metals

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NELAC		*AgM	Silver, Total	EPA 200.8 5.4 CAS:7440-22-4 (180 days)
NELAC		*AlM	Aluminum, Total	EPA 200.8 5.4 CAS:7429-90-5 (180 days)
NELAC		*AsM	Arsenic, Total	EPA 200.8 5.4 CAS:7440-38-2 (180 days)
NELAC		*BaM	Barium, Total	EPA 200.8 5.4 CAS:7440-39-3 (180 days)
NELAC		*BeM	Beryllium, Total	EPA 200.8 5.4 CAS:7440-41-7 (180 days)
NELAC		*CdM	Cadmium, Total	EPA 200.8 5.4 CAS:7440-43-9 (180 days)
NELAC		*CrM	Chromium, Total	EPA 200.8 5.4 CAS:7440-47-3 (180 days)
NELAC		*CuM	Copper, Total	EPA 200.8 5.4 CAS:7440-50-8 (180 days)
NELAC		*NiM	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)
NELAC		*PbM	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)
NELAC		*SbM	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)
NELAC		*SeM	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)
NELAC		*TlM	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
NELAC		*ZnM	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
		301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)

1 Glass /clean metals w/HCl

NELAC		*HgI	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC		245I	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

1 Polyethylene Quart

NELAC		!FlL	Fluoride	EPA 300.0 2.1 (28.0 days)

1 Cr+6 Preserved 250 Polyethylene

NELAC	Short Hold	Cr+6	Hexavalent Chromium	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Ambient Conditions/Comments

1126302 CoC Print Group 001 of 002

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1425 Robinhood Drive
Brownsville, TX 78520-

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125

Date	Time	Relinquished	Received
11-20-24	13:47	Printed Name: Javier Aguirre Affiliation: Brownsville PUB Signature:	Printed Name: Affiliation: Signature: SPL
11-20-24	17:00	Printed Name: Affiliation: Signature:	Printed Name: Affiliation: Signature:
11/21/24	1030	Printed Name: Affiliation: Signature:	Printed Name: Ashley Vasquez - SPL, Inc. Affiliation: Signature:
		Printed Name: Affiliation: Signature:	Printed Name: Affiliation: Signature:

Sample Received on Ice? Yes / No
Cooler/Sample Secure? Yes / No

If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or 2 - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #00023.

Comments

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Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

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126

Lab Number 23S-7078
PO Number P2302002
Phone 956/983-6511

Robindale **WWTP Permit Renewal**

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Non-Potable Water

Sample Collection Start
Date: 11-19-2024 Time: 2:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Sample Collection Stop
Date: 11-20-2024 Time: 12:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Polyethylene 1/2 gal (White)

NELAC **Short Hold**	**BODc**	BOD Carbonaceous	SM 5210 B-2016 (TCMP Inhibitor) (2.04 days)
NELAC	**TSS**	Total Suspended Solids	SM 2540 D-2015 (7.00 days)

1 H2SO4 to pH <2 250 ml Polyethylene

NELAC	**NHaN**	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
NELAC	**TKN**	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)
NELAC	**TPWB**	Phosphorus (as P), total	SM 4500-P E-2011 CAS:7723-14-0 (28.0 days)

1 Polyethylene Quart

NELAC	**ICIL**	Chloride	EPA 300.0 2.1 (28.0 days)
NELAC **Short Hold**	**IN3L**	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 2.00 days)
NELAC	**IS4L**	Sulfate	EPA 300.0 2.1 (28.0 days)
NELAC	**AlkT**	Total Alkalinity (as CaCO3)	SM 2320 B-2011 (14.0 days)
NELAC	**CONL**	Lab Spec. Conductance at 25 C	SM 2510 B-2011 (28.0 days)
NELAC	**TDS**	Total Dissolved Solids	SM 2540 C-2015 (7.00 days)

Ambient Conditions/Comments

1126302 CoC Print Group 001 of 002

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Date	Time	Relinquished	Received
11-20-24	13:47	Printed Name: Javier Aguirre Affiliation: Brownsville PUB Signature	Printed Name: Affiliation: Signature: SPL
11-20-24	17:30	Printed Name: Affiliation: Signature	Printed Name: FedEx Affiliation: Signature
11/21/24	1030	Printed Name: Affiliation: Signature	Printed Name: Ashley Vasquez - SPL, Inc. Affiliation: Signature
		Printed Name: Affiliation: Signature	Printed Name: Affiliation: Signature

Sample Received on Ice? Yes No
Cooler/Sample Secure? Yes No
If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

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204

Lab Number 235-1084
PO Number P2302002
Phone 956/983-6511

Rebandale WWTP Permit

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start
Date: 11-20-2024 Time: 9:30
Sampler Printed Name: J Mendoza
Sampler Affiliation: SPL
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 On Site Testing

ClCk Field Cl2 Check for CNs

Field Cl2 Check for CNs

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:32
Results Negative Units — Temp. — C Duplicate Negative Units — Temp. — C
R1 — R2 — QC R1 — QC R2 —

NEI AC Short Hold | DO | Dissolved Oxygen Onsite | SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen Onsite

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:40
Results 7.03 Units mg/L Temp. 27.3° C Duplicate 6.95 Units mg/L Temp. 27.6° C

NEI AC Short Hold | pH | pH (Onsite) | SM 4500-H+ B-2011 (0.0104 days)

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pH (Onsite)

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:36

Results 6.99 Units S.U Temp. 27.6 C Duplicate 7.04 Units S.U Temp. 27.8 C

S2Ck Field Sulfide Check for CNa

Field Sulfide Check for CNa

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:33

Results Neg Units — Temp. — C Duplicate Neg Units — Temp. — C
R1 — R2 — QC R1 — QC R2 —

NELAC Short Hold Temp Temperature (onsite) SM 2550 B - 2010 (0.0104 days)

Temperature (onsite)

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:35

Results 27.6° Units °C Duplicate 27.8° Units °C

2 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid

NELAC Short Hold $AAB Acrolein/Acrylonitrile Exp. EPA 624.1 (3.00 days)

2 H2SO4 to pH <2 GlQt w/Tef-lined lid

NELAC HEM Oil and Grease (HEM) EPA 1664B (HEM) (28.0 days)

1 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid

NELAC Phna Phenolics, Total Recoverable EPA 420.4 1 (28.0 days)

3 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)

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Short Hold ID2V Table D-1/D-2 Volatile Expansion EPA 624.1 (3.00 days)

2 **NaOH to pH >12 Polyethylene 250 mL/amber**

NELAC	CNa	Cyanide, total	SM 4500-CN⁻ E-2016 (14.0 days)
NELAC	CN-A	Cyanide - Available/Amenable	SM 4500-CN⁻ G-2016 (14.0 days)
NELAC	CNCl	Cyanide After Chlorination	SM 4500-CN⁻ G-2016 (14.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
		Printed Name	Affiliation	Printed Name	Affiliation
11/20/24	17:30	Signature	SPL	Signature	
		Printed Name	Affiliation	Printed Name Ashley Vasquez - SPL, Inc.	Affiliation
	1930	Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? Yes No
Cooler/Sample Secure? Yes No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000121.

Comments

FedEx Express
Package
US Airbill
8171
1 From
Sender's Name
Company
Address
City
State
ZIP
Phone
2 Your Internal Billing Reference
3 To
Recipient's Name
Company
Address
City
State
ZIP
8171 3103 6180
fedex.com 1800.GoFedEx 1800.463.3339
Recipient's Copy
fedex.com 1800.GoFedEx 1800.463.3339
Other
Signature
Part # 156267-435 FROS EXP 08/26
SHIP DATE: 20NOV24
ACTWGT: 83.75 LB
CAD: 6504237/SSFE2550
DIMS: 24x14x13 IN
BILL THIRD PARTY
ORIGIN ID:HRLA (555) 555-5555
ANA L
2401 VILLAGE DR STE C
BROWNSVILLE TX 78521
UNITED STATES US
TO LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75662
REF
INV
PO
DEPT
(555) 555-5555
342-3514
PRIORITY OVERNIGHT
TRK# 8171 3103 6180
0200
XS GGGA
THU - 21 NOV 10:30A
PRIORITY OVERNIGHT
75662
TX-US SHV
Hal ID30 AMV
Date
Time
Temp: 0.6 0.7 C
Tech
Therm#: 6443 Corr Fact: 0.1 C
644

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PUB6 -R
138

Lab Number 235769
PO Number P2302002
Phone 956/983-6511

Rohandale WWTP Permit Renewal

☐ Hand Delivered by Client to Region or LAB

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory
Matrix: Non-Potable Water

Sample Collection Start
Date: 11-21-24 Time: 9:40
Sampler Printed Name: Jul Mtz
Sampler Affiliation: SPL
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 On Site Testing

NELAC	Cl2O	Cl2 Res.,Total(Onsite)Spec Mid	SM 4500-Cl G-2011

Cl2 Res.,Total(Onsite)Spec Mid

Collected By JMZ Date 11-21-24 Time 9:40 Analyzed By JMZ Date 11-21-24 Time 9:45

Results ND Units mg/L Temp. 26.2° C Duplicate ND Units mg/L Temp. 26.1° C
R1 0.02 R2 0.01 QC R1 0.02 QC R2 0.01

1 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized

Subcontract	ERGV	MPN, E.coli, Coli-18 - WW sub	Subcontract CAS:CCWU

Ambient Conditions/Comments

* Sample sent to Corpus Christi Lab
JMZ

1126302 CoC Print Group 002 of 002

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Brownsville, TX 78520-

PUB6 -R
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Date	Time	Relinquished		Received	
		Printed Name	Affiliation	Printed Name	Affiliation
11-20-24	17:30	Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	
		Printed Name	Affiliation	Printed Name	Affiliation
		Signature		Signature	

Sample Received on Ice? ☐ Yes ☐ No
Cooler/Sample Secure? ☐ Yes ☐ No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or 2 - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

KIL-F-F2050-12
PAGE: 1 of 1
ISSUED: 2/13/2024
EFFECTIVE: 02/15/2024

KIL-F-F2050-12 – CL2 FIELD TRACEABILITY/ REV 12

Test Code: Cl2O ( ) / C2FO ( ) / Cl2o ( ) / Mn Correction Only ( ) Project 1126302
SM 4500-Cl G

Date / Time / Tech 11-20-24 / 9:15 / SM2 Set # CCK 1149003
SD. Clc 1149178

Traceability					
Meter	EQ# 5434		Gel Standards / #	HR ( ) C#	Exp:
Sodium Arsenite $NaAsO_2$ (5g/L)	SW# 627014	Exp: 9/12/25		MR ( ) C#	Exp:
Potassium Iodide KI (30g/L)	C# 577557	Exp: 12/25/25		LR (X) C# 579838	Exp: 1/31/25
Sulfuric Acid H_2SO_4 (1N)	C# 579282	Exp: 7/31/27	DPD Type / #	Total (X) C# 580969	Exp: 2/28/29
Sodium Hydroxide NaOH (1N)	C# 577556	Exp: 10/31/25		Free ( ) C#	Exp:
pH Strips	S# 25840	Exp:	Potassium Permanganate LFB (LCS)	SW# 622866	Exp: 2/8/25

Gel Standards			
Standard	Known Value (mg/L)	Acceptance Range	Reading (mg/L)
1. Blank	0.0	0.0	0.00
2. +/- 0.09	0.22	0.13 - 0.31	0.23
3. +/- 0.10	0.93	0.83 - 1.03	0.94
4. +/- 0.14	1.58	1.44 - 1.72	1.58

Potassium Permanganate / LFB (LCS)		
Known Value (mg/L)	Acceptance Range	Reading (mg/L)
0.84	0.50 - 1.18	0.89

Acceptance Range = (Known Value – Error) to (Known Value + Error)
Example: Known = 0.21 mg/L, Error = 0.09 mg/L, Acceptance Range = 0.12 to 0.30 mg/L
Reading must be within the Acceptance Range

One (1) duplicate is required for every 10 samples analyzed per day. Duplicate Acceptance Limits: **20% RPD**

Duplicates were analyzed on the following client codes: PW136

Corpus Christi Water Department

City of Corpus Christi
Water Utilities Laboratory
13101 Leopard Street
361-826-1200 Fax: 361-242-9131

Analytical Report

Client Info SPL-INC
2600 Dudley Rd.
Kilgore, TX 75662

Phone: **EMAIL:** Kilgore.Projectmanagement@splla

Report# /Lab ID#: AC45234 **Report Date:** 11/22/24
Sample Name: ROBINDALE WWTP
Date Received: 11/21/2024 **Time:** 13:48
Date Sampled: 11/21/2024 **Time:** 09:40

Parameter	Result	Unit	Flag	RL s	Date/Time Analyzed	Method	Analyst	Analysis Comments
E. coli (MPN)	5.2	MPN		1.0	11/21/24 14:12	SM 9223 B - Coli	MONICAS	

Sample Comments:

This analytical report is respectfully submitted by the Water Utilities Laboratory. The enclosed results reflect only the sample(s) identified above. The results have been carefully reviewed and, unless otherwise indicated, meet the NELAC requirements as described by the Water Utilities Lab's QA/QC program. No part of this report shall be reproduced or transmitted in any form or by any means without the written consent of the City of Corpus Christi-Water Utilities Lab.

Respectfully Submitted,

Technical Director (or designee)

1. Quality assurance data for the sample batch which included this sample.
2. Precision (PREC) is the absolute value of the relative percent difference between duplicate results .
3. Recovery (RECOV) is the percent of analyte recovered from a spiked sample.
4. Laboratory Control Sample (LCS) results are expressed as the percent recovery of analyte.
5. Reporting Limit (RL), typically at or above the Limit of Quantitation (LOQ) of the analytical method.
6. Data Qualifiers:

N=Analysis not performed as per client request. **H**=Sample exceeded holding time. **P**=Analysis is from an unpreserved sample. **J**=Value reported is less than the RL but greater than the MDL.
X=MS/MSD recovery or duplicates analysis exceeded the acceptance limit or Standard failed. **LA**=Lab accident **LE**=Lab error **OA**=Outside the scope of the lab's NELAC accreditation.
U=Unsuitable; sample turned turbid after incubation. **T**=Sample below temp requirement; not on ice. **EQ**=Equipment failure. **I**=Information on sample bottle and COC does not match.
S=Slow to filter; sample contains floc and/or large amount of residue on filter. **O**=Analysis performed by an outside NELAC accredited lab; **O^**=Analysis flagged by outside laboratory.
Z=Too many colonies present to provide a result (TNTC). **A**=Value reported is the mean of two or more determinations. **R**=Reagent water contamination suspected. **B**=Sample broken in transit.
NI=Not analyzed due to interferences. **K**=BOD result estimated due to blank exceeding the allowable oxygen depletion. **D**=Sample dilution required for analysis/ quality control.
SC=BOD/CBOD calculated using a seed correction factor not within acceptable range. **QB**=No QC data assigned to sample; sample result not affected.
EL=Oxygen usage is less than 2mg/L for all dilutions analyzed. The reported value is an estimated less than value and is calculated for the dilution containing the greatest concentration of sample.
EG=Less than 1mg/L DO remained for all dilutions analyzed. The reported value is an estimated greater than value and is calculated for the dilution containing the least concentration of sample.
E= The data exceed the upper calibration limit; therefore the concentration is reported as an estimate.

CHAIN OF CUSTODY RECORD

Client Name: SPL LABS
Address: 2600 Dudley Rd.
City: Kilgore State: TX Zip: 75662
Phone: (903) 984 - 0551 Fax: (903) 984 - 5914

Send Email report to: kilgore.projectmanagement.spllabs.com
cc: joel.manjarrez@spllabs.com

PUBG

City of Corpus Christi

Water Utilities Laboratory
13101 Leopard St.
Corpus Christi, TX 78410
Ph: (361) 826-1200
Fax: (361) 242-9131

Sampler: (PLEASE PRINT) Joel Manjarrez

	Sample ID	Lab ID# (Lab Use Only)	Date Sampled	Time Sampled	Grab	Composite	Other	No. of Containers/ Preservative: H_2SO_4	HNO_3	Thio.	None	Matrix: WW Influent	WW Effluent	Water	Other - Specify	Residual Chlorine: Total mg/L ☑	Free mg/L ☐	Analyze For: CBOD	BOD	TSS	TDS	Ammonia-N	TKN	Chloride	Sulfate	Phosphorus	Nitrate	Nitrite	Total Alkalinity	TOC	Fecal Coliform	Total Coliform	Enterococci	E. coli	Other*
1	Rebuilde WWTP Perm	AC45234	11-21-24	940	X					X			X			0.0																		X	
2																																			
3																																			
4																																			
5																																			
6																																			

Relinquished By: Joel Manjarrez	Date: 11-21-24	Time: 10:30	Special Instructions/Comments:
Received By: [illegible]	Date: 11-21-24	Time: 10:50	Other* -
Relinquished By: [illegible]	Date: 11-21-24	Time: 1348	
Received By: VPM2	Date: 11-21-24	Time: 1348	
Relinquished By:	Date:	Time:	***** For Laboratory Use Only *****
Received By:	Date:	Time:	Sample(s) on Ice: (YES) NO — pH Strip Lot/ ID:
Relinquished By:	Date:	Time:	Receiving Temp (°C): 5.3 — pH < 2? YES NO Line(s) #:
Received By:	Date:	Time:	Corrected Temp (°C): 5.3 — Data Flag(s):
			Temp. Device ID: 13

Technical Report 1.1 – Worksheet 6.0

ATTACHMENT M (page 61)

Robindale WWTP – Noncompliance Notification Forms

Water Quality Noncompliance Notification

See back of Form for Guidance for Completion

☐ Unauthorized Discharge ☒ Reportable Effluent Violation ☐ Other

General Information

Entity Name: Brownsville Public Utilities Board **Telephone No (##########):** (956) 983-6100

☒ Permittee ☐ Subscriber **TCEQ Region:** R15 - Harlingen **County:** Cameron ***Permit Number:** WQ0010397005

Noncompliance Summary

Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

On March 28, 2022, BPUB exceeded the E. Coli max permit limit of 399 MPN/100 ml by 816.4 MPN/100 ml via Outfall 001 at Robindale WWTP. A total of 8.591 million gallons were treated and discharged to designated receiving stream. We became aware of the results on March 29, 2022 at 9:23 a. m. Probable cause: Based on normal parameters of TSS/CBOD concentration for Outfall discharge 001 and normal operations for the ultraviolet disinfection system during sample collection, it was determined that sample contamination may have occurred.

Duration: **Start Date:** 3/28/22 **End Date:** 3/28/22 **Or** **Date Expected to be Corrected:** 3/28/22

Time: 06:00 AM **Time:** 06:00 AM

Potential Danger to Human Health and Safety or the Environment:

There was no danger to human health or environment.

Actions Taken

Monitoring Data: Data should be attached or submitted to TCEQ when available.

Field Measurements ☒ Yes ☐ No

Laboratory Samples ☒ Yes ☐ No

Fish Kill(If yes, estimated number killed): ☐ Yes ☒ No

Actions Taken to Mitigate Adverse Effects:

No adverse effects have been noted or reported.

Actions Taken to Correct the Problem and Prevent Recurrence:

Will review sample collection procedures with operators that collect daily samples and will ensure that UV disinfection system continues to work optimally for proper disinfection process.

Verification Information

Information Reported By (Name/Title): Robert Castillo / Chief Operator **Date Reported:** Mar 29, 2022

Signature: R Castillo

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

*** If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.**

Water Quality Noncompliance Notification

See back of Form for Guidance for Completion

☐ Unauthorized Discharge ☒ Reportable Effluent Violation ☐ Other

General Information

Entity Name: Brownsville Public Utilities Board **Telephone No (##########):** 956-983-6100

☒ Permittee ☐ Subscriber **TCEQ Region:** R15 **County:** Cameron ***Permit Number:** WQ0010397003

Noncompliance Summary

Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

On August 17, 2023, the BPUB Robindale WWTP exceeded the ammonia daily max permit limit of 10 mg/L by 14.7 mg/L. A total of 8.247 million gallons were treated and discharged via outfall 001 into designated receiving stream. We became aware of the violation on August 18, 2023 at 14:30. The cause of the violation was due to one of two blowers being down for repairs which lasted more than 12 hours, therefore low dissolved oxygen concentrations affected on ammonia nitrogen reduction.

Duration:

Start Date: 8/17/2023 **End Date:** 8/17/2023 **Or** **Date Expected to be Corrected:**

Time: 10:00 **Time:** 22:00

Potential Danger to Human Health and Safety or the Environment:

No adverse effects have been noted or reported.

Actions Taken

Monitoring Data: Data should be attached or submitted to TCEQ when available.

Field Measurements ☐ Yes ☒ No

Laboratory Samples ☐ Yes ☒ No

Fish Kill(If yes, estimated number killed): ☐ Yes ☒ No

Actions Taken to Mitigate Adverse Effects:

The Robindale WWTP has visually monitor the receiving stream (upstream and downstream). No adverse effects have been noted or reported to this day.

Actions Taken to Correct the Problem and Prevent Recurrence:

The blower has been repaired and is now back in operation. Robindale WWTP is currently going under construction to add two more multistage blowers to add redundancy to the aeration system.

Verification Information

Information Reported By (Name/Title): Victor H. Martinez/WW Operat **Date Reported:** 8/18/2023

Signature:

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

* If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.

DMR Copy of Record

Permit

Permit #:	TX0071340	**Permittee:**	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	**Facility:**	ROBINDALE WWTP
Major:	Yes	**Permittee Address:**	PO BOX 3270 BROWNSVILLE, TX 78520	**Facility Location:**	3208 ROBINDALE ROAD BROWNSVILLE, TX 78526
Permitted Feature:	001 External Outfall	**Discharge:**	001-A DOMESTIC FACILITY - 001		

Report Dates & Status

Monitoring Period:	From 10/01/23 to 10/31/23	**DMR Due Date:**	11/20/23	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Ramiro	**Title:**	Environmental Manager	**Telephone:**	956-983-8511
Last Name:	Capistran				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	7.1					19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.						>=	5.0 MO MIN					19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.35			=	7.41	12 - SU		01/01 - Daily	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	225.0			26 - lb/d			=	3.36	=	5.7	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															
X 00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample	=	99.0			26 - lb/d			=	1.46	=	11.1	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	484.0 DAILY AV			26 - lb/d			<=	4.0 DAILY AV	<=	10.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	6.054	=	9.419	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Permit Req.		Req Mon DAILY AV		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Value NODI															
50050	Flow, in conduit or thru treatment plant	P - See Comments	0	--	Sample			=	10175.0	78 - gal/min									99/99 - Continuous	TM - TOTALZ
					Permit Req.			<=	30206.0 2HR PEAK	78 - gal/min									99/99 - Continuous	TM - TOTALZ
					Value NODI															
50050	Flow, in conduit or thru treatment plant	Y - Effluent Gross (Supplementary)	0	--	Sample	=	7.944			03 - MGD									99/99 - Continuous	TM - TOTALZ
					Permit Req.	<=	14.5 ANNL AVG			03 - MGD									99/99 - Continuous	TM - TOTALZ
					Value NODI															
51041	E. coli, colony forming units [CFU]	1 - Effluent Gross	0	--	Sample								=	1.0	=	2.0	32 - CFU/100mL		01/01 - Daily	GR - GRAB
					Permit Req.								<=	126.0 DAILY AV	<=	399.0 DAILY MX	32 - CFU/100mL		01/01 - Daily	GR - GRAB
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	105.0			26 - lb/d			=	1.57	=	3.03	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct	Yes

Comments

The Nitrogen Ammonia Daily Max limit (10.0 mg/L) was exceeded during the month of October (11.1 mg/L). The TCEQ Regional Office was notified over the phone on 10/17/2023. Note: Result did not exceed the effluent limit by 40%, therefore, no NCN written report was required.

Attachments

No attachments.

Report Last Saved By	
PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	
User:	JOSLECHUGA
Name:	Jose Lechuga
E-Mail:	jlechuga@brownsville-pub.com
Date/Time:	2023-11-15 10:26 (Time Zone: -06:00)
Report Last Signed By	
User:	BPUBRAMIRO
Name:	Ramiro Capistran
E-Mail:	rcapistran@brownsville-pub.com
Date/Time:	2023-11-17 14:00 (Time Zone: -06:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	TX0071340	**Permittee:**	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	**Facility:**	ROBINDALE WWTP
Major:	Yes	**Permittee Address:**	PO BOX 3270 BROWNSVILLE, TX 78520	**Facility Location:**	3208 ROBINDALE ROAD BROWNSVILLE, TX 78526
Permitted Feature:	001 External Outfall	**Discharge:**	001-A DOMESTIC FACILITY - 001		

Report Dates & Status

Monitoring Period:	From 12/01/24 to 12/31/24	**DMR Due Date:**	01/20/25	**Status:**	NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:	Ramiro	**Title:**	Environmental Manager	**Telephone:**	956-983-8511
Last Name:	Capistran				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	6.9					19 - mg/L		01/01 - Daily	GR - Grab
					Permit Req.						>=	5.0 MO MIN					19 - mg/L		01/01 - Daily	GR - Grab
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.72			=	7.64	12 - SU		01/01 - Daily	GR - Grab
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - Grab
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	201.0			26 - lb/d			=	2.67	=	4.4	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															
X 00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample	=	87.0			26 - lb/d			=	1.14	=	12.1	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	484.0 DAILY AV			26 - lb/d			<=	4.0 DAILY AV	<=	10.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	6.675	=	13.493	03 - MGD									99/99 - Continuous	TM - Totalizer
					Permit Req.		Req Mon DAILY AV		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	TM - Totalizer
					Value NODI															
50050	Flow, in conduit or thru treatment plant	P - See Comments	0	--	Sample			=	14775.0	78 - gal/min									99/99 - Continuous	TM - Totalizer
					Permit Req.			<=	30208.0 2HR PEAK	78 - gal/min									99/99 - Continuous	TM - Totalizer
					Value NODI															
50050	Flow, in conduit or thru treatment plant	Y - Effluent Gross (Supplementary)	0	--	Sample	=	8.368			03 - MGD									99/99 - Continuous	TM - Totalizer
					Permit Req.	<=	14.5 ANNL AVG			03 - MGD									99/99 - Continuous	TM - Totalizer
					Value NODI															
51041	E. coli, colony forming units [CFU]	1 - Effluent Gross	0	--	Sample						=	1.3	=	9.7			3Z - CFU/100mL		01/01 - Daily	GR - Grab
					Permit Req.						<=	126.0 DAILY AV	<=	399.0 DAILY MX			3Z - CFU/100mL		01/01 - Daily	GR - Grab
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	--	Sample	=	92.0			26 - lb/d			=	1.23	=	4.13	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

The Ammonia Nitrogen Daily Max limit (10.0 mg/L) was exceeded on 12/2/2024 (12.1 mg/L) and 12/3/2024 (10.4 mg/L). TCEQ Regional Office was notified about the permit exceedance by phone on December 4, 2024. Note: NCN report not required - exceedances are within the 40% deviation rule.

Attachments

No attachments.

Report Last Saved By

PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS

User:	JOSLECHUGA
Name:	Jose Lechuga
E-Mail:	jlechuga@brownsville-pub.com
Date/Time:	2025-01-17 09:09 (Time Zone: -06:00)

Report Last Signed By

User:	BPUBRAMIRO
Name:	Ramiro Capistran
E-Mail:	rcapistran@brownsville-pub.com
Date/Time:	2025-01-17 10:36 (Time Zone: -06:00)

Rainee Trevino

From: Lechuga, Jose <JLechuga@brownsville-pub.com>
Sent: Wednesday, May 28, 2025 11:01 AM
To: Rainee Trevino
Cc: Bennett, Louis; Capistran, Ramiro; Martinez, Victor; Adams, Judy; Gomez, Alberto
Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter - Email #2
Attachments: RWWTP TPDES Tech Report & Attachments rev 5-28-2025.pdf

Importance: High

Dear Rainee,

Attached are the Technical Report and its corresponding attachments.

Thank you for your support throughout our renewal process, it is truly appreciated.

Stay safe and have a wonderful day.

Best regards,

BROWNSVILLE
PUBLIC UTILITIES BOARD

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist
Environmental Compliance
o: (956) 983-6518
c: (956) 466-0579
JLechuga@brownsville-pub.com

@BPUBOfficial

STAGE 2 DROUGHT. CONSERVE WATER

#EVERYDROPCOUNTS

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From: Lechuga, Jose
Sent: Wednesday, May 28, 2025 10:55 AM
To: 'Rainee Trevino' <Rainee.Trevino@tceq.texas.gov>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>; Capistran, Ramiro <RCapistran@brownsville-pub.com>; Martinez, Victor <VMartinez@brownsville-pub.com>; Adams, Judy <JAdams@brownsville-pub.com>; Gomez, Alberto <AGomez@brownsville-pub.com>

Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter
Importance: High

Dear Rainee Trevino,

In response to the Notice of Deficiency (NOD) letter received on May 19, 2025, the Public Utilities Board of the City of Brownsville, Texas hereby submits a revised permit renewal application package for the TPDES Permit No. WQ0010397005 – Robindale Wastewater Treatment Plant. The original documentation, along with additional forms and attachments, will be mailed to your office on May 29, 2025.

The revisions include:

1. **TCEQ form no. 10053**: Updated to the most recent version from October 2024.

2. **USGS Topographic Maps**: Now include the Robindale property boundary label.

3. **Plain Language Summary**: The CN in both summaries has been corrected. Also, the form has been updated to the most recent version from November 2024.

4. **NORI notice**: While mostly accurate, the discharge route may require a minor update to align with the language in the permit application:

- The discharge route is from the plant site to the Cameron County Drainage Ditch no. 1 (instead of "to a Cameron County Drainage Ditch"), thence to San Martin Lake, thence to the Brownsville Ship Channel in segment No. 2494 of the Bay and Estuaries.

5. **NORI Spanish version**: Attached as required in the NOD letter item 5.

Additionally, upon reviewing all other forms, we noticed that a newer version of the Technical Report was issued. In this updated version, several parameters listed in Table 4.0(1) – Toxic Analysis (Page 48) were not included in our original sampling schedule. We have taken immediate action to address this matter, with sampling scheduled to begin today. The results will be provided as soon as they become available.

Please do not hesitate to reach out should any additional information is required.

Stay safe and have a wonderful day.

PS. Due to the size of the files, I will submit the Technical Report and its attachments in a subsequent email.

Best regards,

BROWNSVILLE
PUBLIC UTILITIES BOARD

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist
Environmental Compliance
o: (956) 983-6518
c: (956) 466-0579
JLechuga@brownsville-pub.com

@BPUBOfficial

STAGE 2 DROUGHT. CONSERVE WATER

#EVERYDROPCOUNTS

CONFIDENTIAL NOTICE: The information attached to this e-mail may or may not be confidential and should be treated based on its singular or combined confidential, competitive and sensitive nature. This e-mail and any attached documents are intended to be reviewed only by the individual or individuals named in this communication. As the intended recipient, you are hereby notified that any dissemination or copying of the information contained herein is prohibited.

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From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Monday, May 19, 2025 4:35 PM
To: Lechuga, Jose <JLechuga@brownsville-pub.com>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>
Subject: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter

WARNING - This email originated from outside the organization. Do not click any link or open any attachments unless you are sure this email comes from a known sender and the content is safe. Please report suspicious emails to: SpamAdminsDL@brownsville-pub.com

Good afternoon,

The attached Notice of Deficiency letter sent on 5/19/2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by 6/2/2025.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324

BROWNSVILLE
PUBLIC UTILITIES BOARD

May 28, 2025

Executive Director
Applications Review and Processing Team (MC148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Re: Application to Renew Permit No. WQ0010397005 (EPA ID No. TX0071340)
Public Utilities Board of the City of Brownsville, Texas (CN601658651; RN102180205)

Dear Regulatory Agency,

In response to the Notice of Deficiency letter received on May 19, 2025, the Public Utilities Board of the City of Brownsville, Texas hereby submits a revised permit renewal application package for TPDES Permit No. WQ0010397005. The Robindale Wastewater Treatment Plant is a permitted municipal discharger with a capacity of 14.5 MGD.

Upon reviewing all permit forms, we noticed that a newer version of the Technical Report was issued. In this updated version, several parameters listed in Table 4.0(1) – Toxic Analysis (page 48) were not included in our original sampling schedule. We have taken immediate action to address this matter, and the results will be provided as soon as they become available.

We sincerely apologize for this oversight. Unfortunately, we began working on the application a few weeks before the October revisions and scheduled the testing events around the same time. As a result, we inadvertently missed the updates, including the new testing requirements.

Please do not hesitate to contact us should you require any additional information.

Sincerely,

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist

Enclosure

cc: Marilyn Gilbert, General Manager and CEO
Albert Gomez, Jr., PE, REM, Director of Environmental Services
Judy Adams, Division Manager
Louis Bennett, Wastewater Treatment Manager
File

Brownsville Public Utilities Board
1425 Robinhood Drive
P.O. Box 3270
Brownsville, TX 78521

www.brownsville-pub.com
(956) 983-6100
Fax: (956) 982-6289

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT RENEWAL APPLICATION

ROBINDALE WASTEWATER TREATMENT PLANT

PERMIT No. WQ0010397005

EPA ID No. TX0071340

BROWNSVILLE
PUBLIC UTILITIES BOARD

ORIGINAL

Prepared By

Environmental Services

May 2025

Supplemental Permit Information Form

(Separate document with attachments as required by the TCEQ Memorandum of Agreement with EPA)

Robindale Wastewater Treatment Plant Permit No. WQ0010397005;
EPA ID No. TX0071340

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Public Utilities Board of the City of Brownsville, Texas

   Permit No. WQ00 10397005 EPA ID No. TX 0071340

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

   3208 Robindale Rd., Brownsville, Cameron

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: Louis Bennett

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

Title: Wastewater Treatment Manager

Mailing Address: 3208 Robindale Rd.

City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6518 Ext.: NA Fax No.: (956) 574-6114

E-mail Address: LBennett@brownsville-pub.com

2. List the county in which the facility is located: Cameron
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.

From the Robindale Wastewater Treatment Plant to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay 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

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

NA

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

NA

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

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

NA

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

NA

Administrative Report 1.0

ATTACHMENT G1 (SPIF page 2)

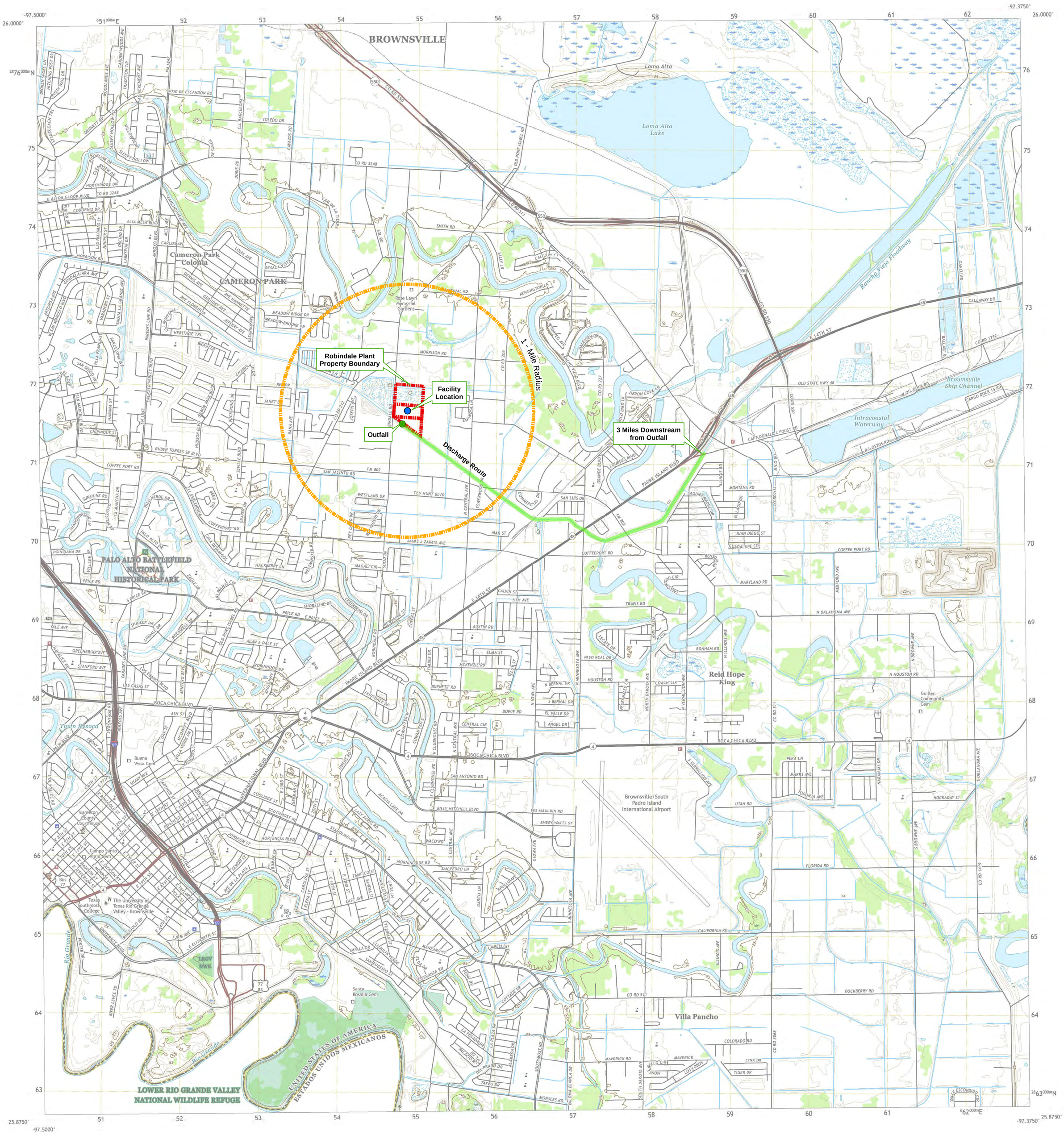
7.5 Quadrangle Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, December 2016 - January 2017
Roads	U.S. Census Bureau, 2015
Names	GNIS, 1979 - 2021
Hydrography	National Hydrography Dataset, 2001 - 2018
Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

MN
GN
3°35'
64 MILS
0°41'
12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
	6	7

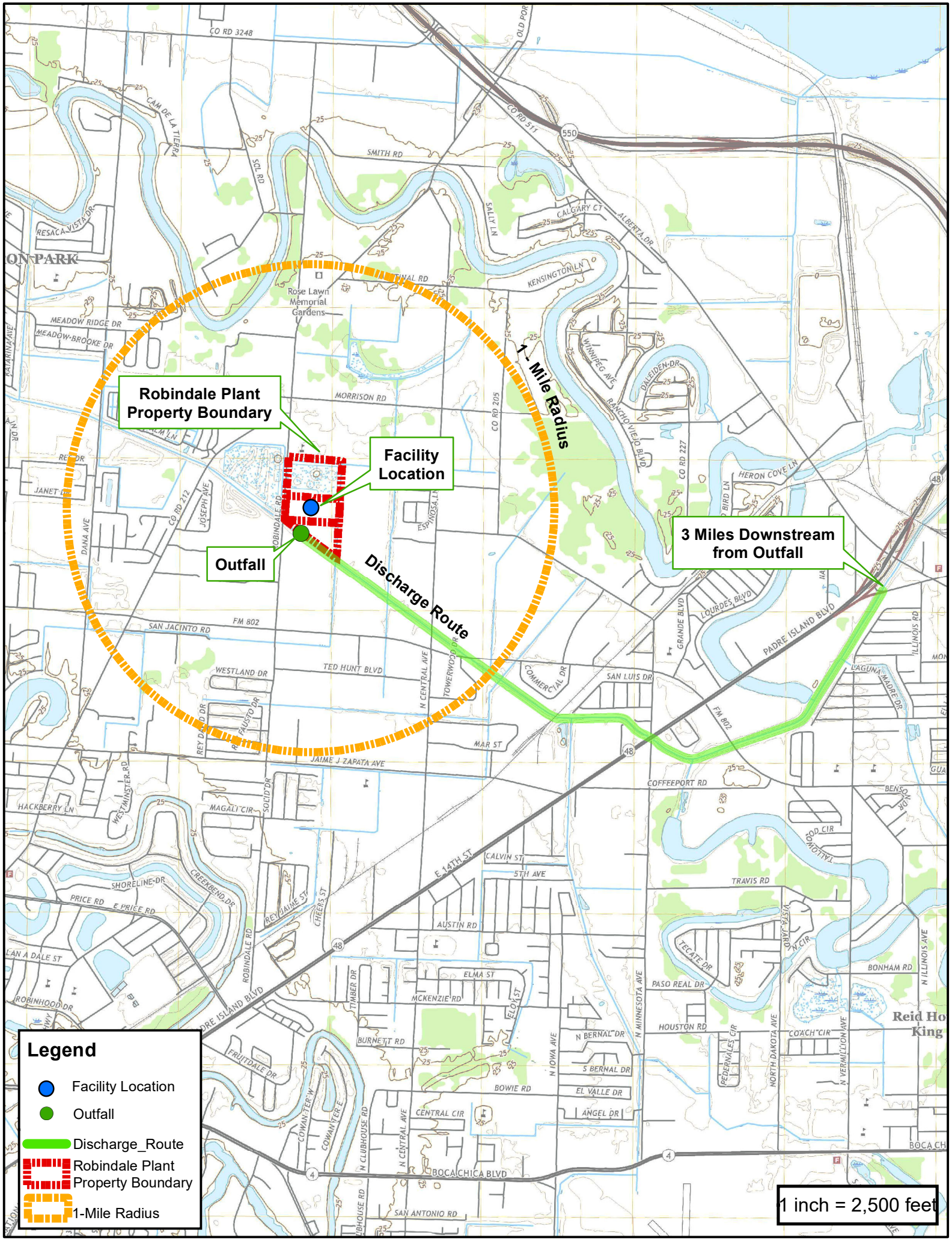
1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143


Robindale Plant Property Boundary
Facility Location
Outfall
1 - Mile Radius
Discharge Route
3 Miles Downstream from Outfall
Legend
Facility Location
Outfall
Discharge_Route
Robindale Plant Property Boundary
1-Mile Radius
1 inch = 2,500 feet

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Public Utilities Board of the City of Brownsville, Texas

PERMIT NUMBER (If new, leave blank): WQ0010397005

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: NA

Check/Money Order Amount: NA

Name Printed on Check: NA

EPAY — Voucher Number: 765734 & 765735

Copy of Payment Voucher enclosed? Yes ☒ ATTACHMENT A

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: NA

f. **For existing permits**:

Permit Number: WQ00 10397005

EPA I.D. (TPDES only): TX 0071340

Expiration Date: December 18, 2025

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

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

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

Public Utilities Board of the City of Brownsville, Texas

(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: 601658651

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

Prefix: Mr. Last Name, First Name: Gomez Jr., Albert

Title: Director of Environmental Services Credential: P.E., REM

B. Co-applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

NA

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

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

CN: NA

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: NA Last Name, First Name: NA

Title: NA Credential: NA

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

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 B

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Bennett, Louis

Title: Wastewater Treatment Manager Credential: NA

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: 3208 Robindale Rd. City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6505 E-mail Address: LBennett@brownsville-pub.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Gomez Jr., Albert

Title: Director of Environmental Services Credential: P.E., REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6251 E-mail Address: AGomez@brownsville-pub.com

B. Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Capistran Jr., Ramiro

Title: Environmental Manager Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: RCapistran@brownsville-pub.com

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

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

Prefix: Mr. Last Name, First Name: Capistran Jr., Ramiro

Title: Environmental Manager Credential: REM

Organization Name: Public Utilities Board

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: RCapistran@brownsville-pub.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Lechuga, Jose

Title: Lead Environmental Compliance Specialist Credential: REM

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6518 E-mail Address: JLechuga@brownsville-pub.com

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: Brownsville Public Library – Main Branch

Location within the building: Front Desk

Physical Address of Building: 2600 Central Blvd.

City: Brownsville County: Cameron

Contact (Last Name, First Name): Front Desk

Phone No.: (956) 548-1055 Ext.: NA

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: ATTACHMENT C

G. Public Involvement Plan Form

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

Attachment: NA

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102180205

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):

Robindale Wastewater Treatment Plant

C. Owner of treatment facility: Public Utilities Board of the City of Brownsville, Texas

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

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

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: Public Utilities Board of the City of Brownsville, Texas

Mailing Address: P.O. Box 3270 City, State, Zip Code: Brownsville, Texas, 78523

Phone No.: (956) 983-6511 E-mail Address: RCapistran@brownsville-pub.com

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: NA

E. Owner of effluent disposal site:

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: NA

Mailing Address: NA City, State, Zip Code: NA

Phone No.: NA E-mail Address: NA

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: NA

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

Prefix: NA Last Name, First Name: NA

Title: NA Credential: NA

Organization Name: NA

Mailing Address: NA City, State, Zip Code: NA

Phone No.: NA E-mail Address: NA

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: NA

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

NA

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:

NA

City nearest the outfall(s): Brownsville

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

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: NA

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: Cameron

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

NA

B. City nearest the disposal site: NA

C. County in which the disposal site is located: NA

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

NA

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

NA

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: NA

Amount past due: NA

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: NA

Amount past due: NA

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: USGS Map – ATTACHMENT D

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010397005

Applicant: Public Utilities Board of the City of Brownsville, Texas

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): Albert Gomez Jr., P.E., REM

Signatory title: Director of Environmental Services

Signature: Albert Gomez Jr. Date: 5/20/25

(Use blue ink)

Subscribed and Sworn to before me by the said Albert Gomez Jr.

on this 20th day of May, 20 25.

My commission expires on the 5th day of April, 20 28.

Nelda G. Lopez

Notary Public

NELDA G. LOPEZ
Notary Public, State of Texas
Comm. Expires 04-05-2028
Notary ID 2851140

[SEAL]

Cameron

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

D. Provide the source of the landowners' names and mailing addresses: NA

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

☐ Yes ☐ No

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

NA

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☒ (NA) No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: ATTACHMENT G

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): NA

Driver's License or State Identification Number: NA

Date of Birth: NA

Mailing Address: NA

City, State, and Zip Code: NA

Phone Number: NA Fax Number: NA

E-mail Address: NA

CN: NA

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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)

Summary of Application (in Plain Language) ☒ Yes

Administrative Report 1.0

ATTACHMENT A (page 2)

Application Fee – Payment Voucher & Receipt

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	765734
Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
Voucher Amount:	$2,000.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL
ePay Actor:	JOSE LECHUGA

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

Site Information

Site Name:	BROWNSVILLE PUB ROBINDALE WASTEWATER TREATMENT PLANT
Site Address:	3208 ROBINDALE ROAD, BROWNSVILLE, TX 78526
Site Location:	THE ROBINDALE WWTP IS LOCATED AT 3208 ROBINDALE ROAD IN BROWNSVILLE TEXAS

Customer Information

Customer Name:	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
Customer Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
State Tax ID:	32054740520

Other Information

Program Area ID:	0010397005
Comments:	TPDES Permit Renewal Application - WQ0010397005

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	765735
Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	JOSE LECHUGA

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

TCEQ ePay Receipt

Transaction Information

Trace Number:	582EA000667167
Date:	05/07/2025 04:29 PM
Payment Method:	CC - Authorization 0000027665
ePay Actor:	JOSE LECHUGA
TCEQ Amount:	$2,015.00
Texas.gov Price::	$2,060.59*

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

Payment Contact Information

Name:	NELDA LOPEZ
Company:	BROWNSVILLE PUBLIC UTILITIES BOARD
Address:	1425 ROBINHOOD DR, BROWNSVILLE, TX 78521
Phone:	956-683-6217

Cart Items

Voucher	Fee Description	AR Number	Amount
765734	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		$2,000.00
765735	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	**$2,015.00**

Administrative Report 1.0

ATTACHMENT B (page 4)

TCEQ Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 601658651		RN 102180205

SECTION II: Customer Information

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

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

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

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

Public Utilities Board of the City of Brownsville, Texas

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
0022602101	32054740520	74-2137823	60-634-7037

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

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

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address:								
	P.O. Box 3270							
	City	Brownsville	State	TX	ZIP	78523	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	JLechuga@brownsville-pub.com

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

(956) 983-6518		(956) 983-6260

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.)*

Robindale Wastewater Treatment Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	3208 Robindale Rd.							
	City	Brownsville	**State**	TX	**ZIP**	78526	**ZIP + 4**	
24. County	Cameron							

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

25. Description to Physical Location:	NA							
26. Nearest City				**State**		**Nearest ZIP Code**		
Brownsville				TX		78526		

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:	25°57'20.693"		**28. Longitude (W) In Decimal:**	-97°27'16.463"	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
25	57	20.693	-97	27	16.463

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221310	

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

Domestic Wastewater Treatment Facility

34. Mailing Address:	**P.O. Box 3270**							
	City	**Brownsville**	**State**	**TX**	**ZIP**	**78523**	**ZIP + 4**	
35. E-Mail Address:	**JLechuga@brownsville-pub.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(956) 983-6518		**(956) 983-6260**

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☒ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
WQ0010397005	TXR05AL36			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010397005			

SECTION IV: Preparer Information

40. Name:	Jose E. Lechuga	41. Title:	Lead Env. Compliance Specialist

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(956) 983-6518		(956) 983-6260	JLechuga@brownsville-pub.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Public Utilities Board of the City of Brownsville, Texas	Job Title:	Director of Environmental Services
Name *(In Print)*:	Albert Gomez Jr., P.E., REM	Phone:	(956) 983- 6251
Signature:	Albert Gomez Jr.	Date:	5/20/25

Administrative Report 1.0

ATTACHMENT C (page 7)

Plain Language Summary Form

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The Public Utilities Board of the City of Brownsville, Texas (CN601658651) operates the Robindale Wastewater Treatment Plant (RN102180205), a domestic wastewater treatment facility authorized to treat and discharge up to 14.5 million of gallons per day (MGD) under the TPDES permit no. WQ0010397005. The facility is located at 3208 Robindale Rd., in Brownsville, Cameron County, Texas 78526. The Public Utilities Board of the City of Brownsville, Texas is herein applying to renew the Texas Pollutant Discharge Elimination System (TPDES) permit to authorize the discharge of treated wastewater at a volume not to exceed 14.5 MGD. The discharge route is from the plant site to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay and Estuaries.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand (5-day), Total Suspended Solids, Ammonia Nitrogen and Escherichia coli (E-coli).

Domestic wastewater is treated by on-site screening and grit removal, then by utilizing a Modified Ludzack-Ettinger (MLE) process (anoxic and aerobic with internal nitrate cycle) of activated sludge, turbo blowers with auto dissolved oxygen control, secondary settling, ultra-violet system for disinfection, and effluent cascade aeration system prior to effluent discharge.

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

AGUAS RESIDUALES DOMESTICAS **/AGUAS PLUVIALES**

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

El Public Utilities Board de la Ciudad de Brownsville, Texas (CN601658651) opera la Planta Robindale de Tratamiento de Drenaje (RN102180205), una planta tratadora de drenaje domestica que está autorizada para tratar y descargar hasta 14.5 millones de galones por día (MGD) bajo el permiso TPDES no. WQ0010397005. La instalación está ubicada en el 3208 Robindale Rd., en Brownsville, Condado de Cameron, Texas 78526. El Public Utilities Board de la Ciudad de Brownsville, Texas por medio de la presente está aplicando para renovar el permiso de Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de agua de drenaje tratada en un volumen no excedente a los 14.5 MGD. La ruta de descarga es del sitio de la planta a el Canal de Drenaje no. 1 del Condado de Cameron; de allí a el Lago San Martin; de allí a el Canal de Navegación de Brownsville en el segmento 2494 de la Bahia y Estuarios.

Se espera que las descargas de la instalación contengan Demanda Bioquímica de Oxígeno de Carbono (CBOD), Solidos Suspendidos Totales, Nitrógeno de Amoniaco y Escherichia coli (E-coli). EL agua de drenaje domestico. está tratado por filtración en sitio, eliminación de arenillas y lodos, proceso Modificado Ludzack-Ettinger (MLE) (anóxico y aeróbico con ciclos internos de nitrato) de lodos activados, turbo-sopladores con control automático para oxígeno disuelto, sedimentación secundaria, sistema ultravioleta para desinfección, y sistema de aireación de cascada previo a la descarga del efluente.

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.
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, or 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., stormwater, process wastewater, once through cooling water, etc.)
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.

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Example 2: Domestic Wastewater TPDES Renewal application

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.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: Domestic Wastewater TPDES New Application

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.

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 4: Domestic Wastewater TLAP Renewal application

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.

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

Administrative Report 1.0

ATTACHMENT D (page 10)

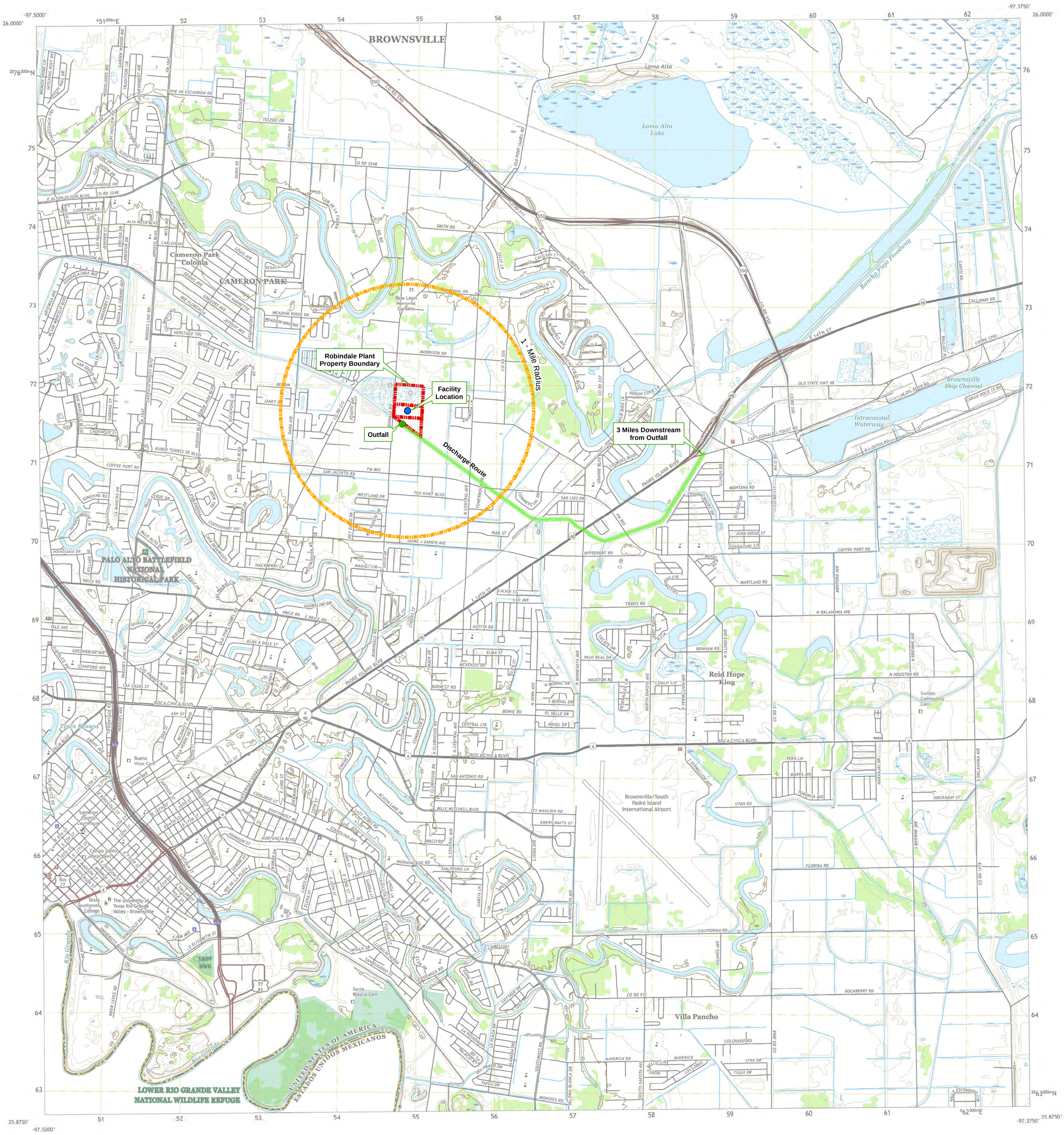
USGS Topographic Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP, December 2016 - January 2017
Roads	U.S. Census Bureau, 2015
Names	GNIS, 1979 - 2021
Hydrography	National Hydrography Dataset, 2001 - 2018
Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

MN
GN
3°35'
64 MILS
0°41'
12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

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4		5
	6	7

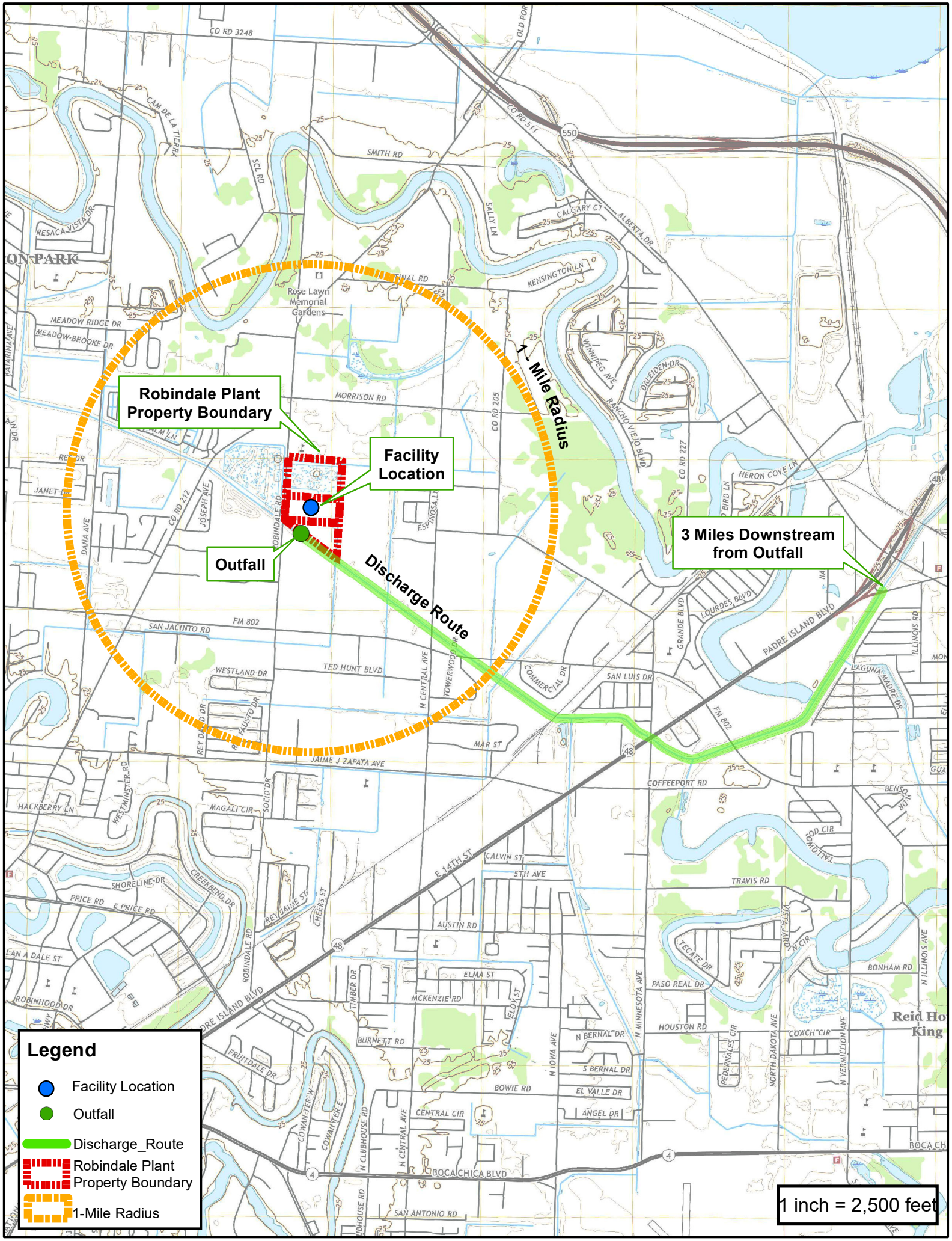
1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

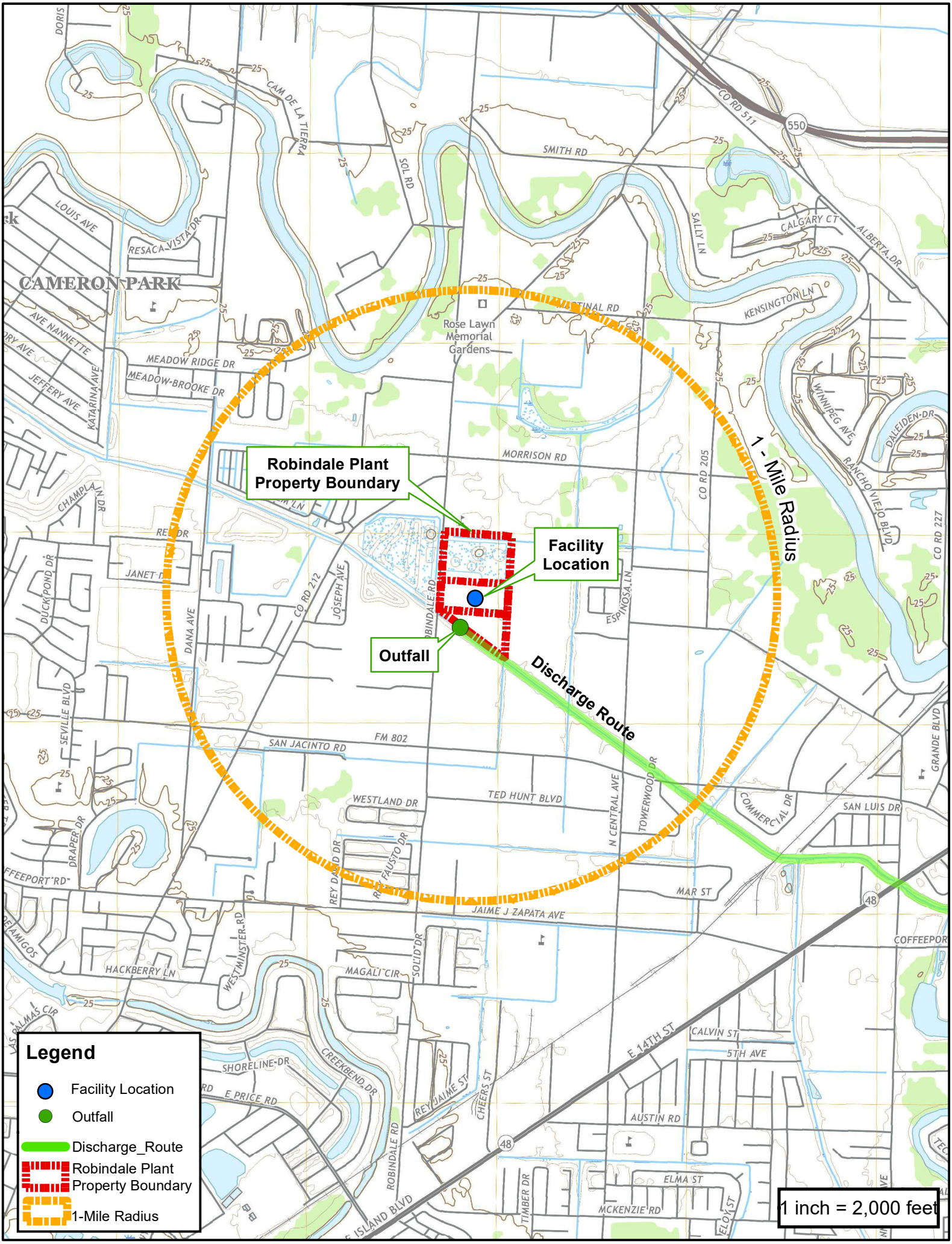
ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143


Robindale Plant Property Boundary
Facility Location
Outfall
1 - Mile Radius
Discharge Route
3 Miles Downstream from Outfall
Legend
Facility Location
Outfall
Discharge_Route
Robindale Plant Property Boundary
1-Mile Radius
1 inch = 2,500 feet


Robindale Plant Property Boundary
Facility Location
Outfall
Discharge Route
1 - Mile Radius
Legend
Facility Location
Outfall
Discharge_Route
Robindale Plant Property Boundary
1-Mile Radius
1 inch = 2,000 feet
CAMERON PARK
Rose Lawn Memorial Gardens
SMITH RD
MORRISON RD
FM 802
SAN JACINTO RD
WESTLAND DR
TED HUNT BLVD
JAIME J ZAPATA AVE
E 14TH ST
AUSTIN RD
ELMA ST
MCKENZIE RD
CALVIN ST
5TH AVE
SAN LUIS DR
COFFEEPORT
CO RD 205
CO RD 212
CO RD 227
CO RD 511
ROBINDALE RD
N CENTRAL AVE
TOWERWOOD DR
COMMERCIAL DR
GRANDE BLVD
SEVILLE BLVD
DANA AVE
JOSEPH AVE
DUCK POND DR
DRAPER DR
MAR ST
HACKBERRY LN
MAGALI CIR
SOLID DR
WESTMINSTER RD
SHORELINE DR
CREEKBEND DR
E PRICE RD
REY JAIME ST
CHEERS ST
TIMBER DR
ELOY ST
E ISLAND BLVD
CAM DE LA TIERRA
SOL RD
SALLY LN
CALGARY CT
ALBERTA DR
KENSINGTON LN
WINNIPEG AVE
DALEIDEN DR
RANCHO VIEJO BLVD
ESPINOSA LN
LOUIS AVE
RESACA VISTA DR
AVE NANNETTE
JEFFERY AVE
KATARINA AVE
MEADOW RIDGE DR
MEADOW-BROOKE DR
CHAMPLAIN DR
JANET LN
550
48

Administrative Report (page 11), Core Data Form (page 3) and Technical Report (page 20)

ATTACHMENT E

Signatory Resolution No. 2013-0812

RESOLUTION No. 2013-0812 (IC-18)

A RESOLUTION OF THE PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS AUTHORIZING THE DIRECTOR OF ENVIRONMENTAL SERVICES AND THE ENVIRONMENTAL MANAGER TO EXECUTE DOCUMENTS DEALING WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND THE U.S. ENVIRONMENTAL PROTECTION AGENCY

WHEREAS, the Public Utilities Board of the City of Brownsville, Texas ("BPUB") is required to comply with certain regulations of the Texas Commission on Environmental Quality ("TCEQ") and the U.S. Environmental Protection Agency ("EPA"); and

WHEREAS, it is necessary for BPUB to execute documents and/or submit reports of a routine nature and to communicate with the TCEQ and EPA from time to time on routine and non-routine matters on behalf of BPUB; and

WHEREAS, it is in the interest of BPUB that the Director of Environmental Services, a position presently occupied by Mr. Alberto Gomez, Jr., should serve as BPUB's duly authorized representative to execute and/or submit such documents and reports and engage in such communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations; and

WHEREAS, it is in the interest of BPUB that the Environmental Manager, a position presently occupied by Mr. Ramiro Capistran, Jr., serve as BPUB's alternate representative who is authorized to execute and/or submit such documents and reports and engage in such communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations when the Director of Environmental Services is absent or unavailable, whether on a temporary or permanent basis; now, therefore,

BE IT RESOLVED by the Public Utilities Board of the City of Brownsville, Texas:

1. That the Director of Environmental Services is named as BPUB's duly authorized representative to execute documents and/or submit reports of a routine nature and to engage in communications as may reasonably be required in order for BPUB to timely comply with TCEQ and EPA regulations.

2. That, in the absence or unavailability of the Director of Environmental Services, the Environmental Manager is authorized to act as BPUB's duly authorized representative.

3. That this Resolution shall take effect immediately upon its passage.

PASSED and APPROVED this 12th day of August 2013.

The City of Brownsville, Texas acting by and through the Public Utilities Board of the City of Brownsville, Texas

Ossar D. Garcia, Vice Chair

219707

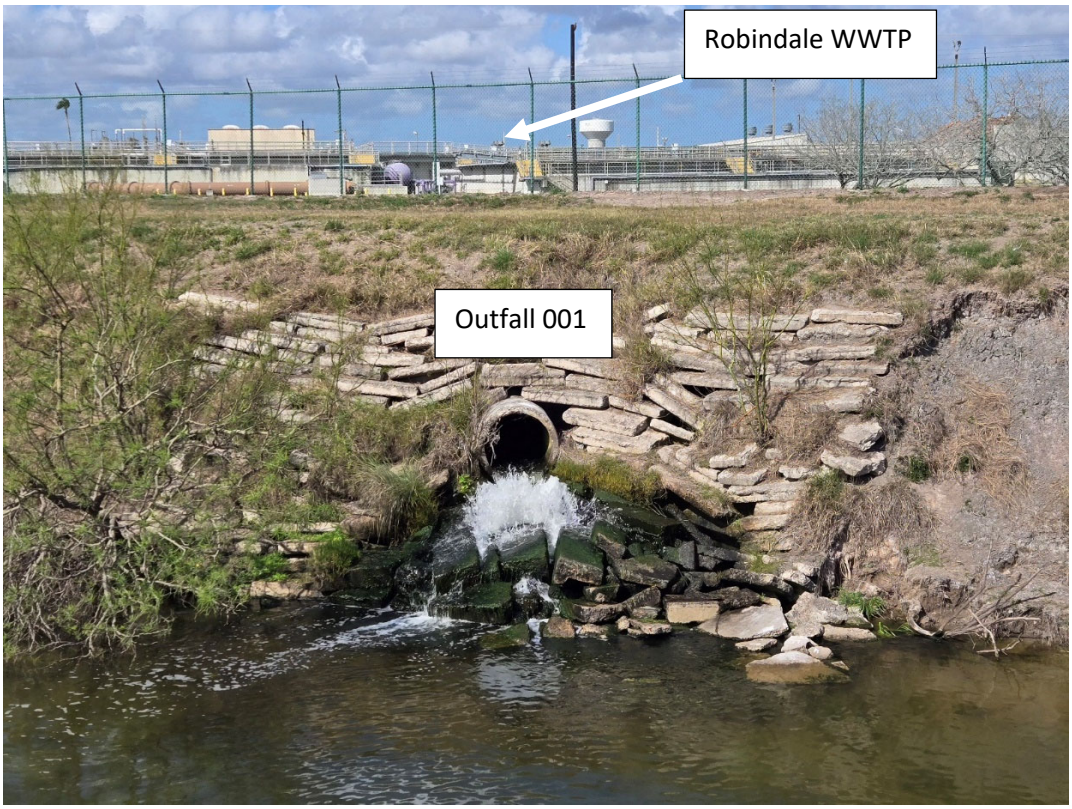
Administrative Report 1.0

ATTACHMENT F (page 13)

Effluent Outfall Photographs

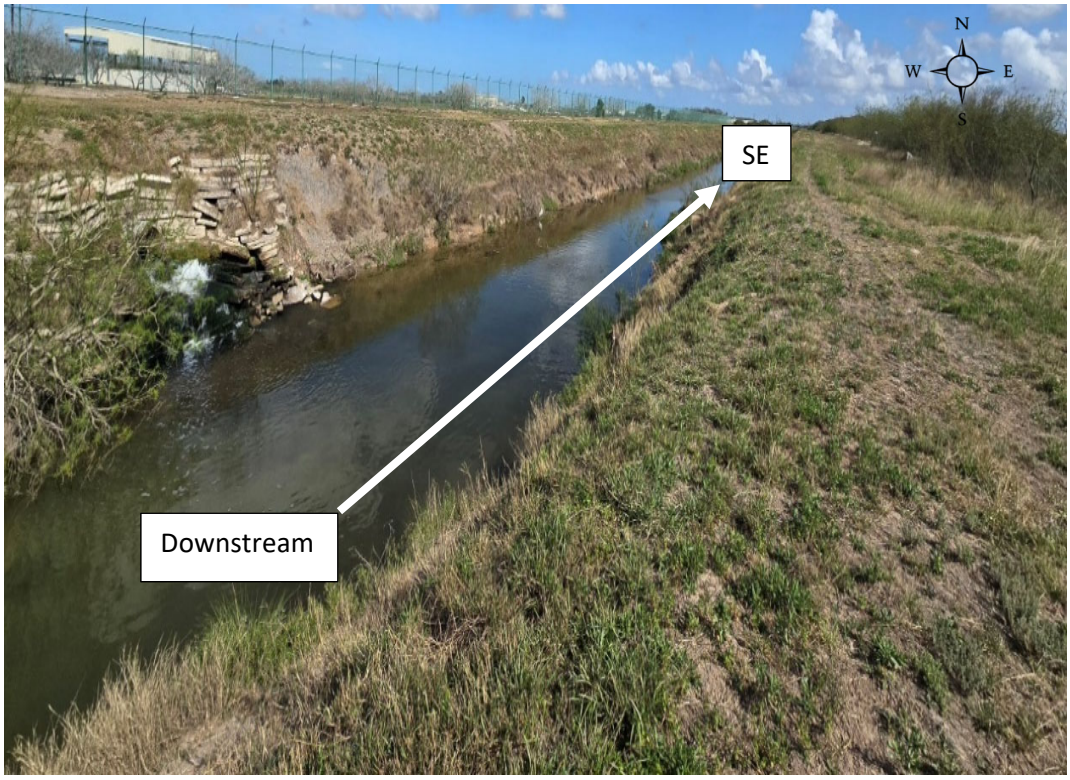
Section 2. Original Photographs

Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent disposal site.





Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent downstream.



Robindale Wastewater Treatment Plant Outfall 001 – Existing effluent upstream.



Administrative Report 1.0

ATTACHMENT G (page 14)

SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Public Utilities Board of the City of Brownsville, Texas

   Permit No. WQ00 10397005 EPA ID No. TX 0071340

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

   3208 Robindale Rd., Brownsville, Cameron

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: Louis Bennett

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

Title: Wastewater Treatment Manager

Mailing Address: 3208 Robindale Rd.

City, State, Zip Code: Brownsville, Texas, 78526

Phone No.: (956) 983-6518 Ext.: NA Fax No.: (956) 574-6114

E-mail Address: LBennett@brownsville-pub.com

2. List the county in which the facility is located: Cameron
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.

From the Robindale Wastewater Treatment Plant to the Cameron County Drainage Ditch No. 1; thence to San Martin Lake; thence to the Brownsville Ship Channel in segment No. 2494 of the Bay 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

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

NA

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

NA

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

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

NA

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

NA

Administrative Report 1.0

ATTACHMENT G1 (SPIF page 2)

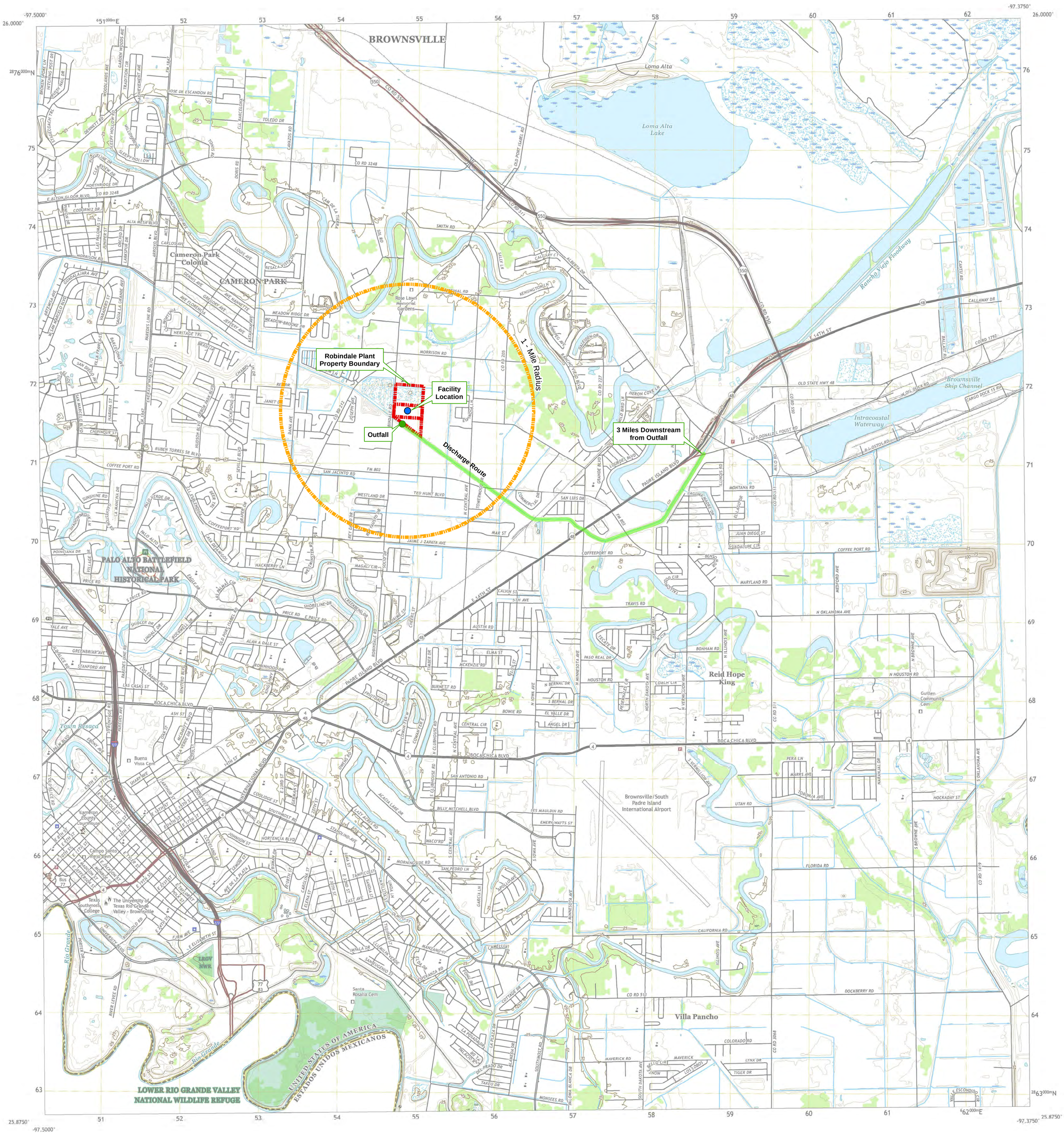
7.5 Quadrangle Map(s)

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

EAST BROWNSVILLE QUADRANGLE
TEXAS - CAMERON COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
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1 000-meter grid:Universal Transverse Mercator, Zone 14R

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Names	GNIS, 1979 - 2021
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Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Wetlands	FWS National Wetlands Inventory Not Available

MN
GN
3°35'
64 MILS
0°41'
12 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
	6	7

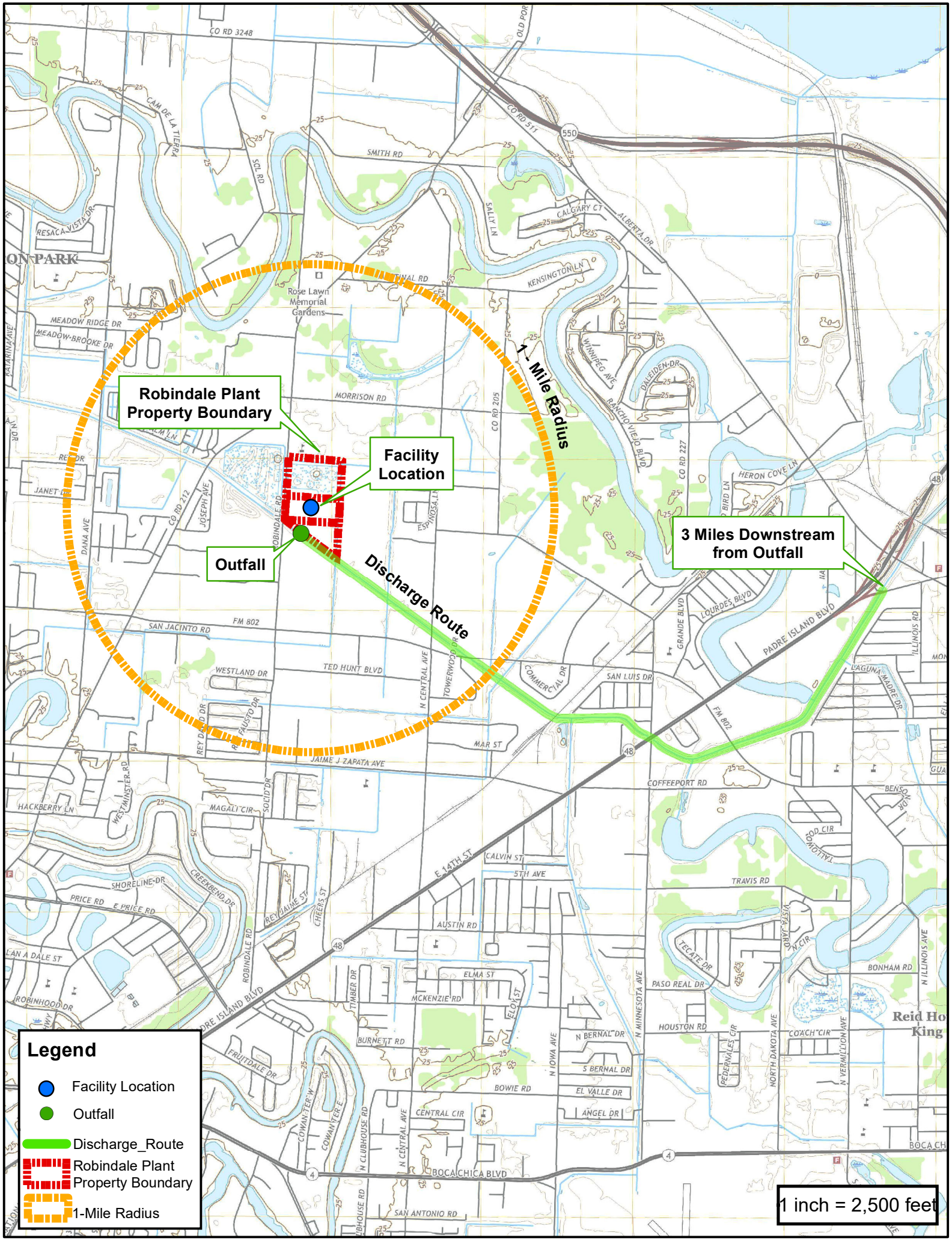
1 Olmito
2 Los Fresnos
3 Laguna Vista
4 West Brownsville
5 Palmito Hill
6 Southmost
7 Southmost OE E

ADJOINING QUADRANGLES

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

EAST BROWNSVILLE, TX, TAM
2022

NSN 7643018395981
NGA REF NO. USGSX24K133143


Robindale Plant Property Boundary
Facility Location
Outfall
1 - Mile Radius
Discharge Route
3 Miles Downstream from Outfall
Legend
Facility Location
Outfall
Discharge_Route
Robindale Plant Property Boundary
1-Mile Radius
1 inch = 2,500 feet

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

Section 1. Permitted or Proposed Flows (Instructions Page 42)

A. Existing/Interim I Phase

Design Flow (MGD): 14.5

2-Hr Peak Flow (MGD): 43.5

Estimated construction start date: NA

Estimated waste disposal start date: NA

B. Interim II Phase

Design Flow (MGD): NA

2-Hr Peak Flow (MGD): NA

Estimated construction start date: NA

Estimated waste disposal start date: NA

C. Final Phase

Design Flow (MGD): 14.5

2-Hr Peak Flow (MGD): 43.5

Estimated construction start date: NA

Estimated waste disposal start date: NA

D. Current Operating Phase

Provide the startup date of the facility: 1995

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

The Robindale Wastewater Treatment Plant (WWTP) is designed to treat 14.5 MGD. The plant treatment processes consist of:

*Preliminary treatment: Raw wastewater/influent is pumped from the collection system to the site through a 24-inch, 20-inch, and 12-inch force main. Then, influent flows into two screening channels, with 6 mm perforated screens, each sized for 100% of the peak flow. A third channel, with isolation gates and a 12 mm coarse bar screen, is also provided. Each screen has its own dedicated washer/compactor system that discharges directly into the screenings disposal container. All channels are covered and the air is collected and drawn to the odor control system. Flow exits the screen channels an enters a grit removal basin with a Headcell grit separator system. This grit basin is connected to a pair of grit centrifugal pumps which pumps the grit to a cyclone/classifier for grit removal before it is deposited in disposal containers. The flow exits the grit basins and is split between the four aeration basins (trains).

*Secondary treatment: Screened and degritted raw wastewater flow into secondary treatment trains. The aeration basins design features four process bioreactors configured in a Modified Ludzack-Ettinger process (MLE) flow scheme to provide four anoxic zones. This process uses the carbon present in the influent to drive the denitrification process. The anoxic selector improves the sludge settling in the final clarifier, reduces the oxygen demand on the nitrification portion of the process, recovers a portion of the alkalinity consumed, and by reducing the nitrate-nitrogen in the mixed liquor, also reduces the opportunity for denitrification in the clarifiers which it can lead to floating sludge. The mixed liquor flows from the four activated sludge process trains to a new mixed-liquor pump station and then on to three circular final clarifiers (146-foot-diameter), which separate the treated liquid from the solids. The return activated sludge (RAS) and waste activated sludge (WAS) are collected with the RAS ahead of secondary treatment, and the WAS is directed to thickening prior to digestion. The secondary effluent flows from the clarifiers through a parshall flume for final measurements and then onto disinfection. Secondary effluent is disinfected using ultraviolet (UV) light disinfection. The UV lamps are in two channels downstream of the secondary clarifiers. Two banks of 126 lamps each are in series in each channel. The channels have fixed weirs that keep the lamps submerged to proper depth under all flow conditions. Following UV disinfection, the secondary effluent is re-aerated by a cascade aerator that dissolves oxygen (DO) into the discharge water at a level that exceeds and conforms with TCEQ effluent DO criteria of 5 mg/L or more. Then, treated effluent is discharge through the existing permitted outfall 001 into the Cameron County Drainage Ditch no. 1. The design of the Robindale WWTP features multiple parallel units of each wastewater treatment process step to ensure redundancy.

*Solids handling and Dewatering process: The WAS is directed to a thickener process. The gravity thickeners thickened WAS discharges directly into the two smaller aerobic digesters with coarse bubble diffusers. Then, the flow from smaller digesters is pumped into two additional aerobic digesters for additional detention time. The digested sludge is then pumped to a dewatering facility which houses the belt filter press. The dewatered cake is conveyed from the press to a truck for disposal offsite at the City of Brownsville Municipal Landfill - permit no. 1273A. The sludge meets U.S. EPA class B criteria.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Influent Screen (mechanical)	2	5 ft. - opening size 6 mm

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Influent Screen (manual bar)	1	5 ft. – opening size 12 mm
Screenings Compactors	2	85 ft3/d
Grit Removal Basins (no. trays = 12)	1	12 ft3/d
Grit Removal System (no. of cyclones)	2	450 gpm @ 10 psig
Grit Removal System (no. of classifiers)	1	0.30 cy/hr.
Grit Pumps	2	450 gpm
Bioreactors Basins Train 1 - Zone 1 & 2	2	81.00 x 48.00 x 20.80 ft
Train 1 - Zone 3 & 4	2	121.00 x 48.00 x 14.30 ft
Train 2 - Zone 1 & 2	2	81.00 x 48.00 x 20.80 ft
Train 2 - Zone 3 & 4	2	121.00 x 48.00 x 14.30 ft
Train 3 - Zone 1 & 2	2	81.00 x 57.00 x 20.80 ft
Train 3 - Zone 3 & 4	2	121.00 x 57.00 x 14.30 ft
Train 4 - Zone 1 & 2	2	81.00 x 57.00 x 20.80 ft
Train 4 - Zone 3 & 4	2	121.00 x 57.00 x 14.30 ft
Mix Liquor Pump Station (Open Screw Pump)	4 (3 duty - 1 standby)	13.5 ft of Lift
Secondary Clarifier #1 (circular)	1	0.00 x 146.00 x 18.00 ft
Secondary Clarifier #2 (circular)	1	0.00 x 146.00 x 18.00 ft
Secondary Clarifier #3 (circular)	1	0.00 x 146.00 x 18.00 ft
Return Activated Sludge (Gravity)	3 (1 p/clarifier)	6.48 MGD / 4,500 gpm
Waste Activated Sludge (Gravity)	1 (8" waste line)	240 gpm
UV Light Disinfection	2 (channels)	252 lamps (in each channel)
Effluent Re-aeration Train	1	72.00 ft x 26.00 ft
Plant Drain Pump Station	2 (1 standby)	1227 gpm
Aerobic Digester #1	1	70.00 x 35.00 x 24.00 ft
Aerobic Digester #2	1	70.00 x 35.00 x 24.00 ft
Aerobic Digester #3	1	119.5 x 71.5 x 24.00 ft

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
Aerobic Digester #4 (circular)	1	0.00 x 110.00 x 18.00 ft
Belt Filter Press Feed Pumps	2 (1 standby)	250 gpm @ 215 RPM (30 PSI)
Belt Filter Press	1	Capacity = 2 meters

C. Process Flow Diagram

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

Attachment: ATTACHMENT H

Section 3. Site Information and Drawing (Instructions Page 43)

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

- Latitude: 25.954068
- Longitude: -97.453932

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

- Latitude: NA
- Longitude: NA

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 I

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

The north sector of the City of Brownsville, Texas

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Robindale WWTP Collection System	Public Utilities Board of the City	**Publicly Owned**	106,572

Collection System Name	Owner Name	Owner Type	Population Served
	of Brownsville, Texas		
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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.**

NA

Section 5. Closure Plans (Instructions Page 44)

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.

NA

Section 6. Permit Specific Requirements (Instructions Page 44)

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: May 22, 2012 and June 26, 2014

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

NA

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.

NA

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.*

NA

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.

NA

3. *Grit disposal*

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

☐ Yes ☒ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

The grit waste is hauled by BPUB sludge transporter units (registration no. 23018 – ATTACHMENT J), and disposed at the City of Brownsville Municipal Landfill - permit no. 1273A.

4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

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

The Robindale Wastewater Treatment Plant does not have the provisions and/or treatment facilities to decant and treat grease. The Public Utilities Board implements a pretreatment Fats, Oil & Grease program to minimize the introduction of grease into the collection system.

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 AL36 (ATTACHMENT K) or TXRNE NA

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:

NA

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.

NA

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.

NA

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.

NA

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

NA

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

NA

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

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

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

☐ Yes ☒ No

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

NA

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	<2.00	<2.00	1	Composite	11/19-20/24 14:00 - 12:00
Total Suspended Solids, mg/l	2.30	2.30	1	Composite	11/19-20/24 14:00 - 12:00
Ammonia Nitrogen, mg/l	0.348	0.348	1	Composite	11/19-20/24 14:00 - 12:00
Nitrate Nitrogen, mg/l	11.8	11.8	1	Composite	11/19-20/24 14:00 - 12:00
Total Kjeldahl Nitrogen, mg/l	0.351	0.351	1	Composite	11/19-20/24 14:00 - 12:00
Sulfate, mg/l	344	344	1	Composite	11/19-20/24 14:00 - 12:00
Chloride, mg/l	639	639	1	Composite	11/19-20/24 14:00 - 12:00
Total Phosphorus, mg/l	4.05	4.05	1	Composite	11/19-20/24 14:00 - 12:00
pH, standard units	7.0	7.0	1	Grab	11/20/24 9:30
Dissolved Oxygen*, mg/l	7.0	7.0	1	Grab	11/20/24 9:30
Chlorine Residual, mg/l	<0.05	<0.05	1	Grab	11/20/24 9:30
E.coli (CFU/100ml) freshwater	5.2 MPN	5.2 MPN	1	Grab	11/20/24 9:30
Entercocci (CFU/100ml) saltwater	NA	NA	NA	NA	NA
Total Dissolved Solids, mg/l	1840	1840	1	Composite	11/19-20/24 14:00 - 12:00
Electrical Conductivity, µmohs/cm, †	3230 umhos/cm	3230 umhos/cm	1	Composite	11/19-20/24 14:00 - 12:00
Oil & Grease, mg/l	<4.82	<4.82	1	Grab	11/20/24 9:30
Alkalinity ($CaCO_3$)*, mg/l	101	101	1	Composite	11/19-20/24 14:00 - 12:00

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Victor H. Martinez

Facility Operator's License Classification and Level: WW Treatment Operator Class A

Facility Operator's License Number: WW0059325

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 1 MGD
- ☒ Serves >= 10,000 people
- ☒ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user - land application (onsite)
- ☐ Biosolids end user - surface disposal (onsite)
- ☐ Biosolids end user - incinerator (onsite)

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process: NA

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk	1378.7	Class B: PSRP Aerobic Digestion	N/A: Disposal in Landfill
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: City of Brownsville Municipal Landfill

TCEQ permit or registration number: 1273A

County where disposal site is located: Cameron

E. Transportation method

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

Name of the hauler: Public Utilities Board of the City of Brownsville, Texas

Hauler registration number: 23018 (ATTACHMENT J)

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: NA
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: NA
- Federal Emergency Management Map:

  Attachment: NA
- Site map:

  Attachment: NA

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: NA

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:

NA

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: NA

Total Kjeldahl Nitrogen, mg/kg: NA

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: NA

Phosphorus, mg/kg: NA

Potassium, mg/kg: NA

pH, standard units: NA

Ammonia Nitrogen mg/kg: NA

Arsenic: NA

Cadmium: NA

Chromium: NA

Copper: NA

Lead: NA

Mercury: NA

Molybdenum: NA

Nickel: NA

Selenium: NA

Zinc: NA

Total PCBs: NA

Provide the following information:

Volume and frequency of sludge to the lagoon(s): NA

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

Total dry tons stored in the lagoons(s) over the life of the unit: NA

C. Liner information

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

☐ Yes ☐ No

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

NA

D. Site development plan

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

NA

Attach the following documents to the application.

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

  Attachment: NA
- Copy of the closure plan

  Attachment: NA
- Copy of deed recordation for the site

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

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

  Attachment: NA
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: NA

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: NA

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

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:

R10397-005 - Reuse Authorization (ATTACHMENT K).

TXR05AL36 – Stormwater Authorization (ATTACHMENT K).

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:

NA

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: NA

Section 14. Laboratory Accreditation (Instructions Page 55)

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: Albert Gomez Jr., P.E., REM

Title: Director of Environmental Services

Signature: Albert Gomez Jr.

Date: 5/20/25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

NA

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. ***Municipally incorporated areas***

   If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

   Is any portion of the proposed service area located in an incorporated city?

   ☐ Yes ☐ No ☒ Not Applicable

   If yes, within the city limits of: NA

   If yes, attach correspondence from the city.

   Attachment: NA

   If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

   Attachment: NA

2. ***Utility CCN areas***

   Is any portion of the proposed service area located inside another utility's CCN area?

   ☐ Yes ☐ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: NA

3. ***Nearby WWTPs or collection systems***

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: NA

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: NA

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: NA

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): NA

Average Influent Organic Strength or BOD_5 Concentration in mg/l: NA

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): NA

Provide the source of the average organic strength or BOD_5 concentration.

NA

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	NA	NA
Subdivision	NA	NA
Trailer park - transient	NA	NA
Mobile home park	NA	NA
School with cafeteria and showers	NA	NA
School with cafeteria, no showers	NA	NA
Recreational park, overnight use	NA	NA
Recreational park, day use	NA	NA
Office building or factory	NA	NA
Motel	NA	NA
Restaurant	NA	NA
Hospital	NA	NA
Nursing home	NA	NA
Other	NA	NA
TOTAL FLOW from all sources	NA	NA
AVERAGE BOD_5 from all sources	NA	NA

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: NA

Total Suspended Solids, mg/l: NA

Ammonia Nitrogen, mg/l: NA

Total Phosphorus, mg/l: NA

Dissolved Oxygen, mg/l: NA

Other: NA

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: NA mg/l after NA minutes detention time at peak flow

Dechlorination process: NA

☐ Ultraviolet Light: NA seconds contact time at peak flow

☐ Other: NA

Section 4. Design Calculations (Instructions Page 58)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: NA

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

NA

Provide the source(s) used to determine 100-year frequency flood plain.

NA

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: NA

If no, provide the approximate date you anticipate submitting your application to the Corps: NA

B. Wind rose

Attach a wind rose: NA

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: NA

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: NA

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: NA

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☒ No

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

Owner of the drinking water supply: NA

Distance and direction to the intake: NA

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

Attachment: NA

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

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

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).

NA

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).

NA

Section 3. Classified Segments (Instructions Page 63)

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 63)

Name of the immediate receiving waters: Cameron County Drainage Ditch No. 1

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: NA

Average depth of the entire water body, in feet: NA

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

☒ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: NA

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: NA

C. Downstream perennial confluences

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

NA

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.

NA

E. Normal dry weather characteristics

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

Man-made drainage canal with flowing water

Date and time of observation: 2/27/2025 @ 3:00 PM

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

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: NA

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: Drainage Ditch

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: NA Time of study: NA

Stream name: NA

Location: NA

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: NA

Number of stream bends that are moderately defined: NA

Number of stream bends that are poorly defined: NA

Number of riffles: NA

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

NA

Stream transects

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

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.	NA	NA	NA
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 65)

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

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

Length of stream evaluated, in feet: NA

Number of lateral transects made: NA

Average stream width, in feet: NA

Average stream depth, in feet: NA

Average stream velocity, in feet/second: NA

Instantaneous stream flow, in cubic feet/second: NA

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

Size of pools (large, small, moderate, none): NA

Maximum pool depth, in feet: NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): NA

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

For existing authorizations, provide Registration Number: NA

Section 2. Land Application Site(s) (Instructions Page 67)

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	NA	NA	NA

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
NA	NA	NA	NA	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 67)

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 67)

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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation 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 radius 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 located within a half-mile radius of the disposal site or property boundaries 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
NA	NA	NA	Choose an item.	NA
			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: NA

Section 7. Groundwater Quality (Instructions Page 68)

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: NA

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

Attachment: NA

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: NA

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: NA

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
NA	NA	NA	NA	NA

Section 9. Effluent Monitoring Data (Instructions Page 70)

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	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
NA	NA	NA	NA	NA	NA	NA

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

NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 71)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: NA

Design application frequency:

hours/day NA **And** days/week NA

Land grade (slope):

average percent (%): NA

maximum percent (%): NA

Design application rate in acre-feet/acre/year: NA

Design total nitrogen loading rate, in lbs N/acre/year: NA

Soil conductivity (mmhos/cm): NA

Method of application: NA

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: NA

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: NA

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: NA

C. Evapotranspiration beds

Number of beds: NA

Area of bed(s), in acres: NA

Depth of bed(s), in feet: NA

Void ratio of soil in the beds: NA

Storage volume within the beds, in acre-feet: NA

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: NA

D. Overland flow

Area used for application, in acres: NA

Slopes for application area, percent (%): NA

Design application rate, in gpm/foot of slope width: NA

Slope length, in feet: NA

Design BOD_5 loading rate, in lbs BOD_5/acre/day: NA

Design application frequency:

hours/day: NA **And** days/week: NA

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: NA

Section 2. Edwards Aquifer (Instructions Page 72)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 73)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: NA

Application area, in acres: NA

Area of drainfield, in square feet: NA

Application rate, in gal/square foot/day: NA

Depth to groundwater, in feet: NA

Area of trench, in square feet: NA

Dosing duration per area, in hours: NA

Number of beds: NA

Dosing amount per area, in inches/day: NA

Infiltration rate, in inches/hour: NA

Storage volume, in gallons: NA

Area of bed(s), in square feet: NA

Soil Classification: NA

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: NA

Section 2. Edwards Aquifer (Instructions Page 73)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 74)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. NA Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

NA

C. Owner of the subsurface area drip dispersal system: NA

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

NA

E. Owner of the land where the subsurface area drip dispersal system is located: NA

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

NA

Section 2. Subsurface Area Drip Dispersal System (Instructions Page

74)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: NA

B. Irrigation operations

Application area, in acres: NA

Infiltration Rate, in inches/hour: NA

Average slope of the application area, percent (%): NA

Maximum slope of the application area, percent (%): NA

Storage volume, in gallons: NA

Major soil series: NA

Depth to groundwater, in feet: NA

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: NA

Nitrogen application rate, in lbs/gal/day: NA

D. Dosing information

Number of doses per day: NA

Dosing duration per area, in hours: NA

Rest period between doses, in hours: NA

Dosing amount per area, in inches/day: NA

Number of zones: NA

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: NA

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79.*

Attachment: NA

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73.*

Attachment: NA

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75.*

Attachment: NA

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157.*

Attachment: NA

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: NA

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: NA

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: NA

Section 6. Edwards Aquifer (Instructions Page 75)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

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 76)

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

Grab ☒ Composite ☒ ATTACHMENT L

Date and time sample(s) collected: Date: November 19-20, 2024; Time: 14:00 – 12:00

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<2.00	<2.00	1	50
Aldrin	<1.00	<1.00	1	0.01
Aluminum	0.00817 mg/L	0.00817 mg/L	1	2.5
Anthracene	<1.04	<1.04	1	10
Antimony	<0.00376 mg/L	<0.00376 mg/L	1	5
Arsenic	0.00185 mg/L	0.00185 mg/L	1	0.5
Barium	0.0314 mg/L	0.0314 mg/L	1	3
Benzene	<1.00	<1.00	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)anthracene	<1.04	<1.04	1	5
Benzo(a)pyrene	<1.04	<1.04	1	5
Bis(2-chloroethyl)ether	<1.04	<1.04	1	10
Bis(2-ethylhexyl)phthalate	<7.77	<7.77	1	10
Bromodichloromethane	<1.00	<1.00	1	10
Bromoform	<2.00	<2.00	1	10
Cadmium	<0.001 mg/L	<0.001 mg/L	1	1
Carbon Tetrachloride	<1.00	<1.00	1	2
Carbaryl	<2.50	<2.50	1	5
Chlordane*	<0.200	<0.200	1	0.2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<1.00	<1.00	1	10
Chlorpyrifos	<0.050	<0.050	1	0.05
Chromium (Total)	<0.001 mg/L	<0.001 mg/L	1	3
Chromium (Tri) **(*1)**	<0.003 mg/L	<0.003 mg/L	1	N/A
Chromium (Hex)	<3.00	<3.00	1	3
Copper	0.00308 mg/L	0.00308 mg/L	1	2
Chrysene	<1.04	<1.04	1	5
p-Chloro-m-Cresol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.29	<8.29	1	50
p-Cresol	<6.42	<6.42	1	10
Cyanide **(*2)**	<0.005 mg/L	<0.005 mg/L	1	10
4,4'- DDD	<0.010	<0.010	1	0.1
4,4'- DDE	<0.010	<0.010	1	0.1
4,4'- DDT	<0.010	<0.010	1	0.02
2,4-D	<0.497	<0.497	1	0.7
Demeton (O and S)	<0.0501	<0.0501	1	0.20
Diazinon	<0.0501	<0.0501	1	0.5/0.1
1,2-Dibromoethane	<1.00	<1.00	1	10
m-Dichlorobenzene	<1.00	<1.00	1	10
o-Dichlorobenzene	<1.00	<1.00	1	10
p-Dichlorobenzene	<1.00	<1.00	1	10
3,3'-Dichlorobenzidine	<5.00	<5.00	1	5
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
Dichloromethane	<2.00	<2.00	1	20
1,2-Dichloropropane	<1.01	<1.01	1	10
1,3-Dichloropropene	<1.00	<1.00	1	10
Dicofol	<0.0501	<0.0501	1	1
Dieldrin	<0.010	<0.010	1	0.02
2,4-Dimethylphenol	<2.49	<2.49	1	10
Di-n-Butyl Phthalate	<7.77	<7.77	1	10
Diuron	<0.045	<0.045	1	0.09
Endosulfan I (alpha)	<0.010	<0.010	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.010	<0.010	1	0.02
Endosulfan Sulfate	<0.010	<0.010	1	0.1
Endrin	<0.010	<0.010	1	0.02
Epichlorohydrin	**Pending**	**Pending**	**Pending**	---
Ethylbenzene	<1.00	<1.00	1	10
Ethylene Glycol	**Pending**	**Pending**	**Pending**	---
Fluoride	<0.500 mg/L	<0.500 mg/L	1	500
Guthion	<0.0501	<0.0501	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclohexane (alpha)	<0.010	<0.010	1	0.05
Hexachlorocyclohexane (beta)	<0.010	<0.010	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.010	<0.010	1	0.05
Hexachlorocyclopentadiene	<9.33	<9.33	1	10
Hexachloroethane	<1.04	<1.04	1	20
Hexachlorophene	<2.55	<2.55	1	10
4,4'-Isopropylidenediphenol	**Pending**	**Pending**	**Pending**	1
Lead	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Malathion	<0.0501	<0.0501	1	0.1
Mercury	<5.32 ng/L	<5.32 ng/L	1	0.005
Methoxychlor	<0.010	<0.010	1	2
Methyl Ethyl Ketone	<10.0	<10.0	1	50
Methyl tert-butyl ether	**Pending**	**Pending**	**Pending**	---
Mirex	<0.010	<0.010	1	0.02
Nickel	0.00247 mg/L	0.00247 mg/L	1	2
Nitrate-Nitrogen	11.8 mg/L	11.8 mg/L	1	100
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodiethylamine	<1.04	<1.04	1	20
N-Nitroso-di-n-Butylamine	<1.04	<1.04	1	20
Nonylphenol	<37.4	<37.4	1	333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Parathion (ethyl)	<0.0501	<0.0501	1	0.1
Pentachlorobenzene	<1.04	<1.04	1	20
Pentachlorophenol	<1.04	<1.04	1	5
Phenanthrene	<1.04	<1.04	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.200	<0.200	1	0.2
Pyridine	<5.60	<5.60	1	20
Selenium	0.0024 mg/L	0.0024 mg/L	1	5
Silver	<0.0002 mg/L	<0.0002 mg/L	1	0.5
1,2,4,5-Tetrachlorobenzene	<1.04	<1.04	1	20
1,1,2,2-Tetrachloroethane	<2.00	<2.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10
Thallium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Toluene	<1.00	<1.00	1	10
Toxaphene	<0.200	<0.200	1	0.3
2,4,5-TP (Silvex)	<0.298	<0.298	1	0.3
Tributyltin (see instructions for explanation)	<0.00709	<0.00709	1	0.01
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<2.00	<2.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
2,4,5-Trichlorophenol	<1.04	<1.04	1	50
TTHM (Total Trihalomethanes)	<0.002 mg/L	<0.002 mg/L	1	10
Vinyl Chloride	<1.04	<1.04	1	10
Zinc	0.0224 mg/L	0.0224 mg/L	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☒ Composite ☒ ATTACHMENT L

Date and time sample(s) collected: Date: November 19-20, 2024; Time: 14:00 – 12:00

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<0.00376 mg/L	<0.00376 mg/L	1	5
Arsenic	0.00185 mg/L	0.00185 mg/L	1	0.5
Beryllium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Cadmium	<0.001 mg/L	<0.001 mg/L	1	1
Chromium (Total)	<0.001 mg/L	<0.001 mg/L	1	3
Chromium (Hex)	<3.00	<3.00	1	3
Chromium (Tri) **(*1)**	<0.003 mg/L	<0.003 mg/L	1	N/A
Copper	0.00308 mg/L	0.00308 mg/L	1	2
Lead	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Mercury	<5.32 ng/L	<5.32 ng/L	1	0.005
Nickel	0.00247 mg/L	0.00247 mg/L	1	2
Selenium	0.0024 mg/L	0.0024 mg/L	1	5
Silver	<0.0002 mg/L	<0.0002 mg/L	1	0.5
Thallium	<0.0005 mg/L	<0.0005 mg/L	1	0.5
Zinc	0.0224 mg/L	0.0224 mg/L	1	5
Cyanide **(*2)**	<0.005 mg/L	<0.005 mg/L	1	10
Phenols, Total	<1.55	<1.55	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<4.00	<4.00	1	50
Acrylonitrile	<2.00	<2.00	1	50
Benzene	<1.00	<1.00	1	10
Bromoform	<2.00	<2.00	1	10
Carbon Tetrachloride	<1.00	<1.00	1	2
Chlorobenzene	<1.00	<1.00	1	10
Chlorodibromomethane	<1.00	<1.00	1	10
Chloroethane	<5.00	<5.00	1	50
2-Chloroethylvinyl Ether	<5.00	<5.00	1	10
Chloroform	<1.00	<1.00	1	10
Dichlorobromomethane [Bromodichloromethane]	<1.00	<1.00	1	10
1,1-Dichloroethane	<1.00	<1.00	1	10
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
1,2-Dichloropropane	<1.01	<1.01	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.00	<1.00	1	10
1,2-Trans-Dichloroethylene	<1.00	<1.00	1	10
Ethylbenzene	<1.00	<1.00	1	10
Methyl Bromide	<1.01	<1.01	1	50
Methyl Chloride	<1.00	<1.00	1	50
Methylene Chloride	<2.00	<2.00	1	20
1,1,2,2-Tetrachloroethane	<2.00	<2.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10
Toluene	<1.00	<1.00	1	10
1,1,1-Trichloroethane	<1.00	<1.00	1	10
1,1,2-Trichloroethane	<2.00	<2.00	1	10
Trichloroethylene	<1.00	<1.00	1	10
Vinyl Chloride	<1.04	<1.04	1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<1.04	<1.04	1	10
2,4-Dichlorophenol	<1.04	<1.04	1	10
2,4-Dimethylphenol	<2.49	<2.49	1	10
4,6-Dinitro-o-Cresol	<8.29	<8.29	1	50
2,4-Dinitrophenol	<9.33	<9.33	1	50
2-Nitrophenol	<1.04	<1.04	1	20
4-Nitrophenol	<1.04	<1.04	1	50
P-Chloro-m-Cresol	<2.49	<2.49	1	10
Pentalchlorophenol	<1.04	<1.04	1	5
Phenol	<1.55	<1.55	1	10
2,4,6-Trichlorophenol	<1.04	<1.04	1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<1.04	<1.04	1	10
Acenaphthylene	<1.04	<1.04	1	10
Anthracene	<1.04	<1.04	1	10
Benzidine	<20.7	<20.7	1	50
Benzo(a)Anthracene	<1.04	<1.04	1	5
Benzo(a)Pyrene	<1.04	<1.04	1	5
3,4-Benzofluoranthene	<1.04	<1.04	1	10
Benzo(ghi)Perylene	<1.04	<1.04	1	20
Benzo(k)Fluoranthene	<1.04	<1.04	1	5
Bis(2-Chloroethoxy)Methane	<1.04	<1.04	1	10
Bis(2-Chloroethyl)Ether	<1.04	<1.04	1	10
Bis(2-Chloroisopropyl)Ether	<1.04	<1.04	1	10
Bis(2-Ethylhexyl)Phthalate	<7.77	<7.77	1	10
4-Bromophenyl Phenyl Ether	<1.04	<1.04	1	10
Butyl benzyl Phthalate	<7.77	<7.77	1	10
2-Chloronaphthalene	<1.04	<1.04	1	10
4-Chlorophenyl phenyl ether	<1.04	<1.04	1	10
Chrysene	<1.04	<1.04	1	5
Dibenzo(a,h)Anthracene	<1.04	<1.04	1	5
1,2-(o)Dichlorobenzene	<1.04	<1.04	1	10
1,3-(m)Dichlorobenzene	<1.04	<1.04	1	10
1,4-(p)Dichlorobenzene	<1.04	<1.04	1	10
3,3-Dichlorobenzidine	<5.00	<5.00	1	5
Diethyl Phthalate	<5.91	<5.91	1	10
Dimethyl Phthalate	<4.97	<4.97	1	10
Di-n-Butyl Phthalate	<7.77	<7.77	1	10
2,4-Dinitrotoluene	<3.63	<3.63	1	10
2,6-Dinitrotoluene	<1.04	<1.04	1	10
Di-n-Octyl Phthalate	<1.04	<1.04	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<1.04	<1.04	1	20
Fluoranthene	<1.04	<1.04	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<1.04	<1.04	1	10
Hexachlorobenzene	<1.04	<1.04	1	5
Hexachlorobutadiene	<1.04	<1.04	1	10
Hexachlorocyclo-pentadiene	<9.33	<9.33	1	10
Hexachloroethane	<1.04	<1.04	1	20
Indeno(1,2,3-cd)pyrene	<1.04	<1.04	1	5
Isophorone	<1.04	<1.04	1	10
Naphthalene	<1.04	<1.04	1	10
Nitrobenzene	<1.04	<1.04	1	10
N-Nitrosodimethylamine	<7.25	<7.25	1	50
N-Nitrosodi-n-Propylamine	<1.04	<1.04	1	20
N-Nitrosodiphenylamine	<1.04	<1.04	1	20
Phenanthrene	<1.04	<1.04	1	10
Pyrene	<1.04	<1.04	1	10
1,2,4-Trichlorobenzene	<1.04	<1.04	1	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.010	<0.010	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.010	<0.010	1	0.05
Chlordane	<0.200	<0.200	1	0.2
4,4-DDT	<0.010	<0.010	1	0.02
4,4-DDE	<0.010	<0.010	1	0.1
4,4,-DDD	<0.010	<0.010	1	0.1
Dieldrin	<0.010	<0.010	1	0.02
Endosulfan I (alpha)	<0.010	<0.010	1	0.01
Endosulfan II (beta)	<0.010	<0.010	1	0.02
Endosulfan Sulfate	<0.010	<0.010	1	0.1
Endrin	<0.010	<0.010	1	0.02
Endrin Aldehyde	<0.010	<0.010	1	0.1
Heptachlor	<0.010	<0.010	1	0.01
Heptachlor Epoxide	<0.010	<0.010	1	0.01
PCB-1242	<0.200	<0.200	1	0.2
PCB-1254	<0.200	<0.200	1	0.2
PCB-1221	<0.200	<0.200	1	0.2
PCB-1232	<0.200	<0.200	1	0.2
PCB-1248	<0.200	<0.200	1	0.2
PCB-1260	<0.200	<0.200	1	0.2
PCB-1016	<0.200	<0.200	1	0.2
Toxaphene	<0.200	<0.200	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

- ☐ 2,4,5-trichlorophenoxy acetic acid
  Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
  Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
  Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
  Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
  Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
  Common Name HCP, CASRN 70-30-4

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

NA

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

☐ Yes ☒ No

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

NA

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

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

Grab ☐ NA Composite ☐ NA

Date and time sample(s) collected: NA

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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

7-day Chronic: 18

48-hour Acute: 9

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

NA

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
NA	NA	NA	NA

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 1 *(CIU ceased operations in 10/25/2024)

Average Daily Flows, in MGD: 0.0014986

Significant IUs - non-categorical:

Number of IUs: 4

Average Daily Flows, in MGD: 0.1020837 MGD (SIU1: 0.00052603, SIU2: 0.00033425, SIU3: 0.005768 & SIU4: 0.09545479)

Other IUs:

Number of IUs: NA

Average Daily Flows, in MGD: NA

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.

NA

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.

Mar. 28, 2022 – E. coli exceedance due to sample contamination – permit limit = 399 MPN/100 ml vs result = 816.4 MPN/100 ml

Aug. 17, 2023 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result 14.7 mg/L

*Oct. 14, 2023 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result 11.1 mg/L

*Dec. 2, 2024 – Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result = 12.1 mg/L

*Dec. 3, 2024 - Ammonia exceedance due to blower repairs. Daily max limit = 10 mg/L vs result = 10.4 mg/L

*NCN exceedances only reported through NetDMR system. Refer to ATTACHMENT M.

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 87)

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.

NA

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.

NA

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
NA	NA	NA	NA	NA

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.

NA

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

A. General information

Company Name: NA

SIC Code: NA

Contact name: NA

Address: NA

City, State, and Zip Code: NA

Telephone number: NA

Email address: NA

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).

NA

C. Product and service information

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

NA

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: NA

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: NA

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: NA

Click or tap here to enter text. NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

Category: NA

Subcategories: NA

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.

NA

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): NA

Program ID: NA

Contact Name: NA

Phone Number: NA

2. Agent/Consultant Contact Information

Contact Name: NA

Address: NA

City, State, and Zip Code: NA

Phone Number: NA

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: NA

Contact Name: NA

Address: NA

City, State, and Zip Code: NA

Phone Number: NA

4. Facility Contact Information

Facility Name: NA

Address: NA

City, State, and Zip Code: NA

Location description (if no address is available): NA

Facility Contact Person: NA

Phone Number: NA

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: NA

Longitude: NA

Method of determination (GPS, TOPO, etc.): NA

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: NA

Number of Injection Wells: NA

7. **Purpose**

Detailed Description regarding purpose of Injection System:

NA

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: NA

City, State, and Zip Code: NA

Phone Number: NA

License Number: NA

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing	NA	NA	NA	NA	NA
Tubing	NA	NA	NA	NA	NA
Screen	NA	NA	NA	NA	NA

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: NA

System(s) Construction: NA

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: NA
2. Receiving Formation Name of Injection Zone: NA
3. Well/Trench Total Depth: NA
4. Surface Elevation: NA
5. Depth to Ground Water: NA
6. Injection Zone Depth: NA
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

   Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

   Name: NA

   Thickness: NA
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: NA
13. Maximum injection Rate/Volume/Pressure: NA
14. Water wells within 1/4 mile radius (attach map as Attachment I): NA
15. Injection wells within 1/4 mile radius (attach map as Attachment J): NA
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): NA
17. Sampling frequency: NA
18. Known hazardous components in injection fluid: NA

Section 5. Site History

1. Type of Facility: NA
2. Contamination Dates: NA
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): NA
4. Previous Remediation (attach results of any previous remediation as attachment M): NA

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

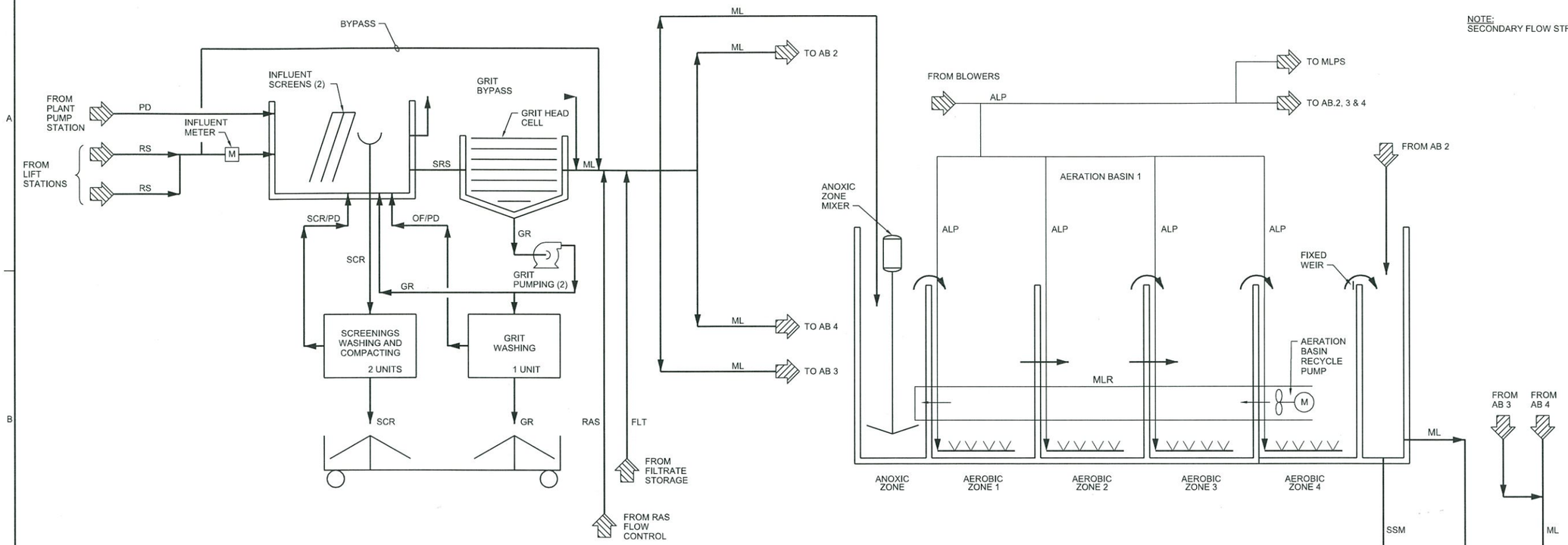
5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

Technical Report 1.0

ATTACHMENT H (page 4)

Robindale WWTP Process Flow Diagram

NOTE:
SECONDARY FLOW STREAMS NOT SHOWN.



DIGITALLY SIGNED ON JULY 25, 2012

STATE OF TEXAS · JOSEPH W. JENKINS · 85777 · REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY	APVD
DSGN	DJ GRIGSBY	DR RK COWAN CHK JW JENKINS		APVD DJ GRIGSBY

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BROWNSVILLE PUBLIC UTILITIES BOARD
BROWNSVILLE, TEXAS
ROBINDALE WWTP

CH2MHILL®
TPBE FIRM NO. 2297

GENERAL

LIQUIDS PROCESS FLOW DIAGRAM

ISSUED FOR CONSTRUCTION

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

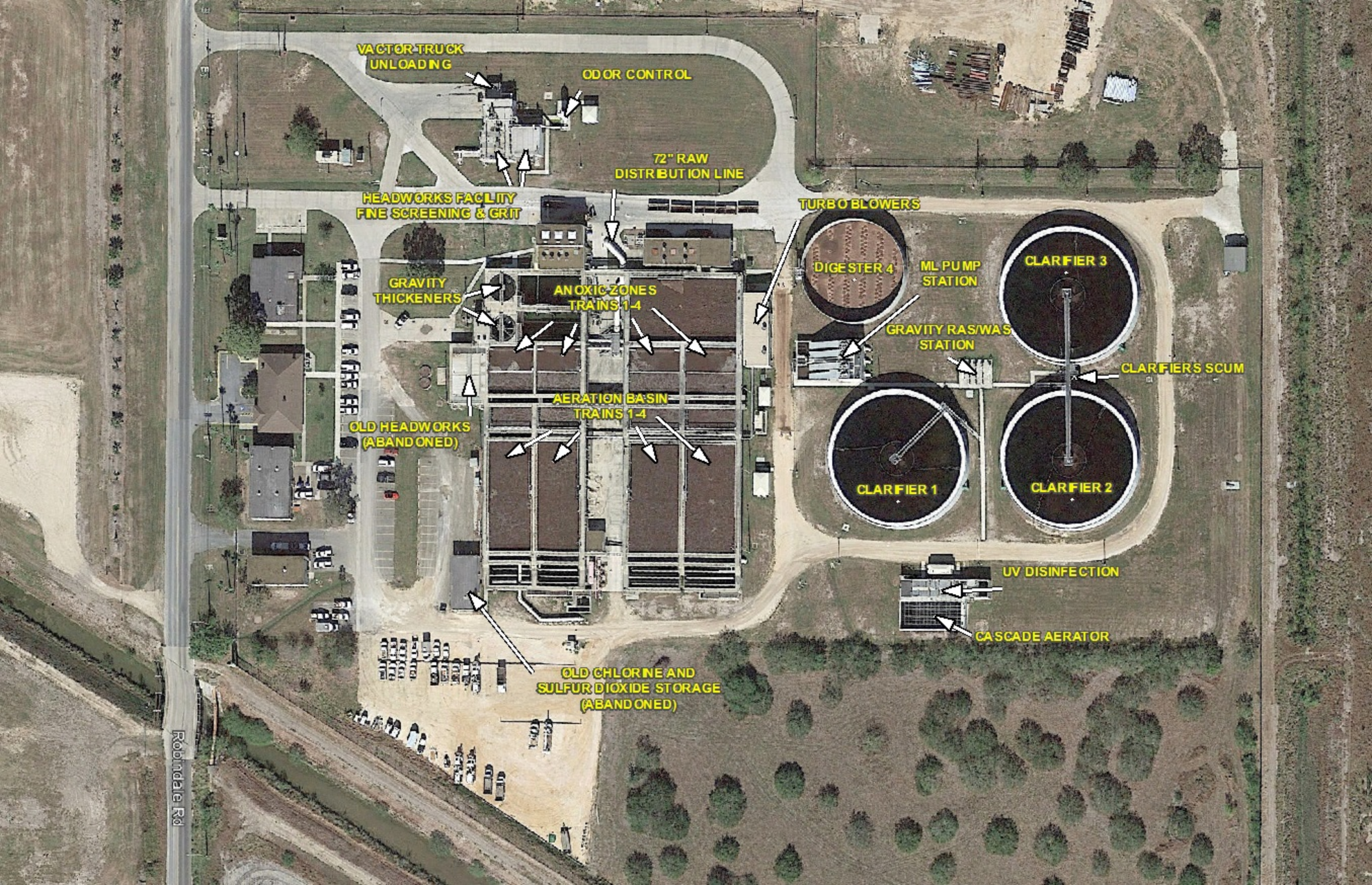
DATE	JULY 2012
PROJ	428307
DWG	01-G-0032
SHEET	23

FILENAME: 01-G-0032_428307.dgn PLOT DATE: 7/19/2012 PLOT TIME: 3:02:05 PM

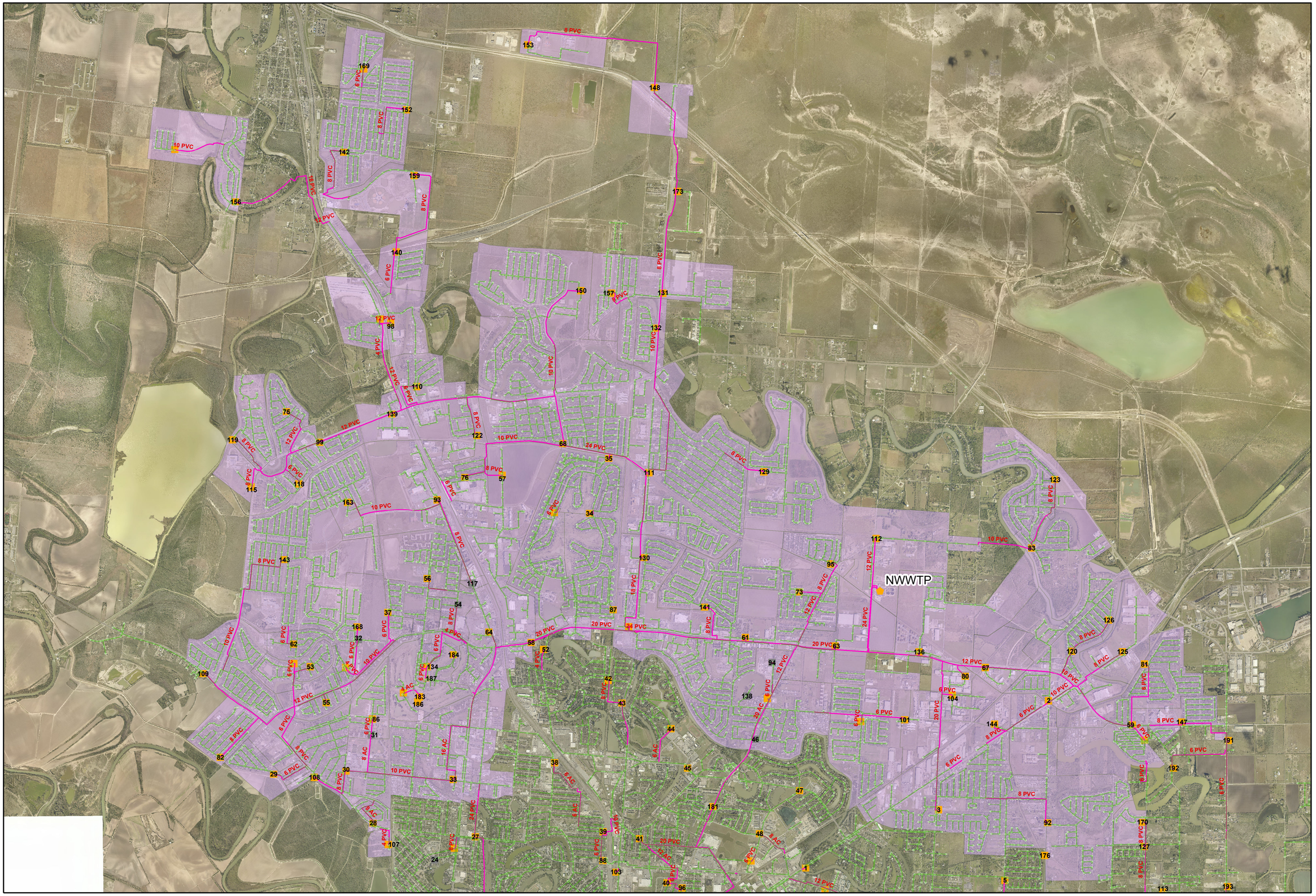
Technical Report 1.0

ATTACHMENT I (page 4)

Robindale WWTP Site Drawing


VACTOR TRUCK UNLOADING
ODOR CONTROL
72" RAW DISTRIBUTION LINE
HEADWORKS FACILITY FINE SCREENING & GRIT
TURBO BLOWERS
DIGESTER 4
ML PUMP STATION
CLARIFIER 3
GRAVITY THICKENERS
ANOXIC ZONES TRAINS 1-4
GRAVITY RAS/WAS STATION
CLARIFIERS SCUM
AERATION BASIN TRAINS 1-4
OLD HEADWORKS (ABANDONED)
CLARIFIER 1
CLARIFIER 2
UV DISINFECTION
CASCADE AERATOR
OLD CHLORINE AND SULFUR DIOXIDE STORAGE (ABANDONED)
Robindale Rd

NWWTP LIFTSTATION BOUNDRY



BROWNSVILLE PUBLIC UTILITIES BOARD

GEOGRAPHIC INFORMATION SYSTEMS DEPARTMENT

Legend

- Waste Water Treatment Plant
- Force Main
- Gravity Main

LIFT STATION BOUNDARIES

WWTP

- NWWTP

N

W E

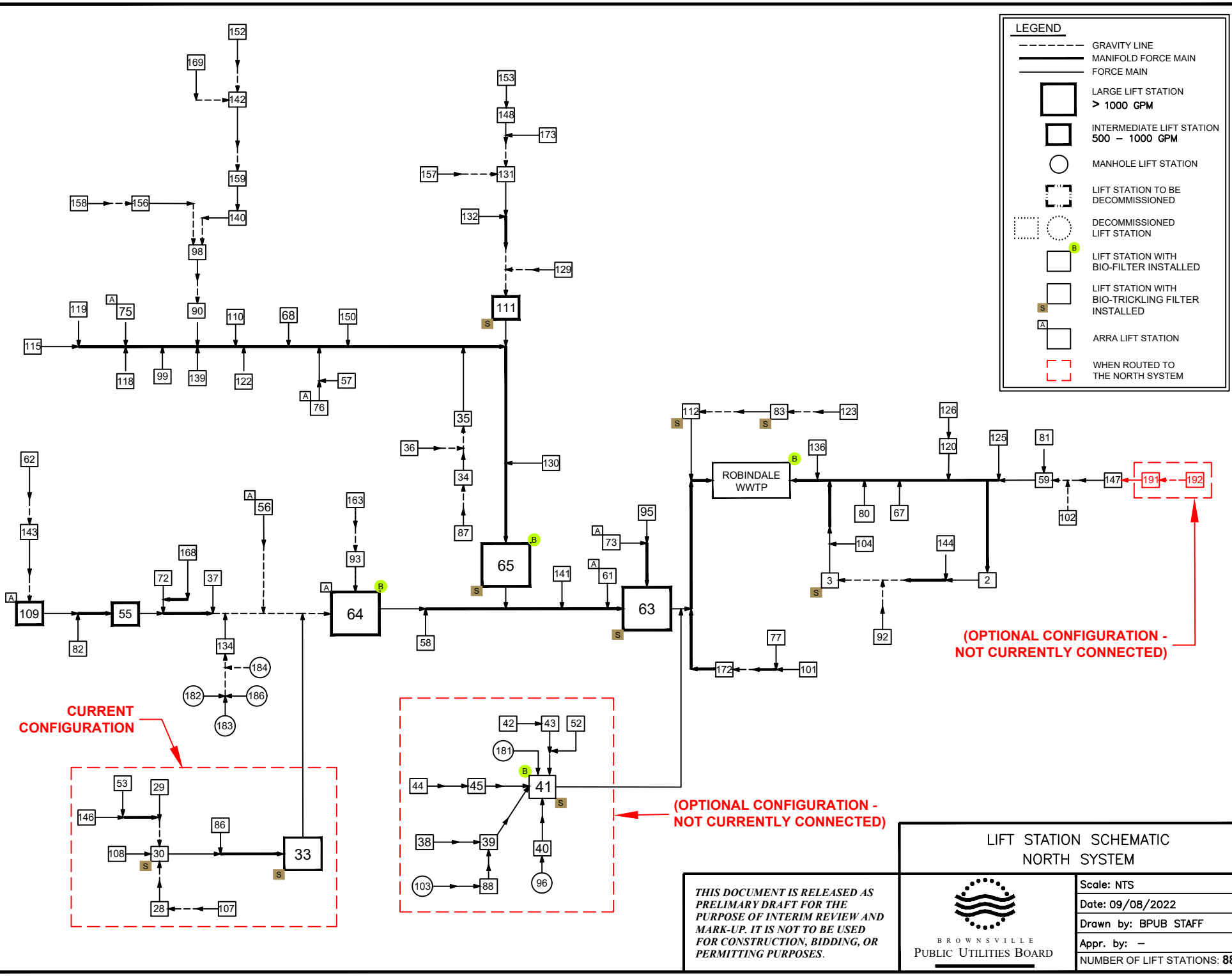
S

1 inch = 2,700 feet

DISCLAIMER - PUBLIC UTILITIES OF BROWNSVILLE

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LEGEND
GRAVITY LINE
MANIFOLD FORCE MAIN
FORCE MAIN
LARGE LIFT STATION
> 1000 GPM
INTERMEDIATE LIFT STATION
500 – 1000 GPM
MANHOLE LIFT STATION
LIFT STATION TO BE DECOMMISSIONED
DECOMMISSIONED LIFT STATION
LIFT STATION WITH BIO-FILTER INSTALLED
LIFT STATION WITH BIO-TRICKLING FILTER INSTALLED
ARRA LIFT STATION
WHEN ROUTED TO THE NORTH SYSTEM
ROBINDALE WWTP
CURRENT CONFIGURATION
(OPTIONAL CONFIGURATION - NOT CURRENTLY CONNECTED)
(OPTIONAL CONFIGURATION - NOT CURRENTLY CONNECTED)
LIFT STATION SCHEMATIC
NORTH SYSTEM
THIS DOCUMENT IS RELEASED AS PRELIMARY DRAFT FOR THE PURPOSE OF INTERIM REVIEW AND MARK-UP. IT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, OR PERMITTING PURPOSES.
BROWNSVILLE PUBLIC UTILITIES BOARD
Scale: NTS
Date: 09/08/2022
Drawn by: BPUB STAFF
Appr. by: –
NUMBER OF LIFT STATIONS: 88

Technical Report 1.0

ATTACHMENT J (page 8 and page 14)

Sludge Transporter Registration

Brownsville Public Utilities Board No. 23018

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

January 29, 2025

JOSE LECHUGA
PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
3208 ROBINDALE RD
BROWNSVILLE, TX 78526-5109

Re: Sludge Transportation Registration
BROWNSVILLE PUBLIC UTILITIES BOARD
Registration Number: 23018 **CN601658651** **RN103164091**

Dear Jose Lechuga:

The Section Manager of the Registration and Reporting Section has issued the enclosed registration in accordance with Title 30 of the Texas Administrative Code (30 TAC) Chapter 312 Subsection (§) 312.147 (b). This action is taken under authority delegated by the Executive Director of the Texas Commission on Environmental Quality.

Issuance of this authorization is not an acknowledgment that your operation is in full compliance with state and federal rules and regulations. Failure to comply with all rules and regulations may result in enforcement action and/or the revocation of your registration.

Your registration number is required to appear on all tanks and containers used for the collection and transportation of sewage sludge and similar waste. It should also be used on all correspondence regarding your sludge registration.

A copy of your sludge transporter registration, a copy of your application for registration and copies of a amendments to this registration must be available at all times and at all locations where business is bein transacted under this registration, including all motorized vehicles operated under this registration.

If you have any questions or comments, please contact the Sludge Transporter Registration Program at (512) 239-6413.

Sincerely,

Shannon W. Frazier, Manager
Registration & Reporting Section

Enclosures
CC: TCEQ Region 15, HARLINGEN

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

Print Date: January 29, 2025

For the Commission

Company: PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE TEXAS
Regulated Entity: BROWNSVILLE PUBLIC UTILITIES BOARD
Organization Type: CORPORATION
County: CAMERON
Transport Waste into Texas: NO

Registered Since: July 27, 2000
Expiration Date: August 31, 2026
Status: ACTIVE

TCEQ Region: 15
Transport Waste out of Texas: NO

Physical Address:
1425 ROBINHOOD ST
BROWNSVILLE, TX 78521-4230

Mailing Address:
3208 ROBINDALE RD
BROWNSVILLE, TX 78526-5109

Contact Information

Contact: JOSE LECHUGA

Phone: 956-983-6518

Fax: 956-574-6114

E-Mail: JLECHUGA@BROWNSVILLE-PUB.COM

Sticker Numbers Issued and Listed below will expire on August 31, 2026:

09449	09450	09451	09452	09453	09454	09455	09456	09457
09458	09459	09460	09461	09462	09463	09464	09465	09466
09467	09468	07565	07566	09599	04972			

This is your registration which reflects the information submitted on your application to the Register or Renew as a Transporter of Municipal Sludge(s) and Similar Wastes. Requirements for transportation are provided in accordance with 30 TAC Chapter 312. Issuance of this registration is not acknowledgement by the TCEQ that your operation is in full compliance with the rules and regulations of the TCEQ. Changes or additions referred to this notice require written notification to the TCEQ. Please keep a copy of this registration in every vehicle transporting sludge and all locations where business is being transacted under this registration.

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

K Keel

For the Commission

Print Date: January 29, 2025

Disposal Facility Information

Facility ID	Waste Type	Facility Name	Program
1273A	WT	CITY OF BROWNSVILLE MUNICIPAL LANDFILL	MSWDISP
WQ0010397005	WW	ROBINDALE WWTP	WWPERMIT

Waste Types

DS - Septic Tank Waste
GS - Grease Trap Waste
GT - Grit Trap Waste
PP - Chemical Toilet Waste
WT - Water Treatment Residuals
WW- Sewage Sludge/Biosolids

Texas Commission on Environmental Quality

SLUDGE TRANSPORTER

Registration Number: 23018 **CN601658651** **RN103164091**

Print Date: January 29, 2025

For the Commission

Vehicle Information

License Plate	Year	Vehicle Make	Sticker Issued	Vehicle Capacity
1343825	2019	FREIGHTLINER	07/30/2012	16 CY
1347387	2013	PETERBILT	01/03/2013	18 CY
1347389	2013	PETERBILT	01/03/2013	18 CY
1347388	2013	PETERBILT	01/03/2013	18 CY
1135376	2012	PETERBILT	11/02/2015	18 CY
1157417	2013	PETERBILT	11/02/2015	18 CY
1157418	2013	PETERBILT	11/02/2015	18 CY
1157419	2013	PETERBILT	11/02/2015	18 CY
1366869	2014	PETERBILT	11/02/2015	18 CY
1559537	2015	FREIGHTLINER	09/30/2016	16 CY
1347443	2017	FREIGHTLINER	04/03/2017	9 CY
1347444	2017	FREIGHTLINER	04/24/2017	9 CY
1369669	2018	FREIGHTLINER	03/21/2018	9 CY
1343787	2019	FREIGHTLINER 114SD	05/11/2018	18 CY
1343786	2019	FREIGHTLINER	06/08/2018	18 CY
1559534	2019	FREIGHTLINER	08/13/2018	16 CY
1343816	2019	FREIGHTLINER	08/13/2018	16 CY
1369727	2019	FREIGHTLINER	10/17/2019	500 GAL
1369760	2019	FREIGHTLINER	10/31/2019	20 CY
1469430	2022	FREIGHTLINER	04/06/2022	9 CY
1469502	2023	FREIGHTLINER	09/19/2022	
1559533	2025	FREIGHTLINER	07/23/2024	18 CY
1559532	2025	FREIGHTLINER	07/23/2024	18 CY
1559638	2025	FREIGHTLINER	11/13/2024	

*UOM - Units of Measure

Technical Report 1.0

ATTACHMENT K (page 8 and page 18)

Stormwater Certificate TXR05AL36 and WW Reuse Authorization
R10397-005

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Texas Pollutant Discharge Elimination System
Stormwater Multi-Sector General Permit

The Notice of Intent (NOI) for the facility listed below was received on November 4, 2021. The intent to discharge stormwater associated with industrial activity under the terms and conditions imposed by the Texas Pollutant Discharge Elimination System (TPDES) stormwater Multi-Sector General Permit (MSGP) TXR050000 is acknowledged. Your facility's unique TPDES MSGP stormwater authorization number is:

TXR05AL36

Coverage Effective: October 26, 2011
Sector: T Primary SIC code: 4952

TCEQ's stormwater MSGP requires certain stormwater pollution prevention and control measures, possible monitoring and reporting, and periodic inspections. Among the conditions and requirements of this permit, you must have prepared and implemented a stormwater pollution prevention plan (SWP3) that is tailored to your industrial site. As a facility authorized to discharge under the stormwater MSGP, all terms and conditions must be complied with to maintain coverage and avoid possible penalties.

Facility/Site Information:
RN102180205
Brownsville Pub Robindale Wwtp
3208 Robindale Rd 0.5 Mi N FM 802 On Robindale Rd
Brownsville, TX 78521
Cameron County

Operator:
CN603752932
Brownsville Public Utilities Board
PO BOX 3207
Brownsville, TX 78523

The MSGP and all authorizations expire on August 14, 2026, unless otherwise amended. If you have any questions related to your application, you may contact the Stormwater Processing Center by email at SWPERMIT@tceq.texas.gov or by telephone at (512) 239-3700. For technical issues, you may contact the stormwater technical staff by email at SWGP@tceq.texas.gov or by telephone at (512) 239-4671. Also, you may obtain information on the TCEQ web site at https://www.tceq.texas.gov/goto/wq-dpa. A copy of this document should be kept with your SWP3.

Issued Date: November 04, 2021

FOR THE COMMISSION

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

RECEIVED
DEC 11 2013
By

November 26, 2013

Mr. Juan R. Carrizales, Regulatory Compliance Specialist
Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

Re: Brownsville Public Utilities Board
Reuse Authorization Nos. R10397-003 & R10397-005
Cameron County
CN603752932, RN102179926 RN102180205

Dear Carrizales:

The Texas Commission on Environmental Quality has completed its review of the applications for the above referenced authorizations. The authorizations allow the reuse of Type I and Type II wastewater effluent from the Southside and Northside Wastewater Treatment Facilities.

Notify this office and the appropriate regional office at least 30 days before reclaimed water is distributed. If the plans and specifications for the project(s) have been approved, the authorization(s) will be activated and the facility will be issued monthly effluent report (MER) forms for reporting quality and quantity of reclaimed water used. See Requirement V (b) on page 8 of the attached authorizations.

Thank you for your cooperation during this review process. If you have any questions, please contact Louis C. Herrin, III of my staff at louis.herrin@tceq.texas.gov or (512) 239-4552.

Sincerely,

Chris Linendoll, E.I.T., Manager
Wastewater Permitting Section
Water Quality Division

CL/LCHIII/sw

AUTHORIZATION FOR RECLAIMED WATER

Authorization No. R10397-005

Producer: Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

Provider: Brownsville Public Utilities Board
P.O. Box 3270
Brownsville, Texas 78523

User: Any user within the service area authorized by the provider

Location: The wastewater treatment facility is located at 3208 Robindale Road, Cameron County, Texas.

Authorization: Type I and Type II reclaimed water from Brownsville Public Utilities Board Robindale Wastewater Treatment Facility (TPDES Permit No. WQ0010397005) to be used as for Type I irrigation of landscape, public parks, schoolyards, athletic fields, golf courses, food crops; fire protection; maintenance of off channel water bodies; toilet or urinal flush water; Type II irrigation of sod farms, limited access highway rights of way, golf courses, cemeteries, and landscaped areas surrounding commercial or industrial complexes; maintenance of impoundments or off channel water bodies; soil compaction or dust control; and cooling tower makeup water. The service area is shown in Section XI, Service Area Map.

This authorization contains the conditions that apply for the use of reclaimed water. The approval of reclaimed water use under Chapter 210 does not affect any existing water rights. If applicable, a reclaimed water use authorization in no way affects the need of a producer, provider, or user to obtain a separate water right authorization from the commission. This authorization does not allow irrigation of any area authorized for irrigation under a Texas Land Application Permit.

Issue Date: November 26, 2013

Zak Covar, Executive Director

I. General Requirements

A. No producer or provider may transfer reclaimed water to a user without first notifying the commission.

B. Reuse of untreated wastewater is prohibited.

C. Food crops that may be consumed raw by humans must not be spray irrigated. Food crops including orchard crops that will be substantially processed prior to human consumption may be spray irrigated. Other types of irrigation that avoid contact of reclaimed water with edible portions of food crops are acceptable.

D. There must be no nuisance conditions resulting from the distribution, the use, or storage of reclaimed water.

E. Reclaimed water must not be used in a way that degrades groundwater quality to a degree adversely affecting its actual or potential uses.

F. Reclaimed water stored in ponds must be prevented from discharging into waters in the state, except for discharges directly resulting from rainfall events or in accordance with a permit issued by the commission. All other discharges are unauthorized.

G. If an overflow of a holding pond occurs causing discharge into or adjacent to water in the state, the user or provider, as appropriate, shall report the noncompliance. A written submission of pertinent information must be provided to the TCEQ Region 15 office in Harlingen and to the TCEQ Enforcement Division (MC-149) in Austin, within five (5) working days after becoming aware of the overflow. The submission must contain:

1. a description of the noncompliance and its cause;
2. the potential danger to human health or safety, or the environment;
3. the period of noncompliance, including exact dates and times;
4. if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
5. steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

H. Unless otherwise provided in this authorization, there must be no off-site discharge, either airborne or surface runoff of reclaimed water from the user's property except to a wastewater treatment collection system or wastewater treatment facility unless the reclaimed water user applies for and obtains a permit from the commission that authorizes discharge of the water.

I. All reclaimed water piping must be separated from potable water piping when trenched by a distance of at least nine feet for Type II effluent and four feet For Type I. All buried pipe must be manufactured in purple, painted purple, taped with purple metallic tape or bagged in purple. All exposed piping, hose bibs and faucets must be painted purple, designed to prevent connection to a standard water hose, and stenciled with a warning reading "NON-POTABLE WATER."

J. The design of any new distribution system that will convey reclaimed water to a user requires the approval of the executive director. Materials must be submitted to the executive director in accordance with the Texas Engineering Practice Act (Article 3271a, Vernon's Annotated Texas Statutes). The plans and specifications for any new

distribution system constructed pursuant to this authorization must be approved by the executive director. Failure to secure approval before commencing construction or making a transfer of reclaimed water is a violation of this authorization. Each day of a transfer is a separate violation until approval has been secured.

K. Nothing in this authorization modifies any requirements in 30 TAC Chapter 290, Public Drinking Water.

L. A major change from a prior notification for use of reclaimed water must be approved by the executive director before it can be implemented. A major change includes:

1. a change in the boundary of the approved service area, not including the conversion of individual lots within a subdivision to reclaimed water use;
2. the addition of a new provider;
3. a major change in the intended use, such as conversion from irrigation of a golf course to residential irrigation; or
4. a change from either Type I or Type II use to the other.

M. The reclaimed water producer, provider, and user shall maintain current operation and maintenance plans on the sites over which they have operational control. The operation and maintenance plan must contain the following, as a minimum:

1. a copy of the signed contract between the user and provider and a copy of the signed contract between the provider and the producer, as applicable;
2. a labeling and separation plan for the prevention of cross connections between reclaimed water distribution lines and potable water lines;
3. the measures that will be implemented to prevent unauthorized access to reclaimed water facilities (e.g., secured valves);
4. procedures for monitoring reclaimed water;
5. a plan for how reclaimed water use will be scheduled to minimize the risk of inadvertent human exposure;
6. schedules for routine maintenance;
7. a plan for worker training and safety; and
8. contingency plan for system failure or upsets.

N. One of the following requirements must be met by the user or provider, for any area where reclaimed water is stored or where there are hose bibs or faucets:

1. Signs having a minimum size of eight inches by eight inches must be posted at all storage areas and on all hose bibs and faucets reading, in both English and Spanish, "Reclaimed Water, Do Not Drink" or similar warning.
2. The area must be secured to prevent access by the public.

O. Where a reclaimed water line parallels a sewer line, the reclaimed water line must be constructed in accordance with subsection (p) or (q) of this section. The horizontal separation distance must be three feet (outside to outside) with the reclaimed water line at the level of or above the sewer line. Reclaimed water lines that parallel sewer lines may be placed in the same benched trench. Where a reclaimed water line crosses a sewer line,

the requirement of 30 TAC §290.44(e)(4)(B), Water Line Installation—crossing lines, must be followed with the reclaimed water line substituted for the water line.

P. Reclaimed water pipes must meet the following requirements:

1. Lines that transport reclaimed water under pressure must be sized according to acceptable engineering practices for the needs of the reclaimed water users.
2. Reclaimed water force mains must have an expected life of at least as long as that of the associated lift station and must be suitable for the reclaimed water being pumped and operating pressure to which it will be subjected.
3. Pipes must be identified in the technical specifications with appropriate American Society for Testing and Materials, American National Standard Institute, or American Water Works Association standard numbers for both quality control (dimensions, tolerance, and installation such as bedding or backfill).
4. Pipes and fittings must have a minimum working pressure rating of 150 pounds per square inch.
5. Final plans and specifications must describe required pressure testing for all installed reclaimed water force mains.
6. Minimum test pressure must be 1.5 times the maximum design pressure. Allowable leakage rates must be determined as described in 30 TAC §217.97, Pressure Sewer Systems.
7. Gravity flow reclaimed water lines must meet the requirements of 30 TAC Chapter 217, Subchapter C, Conventional Collection Systems. The provider shall prevent high velocity scouring and maintain adequate fluid velocity to prevent the deposition of solids in the lines.

Q. All exposed piping and piping within a building must be either purple pipe or painted purple. All exposed piping should be stenciled in white with a warning reading "NON-POTABLE WATER". All exposed or buried reclaimed water piping constructed at a wastewater treatment facility is exempt from the color-coding requirement of this section.

R. When applicable, in accordance with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems, the design of the distribution systems that will convey reclaimed water to a user must be submitted to the executive director and must receive an approval before the distribution system may be constructed. The design of the distribution systems must meet the criteria of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. When a municipality is the plan review authority for certain sewer systems that transport primarily domestic waste, in lieu of the commission, design submittal will not be subject to submittal to the commission and instead must be approved by the municipality.

S. All ground level and elevated storage tanks must be designed, installed, and constructed in accordance with current AWWA standards with reference to materials to be used and construction practices to be followed, except for health-based standards strictly related to potable water storage and contact practices, where appropriately less restrictive standards may be applied.

II. Storage Requirements for Reclaimed Water

A. Storage facilities for retaining reclaimed water prior to use must not be located within a floodway.

B. Storage ponds must be hydraulically separated from waters in the state.

C. Any holding pond designed to contain Type I effluent and Type II effluent that is located within a DRASTIC Pollution Potential Index Zone of less than 110, shall conform to the following requirements:

1. Ponds with an earthen liner must meet the following requirements
   a. A permeability of less than 1×10^{-4} cm/sec;
   b. The ponds must be designed and constructed to prevent groundwater contamination;
   c. Soils used for pond lining must be free from foreign material such as paper, brush, trees, and large rocks; and
   d. All soil liners must be of compacted material, at least 24 inches thick, compacted in lifts no greater than 6 inches thick and compacted to 95% of Standard Proctor Density;
   e. Soil liners must meet the following particle size gradation and Atterberg limits:
      i. 30% or more passing a number 200 mesh sieve; and
      ii. a liquid limit of 30% or greater; and
      iii. a plasticity index of 15 or greater;
   f. In situ liners at least 24 inches thick meeting a permeability less than or equal to 1×10^{-4} cm/sec are acceptable alternatives; In-situ clay soils meeting the soils liner requirements must be excavated and re-compacted a minimum of 6 inches below planned grade to assure a uniformly compacted finished surface.

D. Synthetic membrane linings must have a minimum thickness of 40 mils and have a leak detection system;

E. Certification by a Texas licensed professional engineer must be furnished stating that the pond liner meets the appropriate criteria prior to use of the facilities;

F. Soil embankment walls must have a top width of at least five feet. The interior and exterior slopes of soil embankment walls must be no steeper than one foot vertical to three feet horizontal unless alternate methods of slope stabilization are used. All soil embankment walls must be protected by a vegetative cover or other stabilizing material to prevent erosion. Erosion stops and water seals must be installed on all pipe penetrating the embankments; and

G. An alternative method of pond lining that provides equivalent or better water quality protection than provided under this section may be utilized with the prior approval of the executive director; and

H. Reclaimed water may be stored in leak-proof, fabricated tanks;

I. Subsequent holding ponds utilized for the receipt and storage of reclaimed water of a quality that could cause or causes a violation of a surface water quality standard or

impairment of groundwater for its actual or intended use will be also subject to the storage requirements of this section.

III. Specific Uses and Quality Standards for Reclaimed Water

A. Numerical parameter limits pertaining to specific reclaimed water use categories are contained in this section. These limits apply to reclaimed water before discharge to initial holding ponds or a reclaimed water distribution system.

B. The reclaimed water producer shall establish that the reclaimed water meets the quality limits at the sample point for the intended use in accordance with the monitoring requirements identified in Section IV, Sampling and Analysis.

C. Types and quality standards for reclaimed water.

1. Type I Reclaimed Water Use. The use of Type I reclaimed water is for situations where the public may come in contact with the reclaimed water. The uses allowed by this authorization are:

   a. Irrigation: landscape, public parks, schoolyards, athletic fields, golf courses, and food crops

   b. Fire protection

   c. Maintenance of any off channel water bodies where recreational activities, such as wading or fishing, are anticipated even though the water body was not specifically designed for such a use.

   d. Toilet or urinal flush water.

   e. Type I reclaimed water may also be used for any of the authorized Type II uses.

2. The following conditions apply to Type I use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality as described for Type I reclaimed water use. Type I reclaimed water on a 30-day average must have a quality of no more than:

Table 1. Type I Quality Requirements

Parameter	Limit	Limit Type
Turbidity	3 NTUs	30-day average
BOD_5	5 mg/l	30-day average
E. coli	20/100 ml	30-day geometric mean (MPN or CFU)
E. coli	75/100 ml	maximum single grab sample (MPN or CFU)

3. Type II Reclaimed Water Use. The use of Type II reclaimed water is for situations where the public will not be exposed to the reclaimed water. The uses allowed by this authorization are:

a. Irrigation of sod farms, limited access highway rights of way, golf courses, cemeteries, and landscaped areas surrounding commercial or industrial complexes.
b. Maintenance of off channel water bodies where direct human contact is not likely.
c. Soil compaction or dust control in construction areas where application procedures minimize aerosol drift to public areas.
d. Cooling tower makeup water.

4. The following conditions apply to Type II use of reclaimed water. At a minimum, the reclaimed water producer shall transfer only reclaimed water of the following quality. Type II reclaimed water on a 30-day average must have a quality of no more than:

Table 2. Type II Quality Requirements

Parameter	Limit	Limit Type
BOD_5	20 mg/l	30-day average
E. coli	200/100 ml	30-day geometric mean (MPN or CFU)
E. coli	800/100 ml	maximum single grab sample (MPN or CFU)

D. Test Procedures

1. Test procedures for the analysis of pollutants must comply with procedures specified in 30 TAC §§319.11 - 319.12. Measurements, tests, and calculations must accurately represent the reclaimed water.

2. All laboratory tests submitted to demonstrate compliance with this authorization must meet the requirements of 30 TAC Chapter 25, *Environmental Testing Laboratory Accreditation and Certification.*

IV. Sampling and Analysis

A. The reclaimed water producer shall sample the reclaimed water prior to distribution to the entity that first received the reclaimed water after it leaves the wastewater treatment facility (provider or user) to assure that the water quality meets the standard for the contracted use.

B. Analytical methods must be in compliance with 30 TAC Chapter 319, *Monitoring and Reporting.*

C. The minimum sampling and analysis frequency for Type I reclaimed water is twice per week when reclaimed water is being produced and shall be reported as outfall 800.

D. The minimum sampling and analysis frequency for Type II reclaimed water is once per week when reclaimed water is being produced and shall be reported as outfall 900.

E. The monitoring must be done after the final treatment unit.

F. The records of the monitoring must be kept on a monthly basis and be available at the facility site for inspection by representatives of the Commission for at least five years.

V. Record Keeping and Reporting

A. The reclaimed water provider and user shall maintain records on site for a period of at least five years.

B. The producer shall maintain the following records:

1. copies of notifications made to the commission concerning reclaimed water projects;

2. as applicable, copies of contracts with each reclaimed water user (this requirement does not include reclaimed water users at residences that have separate distribution lines for potable water);

3. records of the volume of water delivered to each reclaimed water user per delivery (this requirement does not apply to reclaimed water users at residences that have separate distribution lines for potable water); and

4. reclaimed water quality analyses.

C. The reclaimed water producer shall report to the commission on a monthly basis the following information on forms furnished by the executive director. The reports are due by the 20th day of the month following the reporting period.

1. volume of reclaimed water delivered to each user; and

2. quality of reclaimed water delivered to a user or provider reported as a monthly average for each quality criteria, except those listed as "not to exceed" that must be reported as individual analyses.

D. Monitoring requirements contained in the authorization are suspended from the effective date of the authorization until the reclaimed water is transferred. The provider shall provide written notice to the Water Quality Application Team (MC 148) and the appropriate TCEQ regional office at least thirty (30) days prior to transfer of reclaimed water.

VI. Transfer of Reclaimed Water

A. Reclaimed water must transferred from a provider to a user on a demand only basis. A reclaimed water user may refuse delivery of reclaimed water at any time.

B. All reclaimed water transferred to a user must be of at least the quality specified in Section IV, *Sampling and Analysis*.

C. Transfer must be by pipes or tank trucks.

D. The transfer of reclaimed water must be terminated immediately if a provider becomes aware of the misuse of the reclaimed water by the user, regardless of contract provisions.

VII. Restrictions

A. This authorization does not convey any property right and does not grant any exclusive privilege.

B. This authorization does not allow the use of reclaimed water on land that is authorize as a disposal site under either a Texas Pollutant Discharge Elimination System (TPDES) permit or a Texas Land Application Permit (TLAP).

VIII. Responsibilities and Contracts

A. The producer of reclaimed water is not liable for misapplication of reclaimed water by users, except as provided in this section. Both the reclaimed water provider and user

have at least but are not limited to the following responsibilities:

1. The reclaimed water producer shall: transfer reclaimed water of at least the minimum quality required by this chapter at the point of delivery to the user;
   a. sample and analyze the reclaimed water and report the analyses in accordance with Section IV, Sampling and Analysis, and Section V, Recordkeeping and Reporting; and
   b. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director.
2. The reclaimed water provider shall:
   a. ensure construction of reclaimed water distribution systems in accordance with 30 TAC Chapter 217, Design of Domestic Wastewater Systems, and in accordance with approved plans and specifications;
   b. transfer reclaimed water of at least the minimum quality required by this authorization at the point of delivery to the user;
   c. notify the executive director in writing within five (5) days after obtaining knowledge of reclaimed water use not authorized by the executive director; and
   d. not be found in violation of this chapter for the misuse of the reclaimed water by the user if transfer of such water is shut off promptly upon knowledge of misuse regardless of contract provisions.
3. The reclaimed water user shall:
   a. use the reclaimed water in accordance with this authorization; and
   b. maintain and provide records as required by Section V, Record Keeping and Reporting.

IX. Enforcement

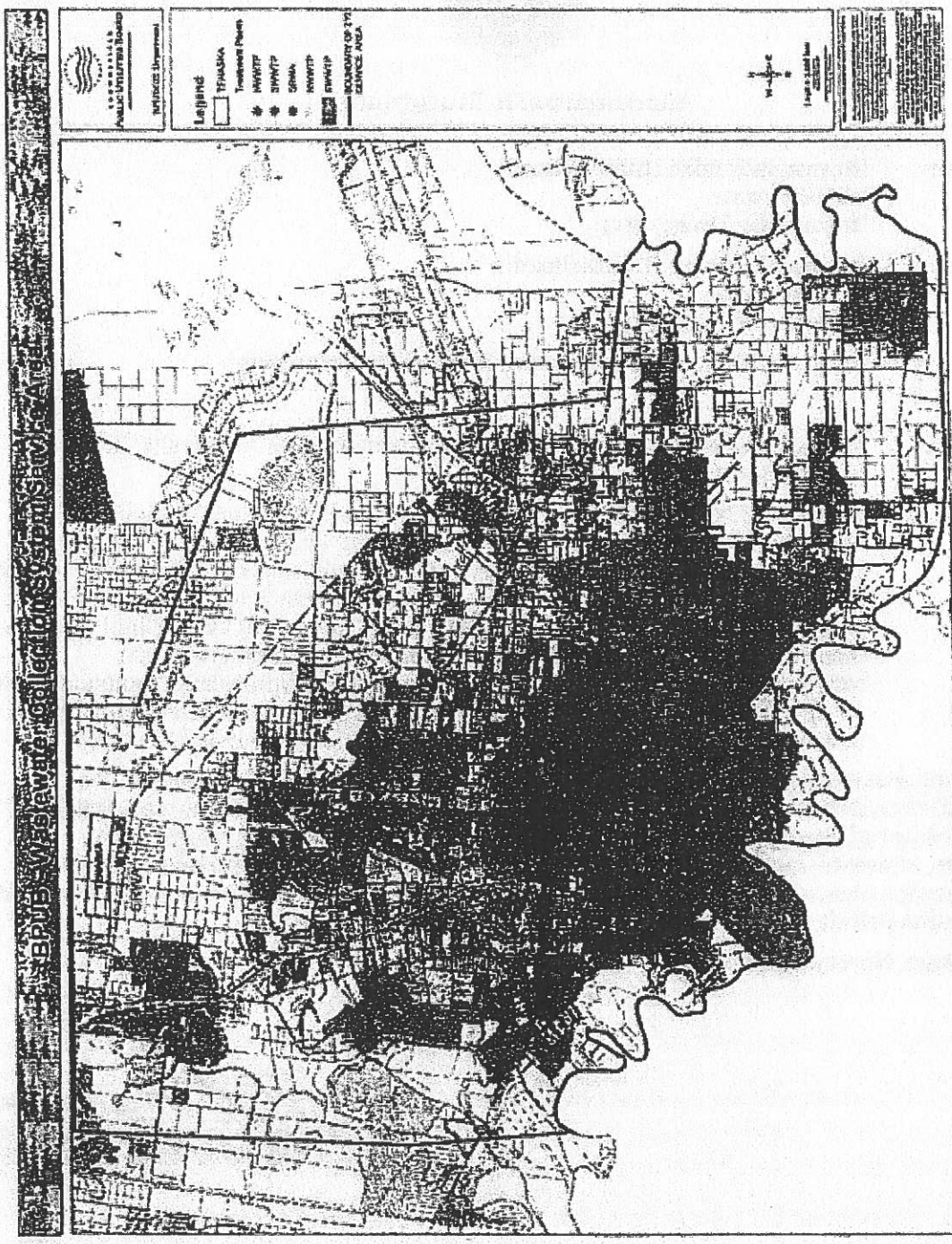
If the producer, provider, or user fail to comply with the terms of this authorization, the executive director may take enforcement action provided by the Texas Water Code §26.019 and §26.0136.

X. Standard Provisions

A. This authorization is granted in accordance with the rules and orders of the commission and the laws of the state of Texas.

B. Acceptance of this authorization constitutes an acknowledgment and agreement that the producer, provider and user will comply with all the terms, provisions, conditions, limitations and restrictions embodied in this authorization and with the rules and other orders of the commission and the laws of the state of Texas. Agreement is a condition precedent to the granting of this authorization.

XI. Service Area Map



Technical Report 1.1 - Worksheet 4.0

ATTACHMENT L (page 12 and page 46)

Analytical Lab Reports

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

March 11, 2025

Mr. Gabriel Coronado
Brownsville Public Utilities Board Analytical Laboratory
1385 PUB Drive
Brownsville, TX 78521-3270

Subject: Texas NELAP accreditation renewal

Dear Mr. Coronado:

I am pleased to advise you the Texas Commission on Environmental Quality is renewing your laboratory's NELAP accreditation. The accreditation is valid until the expiration date on the certificate and scope, contingent on continued compliance with the standards for accreditation and requirements of the state of Texas.

I am enclosing an accreditation certificate and listing of your laboratory's fields of accreditation. Please review the enclosures for accuracy and completeness.

Please contact me at frank.jamison@tceq.texas.gov if I can provide any additional information or assistance.

Sincerely,

Frank Jamison
Data and Records Specialist

Enclosures

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Brownsville Public Utilities Board Analytical Laboratory

1385 PUB Drive,
Brownsville, TX 78521-3270

State Lab ID: T104704357
Effective Date: 04/01/2025
Expiration Date: 03/31/2026
Certificate ID: TX-C25-00073

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 04/01/2025

Laboratory Fields of Accreditation

Matrix	Method	Method Code	Analyte	Analyte Code	AB
DW	EPA 120.1	10006403	Conductivity	1610	TX
DW	EPA 130.2	10007202	Total hardness as CaCO3	1755	TX
DW	EPA 300.1	10275602	Chlorite	1595	TX
DW	SM 9215 B	20180001	Heterotrophic plate count	2555	TX
DW	SM 9223 B (Colilert Quanti-Tray)	20211603	Escherichia coli (E. coli)	2525	TX
DW	SM 9223 B (Colilert Quanti-Tray)	20211603	Total coliforms	2500	TX
DW	SM 9223 B (Colilert)	20212413	Total coliforms and E. coli (P/A)	2502	TX
DW	SM 9223 B (Colilert-18)	20214602	Escherichia coli (E. coli)	2525	TX
DW	SM 9223 B (Colilert-18)	20214602	Total coliforms	2500	TX
DW	SM 9223 B (Colilert-18)	20214602	Total coliforms and E. coli (P/A)	2502	TX
NPW	Enterolert	60030208	Enterococci	2520	TX
NPW	EPA 160.2	10009606	Residue-nonfilterable (TSS)	1960	TX
NPW	EPA 160.3	10010001	Residue-total (TS)	1950	TX
NPW	EPA 160.4	10010409	Residue-volatile	1970	TX
NPW	EPA 180.1	10011606	Turbidity	2055	TX
NPW	EPA 330.5	10059606	Total Residual Chlorine	1940	TX
NPW	EPA 350.3	10064401	Ammonia as N	1515	TX
NPW	SM 2510 B	20048004	Conductivity	1610	TX
NPW	SM 2540 B	20004608	Residue-total (TS)	1950	TX
NPW	SM 2540 C	20049803	Residue-filterable (TDS)	1955	TX
NPW	SM 2540 D	20004802	Residue-nonfilterable (TSS)	1960	TX
NPW	SM 4500-Cl G	20020604	Total Residual Chlorine	1940	TX
NPW	SM 4500-H+ B	20104603	pH	1900	TX
NPW	SM 4500-NH3 D	20108809	Ammonia as N	1515	TX
NPW	SM 5210 B	20027401	Biochemical Oxygen Demand (BOD)	1530	TX
NPW	SM 5210 B	20027401	Carbonaceous BOD (CBOD)	1555	TX
NPW	SM 9221 E plus C	20195806	Fecal coliforms	2530	TX
NPW	SM 9223 B (Colilert Quanti-Tray)	20211205	Escherichia coli (E. coli)	2525	TX

Non-contiguous location:

1385 PUB Drive
Brownsville, TX 78520-3270

2800 East University Boulevard
Brownsville, TX 78521

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Approved Drinking Water Laboratory

The following laboratory is currently approved for the Drinking Water analytes listed. If a change occurs to the methods, instruments or analytes tested, please submit a new form. For questions related to the approval please call (512) 239-4691.

Brownsville PUB - Analytical Laboratory

Vicente Guerrero III
1385 PUB Dr.
Brownsville, TX 78520

Lab ID: **48116**
Accreditation ID: T104704357

Approval Date: **12/23/2022**
Phone Number: 956-983-6355
Fax Number: (956) 983-6359

Analyte	Method	Valid Until
Alkalinity	2320B	12/23/2025
Calcium	3500-CA B	12/23/2025
Chlorine Dioxide	4500CLO2-E	12/23/2025
Conductivity	2510B	12/23/2025
Free Chlorine	4500CL-G	12/23/2025
pH	4500H-B	12/23/2025
POE Chlorite	4500CLO2-E	12/23/2025
Temperature	2550	12/23/2025
TOC	5310B	12/23/2025
Total Chlorine	4500CL-G	12/23/2025
Turbidity	2130B	12/23/2025
UV254	5910B	12/23/2025

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1126302

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Printed 12/12/2024
10:38

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1126302_r10_05_ProjectQC	SPL Kilgore Project P:1126302 C:PUB6 Project Quality Control Groups	34
1126302_r99_09_CoC__1_of_2	SPL Kilgore CoC PUB6 1126302_1_of_2	10
1126302_r99_09_CoC__2_of_2	SPL Kilgore CoC PUB6 1126302_2_of_2	2
	Total Pages:	66

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

Project
1126302

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Sample	Sample ID	Taken	Time	Received
2357077	*ROBINDALE WWTP Permit Renewal*	11/20/2024	12:00:00	11/21/2024

Bottle 01 Amber 32 Oz
Bottle 02 Amber 32 Oz
Bottle 03 Amber 32 Oz
Bottle 04 Amber 32 Oz
Bottle 05 Amber 32 Oz
Bottle 06 Amber 32 Oz
Bottle 07 Amber 32 Oz
Bottle 08 Amber 32 Oz
Bottle 09 Amber 32 Oz
Bottle 10 Amber 32 Oz
Bottle 11 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 12 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 13 16 oz HNO3 Metals Plastic
Bottle 14 Cr+6 Preserved 250 Polyethylene
Bottle 15 Client supplied HCl Clean Metals Bottle
Bottle 16 Prepared Bottle: 2 mL Autosampler Vial (Batch 1148986) Volume: 1.00000 mL <== Derived from 01 (988 ml)
Bottle 17 Prepared Bottle: Mercury Preparation for Metals (Batch 1149203) Volume: 50.00000 mL <== Derived from 15 (47 ml)
Bottle 18 Prepared Bottle: ICP Preparation for Metals (Batch 1149442) Volume: 50.00000 mL <== Derived from 13 (50 ml)
Bottle 19 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1149461) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 20 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1149462) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 21 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1149463) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 22 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1149464) Volume: 1.00000 mL <== Derived from 03 (999 ml)
Bottle 23 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149479) Volume: 5.00000 mL <== Derived from 02 (980 ml)
Bottle 24 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149630) Volume: 1.00000 mL <== Derived from 04 (965 ml)
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149646) Volume: 10.00000 mL <== Derived from 05 (1006 ml)
Bottle 26 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149679) Volume: 1.00000 mL <== Derived from 11 (803 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	20	1149462	11/25/2024	1150009	11/26/2024
EPA 608.3	22	1149464	11/25/2024	1149931	11/26/2024
EPA 615	25	1149646	11/26/2024	1150042	11/27/2024
EPA 632	19	1149461	11/25/2024	1150275	11/27/2024
EPA 300.0 2.1	01	1149220	11/22/2024	1149220	11/22/2024
EPA 604.1	23	1149479	11/25/2024	1151420	12/10/2024
EPA 617	20	1149462	11/25/2024	1149957	11/26/2024
EPA 625.1	24	1149630	11/26/2024	1150158	11/27/2024
ASTM D7065-11	26	1149679	11/26/2024	1150300	12/02/2024
TX 1001	16	1148986	11/21/2024	1149585	11/25/2024
EPA 200.8 5.4	18	1149442	11/25/2024	1149779	11/26/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

1

SAMPLE CROSS REFERENCE

Project
1126302

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Sample	Sample ID	Taken	Time	Received
2357077	*ROBINDALE WWTP Permit Renewal*	11/20/2024	12:00:00	11/21/2024

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Bottle 07 Amber 32 Oz
Bottle 08 Amber 32 Oz
Bottle 09 Amber 32 Oz
Bottle 10 Amber 32 Oz
Bottle 11 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 12 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 13 16 oz HNO3 Metals Plastic
Bottle 14 Cr+6 Preserved 250 Polyethylene
Bottle 15 Client supplied HCl Clean Metals Bottle
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Bottle 24 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149630) Volume: 1.00000 mL <== Derived from 04 (965 ml)
Bottle 25 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149646) Volume: 10.00000 mL <== Derived from 05 (1006 ml)
Bottle 26 Prepared Bottle: 2 mL Autosampler Vial (Batch 1149679) Volume: 1.00000 mL <== Derived from 11 (803 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	18	1149442	11/25/2024	1149700	11/26/2024
EPA 245.7 2	17	1149203	11/22/2024	1149264	11/22/2024
Calculation			11/27/2024		11/27/2024
SM 3500-Cr B-2011	14	1149332	11/21/2024	1149332	11/21/2024
SM 3500-Cr B-2011		1149181	11/20/2024	1149181	11/20/2024
EPA 622	21	1149463	11/25/2024	1150821	12/02/2024

Sample	Sample ID	Taken	Time	Received
2357078	*ROBINDALE WWTP Permit Renewal*	11/20/2024	12:00:00	11/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

Project
1126302

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Polyethylene Quart
Bottle 03 8 oz Plastic H2SO4 pH < 2
Bottle 04 BOD Titration Beaker A (Batch 1149134) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 05 BOD Analytical Beaker B (Batch 1149134) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 06 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1149141) Volume: 20.00000 mL <== Derived from 03 (20 ml)
Bottle 07 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1149129) Volume: 6.00000 mL <== Derived from 03 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1149606	11/25/2024	1149606	11/25/2024
EPA 300.0 2.1	01	1149256	11/21/2024	1149256	11/21/2024
SM 2320 B-2011	02	1149811	11/26/2024	1149811	11/26/2024
SM 5210 B-2016 (TCMP Inhibitor)	01	1149134	11/27/2024	1149134	11/27/2024
SM 2510 B-2011	01	1149523	11/26/2024	1149523	11/26/2024
EPA 350.1 2	07	1149129	11/22/2024	1149518	11/25/2024
SM 2540 C-2015	02	1150150	11/26/2024	1150150	11/26/2024
EPA 351.2 2	06	1149141	11/22/2024	1149432	11/25/2024
SM 4500-P E-2011	03	1149490	11/25/2024	1149490	11/25/2024
SM 2540 D-2015	01	1149250	11/21/2024	1149250	11/21/2024

Sample	Sample ID	Taken	Time	Received
2357084	*ROBINDALE WWTP Permit*	11/20/2024	09:30:00	11/21/2024

Bottle 01 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 02 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 03 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 04 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 05 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 06 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 07 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 08 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 09 Bottle, QEC, 16oz Plastic U016 (100 ea)
Bottle 10 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 11 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 13 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 14 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 15 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 16 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 17 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1149200) Volume: 6.00000 mL <== Derived from 06 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	04	1149416	11/22/2024	1149416	11/22/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

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Sample	Sample ID	Taken	Time	Received
2357084	*ROBINDALE WWTP Permit*	11/20/2024	09:30:00	11/21/2024

Bottle 01 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 02 Na2S2O3 (6 mg)) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 03 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 04 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 05 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
Bottle 06 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
Bottle 07 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 08 NaOH to pH >12 Polyethylene 250 mL/amber
Bottle 09 Bottle, QEC, 16oz Plastic U016 (100 ea)
Bottle 10 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 11 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 12 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 13 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149138) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 14 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 15 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 16 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1149140) Volume: 10.00000 mL <== Derived from 07 (5 ml)
Bottle 17 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1149200) Volume: 6.00000 mL <== Derived from 06 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	04	1149420	11/22/2024	1149420	11/22/2024
SM 4500-CN¯ G-2016			11/26/2024		11/26/2024
SM 4500-CN¯ G-2016	14	1149140	11/22/2024	1149460	11/25/2024
SM 4500-CN¯ E-2016	11	1149138	11/22/2024	1149459	11/25/2024
SM 4500-O G-2016		1149000	11/20/2024	1149000	11/20/2024
EPA 1664B (HEM)	10	1150432	12/03/2024	1150432	12/03/2024
EPA 420.4 1	17	1149200	11/22/2024	1149743	11/27/2024
SM 2550 B - 2010		1149002	11/20/2024	1149002	11/20/2024
SM 4500-H+ B-2011		1149001	11/20/2024	1149001	11/20/2024

Sample	Sample ID	Taken	Time	Received
2357969	*ROLANDALE WWTP Permit Renewal*	11/21/2024	07:40:00	11/22/2024

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 4500-Cl G-2011		1149280	11/21/2024	1149280	11/21/2024
Subcontract			11/21/2024		11/21/2024

Email: Kilgore.ProjectManagement@spllabs.com

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RESULTS

Sample Results

2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 *Received:* 11/21/2024

Non-Potable Water *Collected by:* Client Public Utilities Boa *PO:* P2302002
Composite Stop 12:00 11/20/24 *Taken:* 11/20/2024 12:00:00

ASTM D7065-11 *Prepared:* 1149679 11/26/2024 15:30:00 *Analyzed* 1150300 12/02/2024 19:35:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Nonylphenol	<37.4	ug/L	37.4		25154-52-3	26

Calculation *Prepared:* 11/27/2024 08:19:07 *Calculated* 11/27/2024 08:19:07 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trivalent Chromium	<0.003	mg/L	0.003		16065-83-1	

EPA 200.8 5.4 *Prepared:* 1149442 11/25/2024 10:00:00 *Analyzed* 1149700 11/26/2024 13:43:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Aluminum, Total	0.00817	mg/L	0.00171		7429-90-5	18
NELAC	Antimony, Total	<0.00376	mg/L	0.00376		7440-36-0	18
NELAC	Barium, Total	0.0314	mg/L	0.001		7440-39-3	18
NELAC	Beryllium, Total	<0.0005	mg/L	0.0005		7440-41-7	18
NELAC	Cadmium, Total	<0.001	mg/L	0.001		7440-43-9	18
NELAC	Chromium, Total	<0.001	mg/L	0.001		7440-47-3	18
NELAC	Copper, Total	0.00308	mg/L	0.00155		7440-50-8	18
NELAC	Lead, Total	<0.0005	mg/L	0.0005		7439-92-1	18
NELAC	Nickel, Total	0.00247	mg/L	0.00112		7440-02-0	18
NELAC	Thallium, Total	<0.0005	mg/L	0.0005		7440-28-0	18
NELAC	Zinc, Total	0.0224	mg/L	0.001		7440-66-6	18

EPA 200.8 5.4 *Prepared:* 1149442 11/25/2024 10:00:00 *Analyzed* 1149779 11/26/2024 17:03:00 HLT

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Arsenic, Total	0.00185	mg/L	0.0005		7440-38-2	18
NELAC	Selenium, Total	0.0024	mg/L	0.002		7782-49-2	18
NELAC	Silver, Total	<0.0002	mg/L	0.0002		7440-22-4	18

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2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 245.7 2 Prepared: 1149203 11/22/2024 10:00:00 Analyzed 1149264 11/22/2024 13:45:00 MP1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Mercury, Total (low level)	<5.32	ng/L	5.32		7439-97-6	17

EPA 300.0 2.1 Prepared: 1149220 11/22/2024 06:28:00 Analyzed 1149220 11/22/2024 06:28:00 TTC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Fluoride	<0.500	mg/L	0.500			01

EPA 604.1 Prepared: 1149479 11/25/2024 15:00:00 Analyzed 1151420 12/10/2024 07:22:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Hexachlorophene	<2.55	ug/L	2.55		70-30-4	23

EPA 608.3 Prepared: 1149462 11/25/2024 14:00:00 Analyzed 1150009 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.010	ug/L	0.010		72-54-8	20
NELAC	4,4-DDE	<0.010	ug/L	0.010		72-55-9	20
NELAC	4,4-DDT	<0.010	ug/L	0.010	S	50-29-3	20
NELAC	Aldrin	<0.010	ug/L	0.010		309-00-2	20
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-84-6	20
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-85-7	20
NELAC	Chlordane	<0.200	ug/L	0.200		57-74-9	20
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.010	ug/L	0.010		319-86-8	20
NELAC	Dieldrin	<0.010	ug/L	0.010		60-57-1	20
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	20
NELAC	Endosulfan II (beta)	<0.010	ug/L	0.010		33213-65-9	20
NELAC	Endosulfan sulfate	<0.010	ug/L	0.010		1031-07-8	20
NELAC	Endrin	<0.010	ug/L	0.010		72-20-8	20
NELAC	Endrin aldehyde	<0.010	ug/L	0.010		7421-93-4	20
NELAC	Gamma-BHC(Lindane)	<0.010	ug/L	0.010		58-89-9	20
NELAC	Heptachlor	<0.010	ug/L	0.010	S	76-44-8	20
NELAC	Heptachlor epoxide	<0.010	ug/L	0.010		1024-57-3	20
NELAC	Toxaphene	<0.200	ug/L	0.200		8001-35-2	20

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2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 *Received:* 11/21/2024

Non-Potable Water *Collected by:* Client Public Utilities Boa *PO:* P2302002
Composite Stop 12:00 11/20/24 *Taken:* 11/20/2024 12:00:00

EPA 608.3 *Prepared:* 1149464 11/25/2024 14:00:00 *Analyzed* 1149931 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200	X	12674-11-2	22
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	22
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	22
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	22
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	22
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	22
NELAC	PCB-1260	<0.200	ug/L	0.200	X	11096-82-5	22
NELAC	PCB-1262	<0.200	ug/L	0.200		37324-23-5	22
NELAC	PCB-1268	<0.200	ug/L	0.200		11100-14-4	22

EPA 615 *Prepared:* 1149646 11/26/2024 14:40:00 *Analyzed* 1150042 11/27/2024 18:52:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	2,4 Dichlorophenoxyacetic acid	<0.497	ug/L	0.497	X	94-75-7	25
NELAC	2,4,5-TP (Silvex)	<0.298	ug/L	0.298		93-72-1	25

EPA 617 *Prepared:* 1149462 11/25/2024 14:00:00 *Analyzed* 1149957 11/26/2024 21:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Kelthane (Dicofol)	<0.0501	ug/L	0.0501	XS	115-32-2	20
z	Methoxychlor	<0.010	ug/L	0.010	S	72-43-5	20
z	Mirex	<0.010	ug/L	0.010		2385-85-5	20

EPA 622 *Prepared:* 1149463 11/25/2024 14:00:00 *Analyzed* 1150821 12/02/2024 20:36:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0501	ug/L	0.0501		86-50-0	21
NELAC	Chlorpyrifos	<0.050	ug/L	0.050		2921-88-2	21
NELAC	Demeton	<0.0501	ug/L	0.0501		8065-48-3	21
NELAC	Diazinon	<0.0501	ug/L	0.0501		333-41-5	21
NELAC	Malathion	<0.0501	ug/L	0.0501		121-75-5	21
NELAC	Parathion, ethyl	<0.0501	ug/L	0.0501		56-38-2	21
NELAC	Parathion, methyl	<0.050	ug/L	0.050	D	298-00-0	21

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Analyzed 1150158 11/27/2024 21:38:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<1.04	ug/L	1.04		95-94-3	24
NELAC	1,2,4-Trichlorobenzene	<1.04	ug/L	1.04		120-82-1	24
NELAC	1,2-Dichlorobenzene	<1.04	ug/L	1.04		95-50-1	24
NELAC	1,2-DPH (as azobenzene)	<1.04	ug/L	1.04		122-66-7	24
NELAC	1,3-Dichlorobenzene	<1.04	ug/L	1.04		541-73-1	24
NELAC	1,4-Dichlorobenzene	<1.04	ug/L	1.04		106-46-7	24
NELAC	2,4,5-Trichlorophenol	<1.04	ug/L	1.04		95-95-4	24
NELAC	2,4,6-Trichlorophenol	<1.04	ug/L	1.04		88-06-2	24
NELAC	2,4-Dichlorophenol	<1.04	ug/L	1.04		120-83-2	24
NELAC	2,4-Dimethylphenol	<2.49	ug/L	2.49		105-67-9	24
NELAC	2,4-Dinitrophenol	<9.33	ug/L	9.33		51-28-5	24
NELAC	2,4-Dinitrotoluene	<3.63	ug/L	3.63		121-14-2	24
NELAC	2,6-Dinitrotoluene	<1.04	ug/L	1.04		606-20-2	24
NELAC	2-Chloronaphthalene	<1.04	ug/L	1.04		91-58-7	24
NELAC	2-Chlorophenol	<1.04	ug/L	1.04		95-57-8	24
NELAC	2-Methylphenol (o-Cresol)	<5.39	ug/L	5.39		95-48-7	24
NELAC	2-Nitrophenol	<1.04	ug/L	1.04		88-75-5	24
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.42	ug/L	6.42		MEPH34	24
NELAC	3,3'-Dichlorobenzidine	<5.00	ug/L	5.00		91-94-1	24
NELAC	4,6-Dinitro-2-methylphenol	<8.29	ug/L	8.29		534-52-1	24
NELAC	4-Bromophenyl phenyl ether	<1.04	ug/L	1.04		101-55-3	24
NELAC	4-Chlorophenyl phenyl ethe	<1.04	ug/L	1.04		7005-72-3	24
NELAC	4-Nitrophenol	<1.04	ug/L	1.04		100-02-7	24
NELAC	Acenaphthene	<1.04	ug/L	1.04		83-32-9	24
NELAC	Acenaphthylene	<1.04	ug/L	1.04		208-96-8	24
z	Aniline	<1.04	ug/L	1.04	S	62-53-3	24
NELAC	Anthracene	<1.04	ug/L	1.04		120-12-7	24
NELAC	Benzidine	<20.7	ug/L	20.7		92-87-5	24
NELAC	Benzo(a)anthracene	<1.04	ug/L	1.04		56-55-3	24
NELAC	Benzo(a)pyrene	<1.04	ug/L	1.04		50-32-8	24
NELAC	Benzo(b)fluoranthene	<1.04	ug/L	1.04		205-99-2	24
NELAC	Benzo(ghi)perylene	<1.04	ug/L	1.04		191-24-2	24
NELAC	Benzo(k)fluoranthene	<1.04	ug/L	1.04		207-08-9	24
NELAC	Benzyl Butyl phthalate	<7.77	ug/L	7.77		85-68-7	24
NELAC	Bis(2-chloroethoxy)methane	<1.04	ug/L	1.04		111-91-1	24
NELAC	Bis(2-chloroethyl)ether	<1.04	ug/L	1.04		111-44-4	24

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2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Analyzed 1150158 11/27/2024 21:38:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Bis(2-chloroisopropyl)ether	<1.04	ug/L	1.04		108-60-1	24
NELAC	Bis(2-ethylhexyl)phthalate	<7.77	ug/L	7.77		117-81-7	24
NELAC	Chrysene (Benzo(a)phenanthrene)	<1.04	ug/L	1.04		218-01-9	24
NELAC	Dibenz(a,h)anthracene	<1.04	ug/L	1.04		53-70-3	24
NELAC	Diethyl phthalate	<5.91	ug/L	5.91		84-66-2	24
NELAC	Dimethyl phthalate	<4.97	ug/L	4.97		131-11-3	24
NELAC	Di-n-butylphthalate	<7.77	ug/L	7.77		84-74-2	24
NELAC	Di-n-octylphthalate	<1.04	ug/L	1.04		117-84-0	24
NELAC	Fluoranthene(Benzo(j,k)fluorene)	<1.04	ug/L	1.04		206-44-0	24
NELAC	Fluorene	<1.04	ug/L	1.04		86-73-7	24
NELAC	Hexachlorobenzene	<1.04	ug/L	1.04		118-74-1	24
NELAC	Hexachlorobutadiene	<1.04	ug/L	1.04		87-68-3	24
NELAC	Hexachlorocyclopentadiene	<9.33	ug/L	9.33		77-47-4	24
NELAC	Hexachloroethane	<1.04	ug/L	1.04		67-72-1	24
NELAC	Indeno(1,2,3-cd)pyrene	<1.04	ug/L	1.04		193-39-5	24
NELAC	Isophorone	<1.04	ug/L	1.04		78-59-1	24
NELAC	Naphthalene	<1.04	ug/L	1.04		91-20-3	24
NELAC	Nitrobenzene	<1.04	ug/L	1.04		98-95-3	24
NELAC	n-Nitrosodiethylamine	<1.04	ug/L	1.04		55-18-5	24
NELAC	N-Nitrosodimethylamine	<7.25	ug/L	7.25	X	62-75-9	24
NELAC	n-Nitroso-di-n-butylamine	<1.04	ug/L	1.04		924-16-3	24
NELAC	N-Nitrosodi-n-propylamine	<1.04	ug/L	1.04		621-64-7	24
NELAC	N-Nitrosodiphenylamine (as DPA	<1.04	ug/L	1.04		86-30-6	24
NELAC	p-Chloro-m-Cresol (4-Chloro-3-me	<2.49	ug/L	2.49		59-50-7	24
NELAC	Pentachlorobenzene	<1.04	ug/L	1.04		608-93-5	24
NELAC	Pentachlorophenol	<1.04	ug/L	1.04		87-86-5	24
NELAC	Phenanthrene	<1.04	ug/L	1.04		85-01-8	24
NELAC	Phenol	<1.55	ug/L	1.55		108-95-2	24
NELAC	Pyrene	<1.04	ug/L	1.04		129-00-0	24
NELAC	Pyridine	<5.60	ug/L	5.60		110-86-1	24

EPA 625.1 Prepared: 1149630 11/26/2024 13:40:00 Calculated 1150158 12/03/2024 11:25:19 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cresols Total	<6.42	ug/L	6.42		1319-77-3, etc.	24

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Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Project
1126302

Printed: 12/12/2024

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200

Received: 11/21/2024

Non-Potable Water — Collected by: Client — Public Utilities Boa — PO: P2302002
Composite Stop 12:00 11/20/24 — Taken: 11/20/2024 12:00:00

EPA 632 — Prepared: 1149461 11/25/2024 14:00:00 — Analyzed 1150275 11/27/2024 23:28:00 — BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Carbaryl (Sevin)	<2.50	ug/L	2.50		63-25-2	19
z	Diuron	<0.045	ug/L	0.045		330-54-1	19

SM 3500-Cr B-2011 — Prepared: 1149181 11/20/2024 14:30:00 — Analyzed 1149181 11/20/2024 14:30:00 — JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hex Cr, Field Preservation	Preserved	ug/L	3		18540-29-9	

SM 3500-Cr B-2011 — Prepared: 1149332 11/21/2024 14:00:00 — Analyzed 1149332 11/21/2024 14:00:00 — ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Hexavalent Chromium	<3.00	ug/L	3.00		18540-29-9	14

TX 1001 — Prepared: 1148986 11/21/2024 13:15:00 — Analyzed 1149585 11/25/2024 19:41:00 — DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Tributyltin hydride	<0.00709	ug/L	0.00709		688-73-3	16

2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200

Received: 11/21/2024

Non-Potable Water — Collected by: Client — Public Utilities Boa — PO: P2302002
Composite Stop 12:00 11/20/24 — Taken: 11/20/2024 12:00:00

EPA 300.0 2.1 — Prepared: 1149256 11/21/2024 14:52:00 — Analyzed 1149256 11/21/2024 14:52:00 — KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Nitrate-Nitrogen Total	11.8	mg/L	0.100		14797-55-8	01

EPA 300.0 2.1 — Prepared: 1149606 11/25/2024 10:06:00 — Analyzed 1149606 11/25/2024 10:06:00 — KLB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chloride	639	mg/L	30.0	P		01
NELAC	Sulfate	344	mg/L	30.0	P		01

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Printed: 12/12/2024

2357078 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

EPA 350.1 2 Prepared: 1149129 11/22/2024 06:40:57 Analyzed 1149518 11/25/2024 06:41:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Ammonia Nitrogen**	**0.348**	**mg/L**	0.020			07

EPA 351.2 2 Prepared: 1149141 11/22/2024 07:32:16 Analyzed 1149432 11/25/2024 08:43:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**0.351**	**mg/L**	0.050		**7727-37-9**	06

SM 2320 B-2011 Prepared: 1149811 11/26/2024 14:30:00 Analyzed 1149811 11/26/2024 14:30:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Alkalinity (as CaCO3)**	**101**	**mg/L**	1.00			02

SM 2510 B-2011 Prepared: 1149523 11/26/2024 06:55:00 Analyzed 1149523 11/26/2024 06:55:00 JMJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Lab Spec. Conductance at 25 C**	**3230**	**umhos/cm**				01

SM 2540 C-2015 Prepared: 1150150 11/26/2024 08:25:00 Analyzed 1150150 11/26/2024 08:25:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Dissolved Solids**	**1840**	**mg/L**	50.0			02

SM 2540 D-2015 Prepared: 1149250 11/21/2024 15:07:00 Analyzed 1149250 11/21/2024 15:07:00 SRJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Suspended Solids**	**2.30**	**mg/L**	2.00			01

SM 4500-P E-2011 Prepared: 1149490 11/25/2024 08:40:00 Analyzed 1149490 11/25/2024 08:40:00 PNR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Phosphorus (as P), total**	**4.05**	**mg/L**	0.600		**7723-14-0**	03

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2357078 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200

Received: 11/21/2024

Non-Potable Water Collected by: Client Public Utilities Boa PO: P2302002
Composite Stop 12:00 11/20/24 Taken: 11/20/2024 12:00:00

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1149134 11/22/2024 Analyzed 1149134 11/27/2024 11:26:38 ESN

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**BOD Carbonaceous**	**<2.00**	**mg/L**	2.00			01

2357084 ROBINDALE WWTP Permit

Received: 11/21/2024

Non-Potable Water Collected by: JMZ Public Utilities Boa PO: P2302002
Taken: 11/20/2024 09:30:00

Prepared: 1149003 11/20/2024 09:32:00 Analyzed 1149003 11/20/2024 09:32:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Cl2 Check for CNa**	**NEG**					

Prepared: 1149178 11/20/2024 09:33:00 Analyzed 1149178 11/20/2024 09:33:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Sulfide Check for CNa**	**neg**	**mg/L**				

EPA 1664B (HEM) Prepared: 1150432 12/03/2024 07:30:00 Analyzed 1150432 12/03/2024 07:30:00 TRC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Oil and Grease (HEM)**	**<4.82**	**mg/L**	4.82			10

EPA 420.4 1 Prepared: 1149200 11/22/2024 10:56:27 Analyzed 1149743 11/27/2024 05:57:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Phenolics, Total Recoverable**	**0.025**	**mg/L**	0.005			17

EPA 624.1 Prepared: 1149416 11/22/2024 14:56:00 Analyzed 1149416 11/22/2024 14:56:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Acrolein**	**<4.00**	**ug/L**	4.00	X	**107-02-8**	04
NELAC	**Acrylonitrile**	**<2.00**	**ug/L**	2.00		**107-13-1**	04

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2357084 **ROBINDALE WWTP Permit** Received: 11/21/2024

Non-Potable Water | Collected by: JMZ | Public Utilities Boa | PO: P2302002
Taken: 11/20/2024 09:30:00

EPA 624.1 Prepared: 1149420 11/22/2024 14:56:00 Analyzed 1149420 11/22/2024 14:56:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,1,1-Trichloroethane	<1.00	ug/L	1.00		71-55-6	04
NELAC	1,1,2,2-Tetrachloroethane	<2.00	ug/L	2.00		79-34-5	04
NELAC	1,1,2-Trichloroethane	<2.00	ug/L	2.00		79-00-5	04
NELAC	1,1-Dichloroethane	<1.00	ug/L	1.00		75-34-3	04
NELAC	1,1-Dichloroethylene	<1.00	ug/L	1.00		75-35-4	04
NELAC	1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	04
NELAC	1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	04
NELAC	1,2-Dichloropropane	<1.01	ug/L	1.01		78-87-5	04
NELAC	2-Chloroethylvinyl ether	<5.00	ug/L	5.00		110-75-8	04
NELAC	Benzene	<1.00	ug/L	1.00		71-43-2	04
NELAC	Bromodichloromethane	<1.00	ug/L	1.00		75-27-4	04
NELAC	Bromoform	<2.00	ug/L	2.00		75-25-2	04
NELAC	Bromomethane (Methyl Bromi	<1.01	ug/L	1.01		74-83-9	04
NELAC	Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	04
NELAC	Chlorobenzene	<1.00	ug/L	1.00		108-90-7	04
NELAC	Chloroethane	<5.00	ug/L	5.00		75-00-3	04
NELAC	Chloroform	<1.00	ug/L	1.00		67-66-3	04
NELAC	Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	04
NELAC	cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	04
NELAC	Dibromochloromethane	<1.00	ug/L	1.00		124-48- 1	04
NELAC	Dichloromethane	<2.00	ug/L	2.00		75-09-2	04
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	04
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	04
NELAC	Methyl ethyl ketone (Butanone)	<10.0	ug/L	10.0		78-93-3	04
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	04
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	04
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	04
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	04
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	04
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	04
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	04
NELAC	Vinyl chloride	<1.04	ug/L	1.04		75-01-4	04

EPA 624.1 Prepared: 1149420 11/25/2024 15:07:21 Calculated 1149420 11/25/2024 15:07:21 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes	<0.002	mg/L	0.002			04

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Public Utilities Board
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Brownsville, TX 78520-

Project
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Printed: 12/12/2024

2357084 ROBINDALE WWTP Permit

Received: 11/21/2024

Non-Potable Water | Collected by: JMZ | Public Utilities Boa | PO: P2302002
Taken: 11/20/2024 09:30:00

SM 2550 B - 2010 Prepared: 1149002 11/20/2024 09:35:00 Analyzed 1149002 11/20/2024 09:35:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Temperature (onsite)**	**28**	**Degrees C**	1			

SM 4500-CN⁻ E-2016 Prepared: 1149138 11/22/2024 07:26:34 Analyzed 1149459 11/25/2024 07:31:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**<0.005**	**mg/L**	0.005			11

SM 4500-CN⁻ G-2016 Prepared: 11/26/2024 09:13:08 Calculated 11/26/2024 09:13:08 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide - Available/Amenable**	**<0.005**	**mg/L**	0.005			

SM 4500-CN⁻ G-2016 Prepared: 1149140 11/22/2024 07:30:02 Analyzed 1149460 11/25/2024 07:31:00 MEG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide After Chlorination**	**<0.005**	**mg/L**	0.005	D		14

SM 4500-H+ B-2011 Prepared: 1149001 11/20/2024 09:30:00 Analyzed 1149001 11/20/2024 09:30:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**pH (Onsite)**	**7.0**	**SU**				

SM 4500-O G-2016 Prepared: 1149000 11/20/2024 09:40:00 Analyzed 1149000 11/20/2024 09:40:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Dissolved Oxygen Onsite**	**7.0**	**mg/L**	1.0			

2357969 ROLANDALE WWTP Permit Renewal

Received: 11/22/2024

Non-Potable Water | Collected by: JMZ | SPL Kilgore | PO: P2302002
Taken: 11/21/2024 07:40:00

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory

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Printed: 12/12/2024

2357969 ROLANDALE WWTP Permit Renewal — Received: 11/22/2024

Non-Potable Water — Collected by: JMZ — SPL Kilgore — PO: P2302002

Taken: 11/21/2024 07:40:00

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory

SM 4500-Cl G-2011 — Prepared: 1149280 11/21/2024 09:45:00 — Analyzed 1149280 11/21/2024 09:45:00 JMZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cl2 Res.,Total(Onsite)Spec Mid	<0.05	mg/L	0.05			

Subcontract — Prepared: 11/21/2024 14:12:00 — Analyzed 11/21/2024 14:12:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
MPN, E.coli, Coli-18 - WW sub	See Attached				CCWU	

Sample Preparation

2357077 ROBINDALE WWTP Permit Renewal COMP 11/19 1400 11/20 1200 — Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

Prepared: 12/12/2024 10:36:00 — Analyzed 12/12/2024 10:36:00 WJP

z	Check Limits	Completed					

ASTM D7065-17 — Prepared: 1149679 11/26/2024 15:30:00 — Analyzed 1150300 12/02/2024 19:35:00 DWL

z	Nonyl Phenol Expansion	Entered					26

EPA 200.2 2.8 — Prepared: 1149442 11/25/2024 10:00:00 — Analyzed 1149442 11/25/2024 10:00:00 HLT

z	Liquid Metals Digestion	50/50	ml				13

EPA 245.7 2 — Prepared: 1149203 11/22/2024 10:00:00 — Analyzed 1149203 11/22/2024 10:00:00 MP1

NELAC	Low Level Mercury Liquid Metals	50/47	ml				15

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Printed: 12/12/2024

2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

EPA 604.1	*Prepared:*	*1149479*	*11/25/2024*	*15:00:00*	*Analyzed*	*1149479*	*11/25/2024*	*15:00:00*	*LSM*	
Hexachlorophene Extraction	**5/980**	**ml**								02
EPA 604.1	*Prepared:*	*1149479*	*11/25/2024*	*15:00:00*	*Analyzed*	*1151420*	*12/10/2024*	*07:22:00*	*BRU*	
Hexachlorophene Expansion	**Entered**						**70-30-4**			23
EPA 608.3	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149462*	*11/25/2024*	*14:00:00*	*MCC*	
Liquid-Liquid Extr. W/Hex Ex	**1/999**	**ml**								03
EPA 608.3	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150009*	*11/26/2024*	*21:25:00*	*KAP*	
z **Table 1 Organochlorine Pesticide**	**Entered**									20
EPA 608.3	*Prepared:*	*1149463*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149463*	*11/25/2024*	*14:00:00*	*MCC*	
Solvent Extraction	**1/999**	**ml**								03
EPA 608.3	*Prepared:*	*1149464*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149464*	*11/25/2024*	*14:00:00*	*MCC*	
PCB Liq-Liq Extr. W/Hex Exch.	**1/999**	**ml**								03
EPA 608.3	*Prepared:*	*1149464*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149931*	*11/26/2024*	*21:25:00*	*KAP*	
NELAC **Polychlorinated Biphenyls**	**Entered**									22
EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1149646*	*11/26/2024*	*14:40:00*	*LSM*	
NELAC **Esterification of Sample**	**10/1006**	**ml**								05
EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1150042*	*11/27/2024*	*18:52:00*	*KAP*	

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Printed: 12/12/2024

2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 *Received:* 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

	EPA 615	*Prepared:*	*1149646*	*11/26/2024*	*14:40:00*	*Analyzed*	*1150042*	*11/27/2024*	*18:52:00*	*KAP*
NELAC	**Herbicides by GC**	**Entered**								25
	EPA 617	*Prepared:*	*1149462*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149957*	*11/26/2024*	*21:25:00*	*KAP*
z	**Dicofol/Methoxychlor/Mirex**	**Entered**								20
	EPA 622	*Prepared:*	*1149463*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150821*	*12/02/2024*	*20:36:00*	*KAP*
z	**Table 1 Organophosphorous Pestic**	**Entered**								21
	EPA 625.1	*Prepared:*	*1149630*	*11/26/2024*	*13:40:00*	*Analyzed*	*1149630*	*11/26/2024*	*13:40:00*	*MCC*
	Liquid-Liquid Extraction, BNA	**1/965**	**ml**							04
	EPA 625.1	*Prepared:*	*1149630*	*11/26/2024*	*13:40:00*	*Analyzed*	*1150158*	*11/27/2024*	*21:38:00*	*PM1*
NELAC	**Table D-1/ D-2 Semivolatiles Exp**	**Entered**								24
	EPA 625.1	*Prepared:*	*1149679*	*11/26/2024*	*15:30:00*	*Analyzed*	*1149679*	*11/26/2024*	*15:30:00*	*LSM*
	Nonylphenol Liq-Liq Extract	**1/803**	**ml**							11
	EPA 632	*Prepared:*	*1149461*	*11/25/2024*	*14:00:00*	*Analyzed*	*1149461*	*11/25/2024*	*14:00:00*	*MCC*
	Liquid-Liquid Extr. W/Hex Ex	**1/999**	**ml**							03
	EPA 632	*Prepared:*	*1149461*	*11/25/2024*	*14:00:00*	*Analyzed*	*1150275*	*11/27/2024*	*23:28:00*	*BRU*
NELAC	**Carbaryl/Diuron**	**Entered**								19

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2357077 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

TX 1001	*Prepared:*	*1148986*	*11/21/2024*	*13:15:00*	*Analyzed*	*1148986*	*11/21/2024*	*13:15:00*	*CRS*	
z	**Butyltins Extraction**	**1/988**	**ml**							01
TX 1001	*Prepared:*	*1148986*	*11/21/2024*	*13:15:00*	*Analyzed*	*1149585*	*11/25/2024*	*19:41:00*	*DWL*	
z	**Butyltin Expansion**	**Entered**								16

2357078 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 Received: 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

EPA 350.1, Rev. 2.0	*Prepared:*	*1149129*	*11/22/2024*	*06:40:57*	*Analyzed*	*1149129*	*11/22/2024*	*06:40:57*	*AMB*	
NELAC	**Ammonia Distillation**	**6/6**	**ml**							03
EPA 351.2, Rev 2.0	*Prepared:*	*1149141*	*11/22/2024*	*07:32:16*	*Analyzed*	*1149141*	*11/22/2024*	*07:32:16*	*MEG*	
NELAC	**TKN Block Digestion**	**20/20**	**ml**							03
SM 2540 C-2015	*Prepared:*	*1149550*	*11/26/2024*	*08:25:00*	*Analyzed*	*1149550*	*11/26/2024*	*08:25:00*	*JMB*	
NELAC	**Total Dissolved Solids Started**	**Started**								
SM 2540 D-2011	*Prepared:*	*1148383*	*11/21/2024*	*15:07:00*	*Analyzed*	*1148383*	*11/21/2024*	*15:07:00*	*SRJ*	
NELAC	**TSS Set Started**	**Started**								

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2357078 **ROBINDALE WWTP Permit Renewal** COMP 11/19 1400 11/20 1200 *Received:* 11/21/2024

P2302002

Composite Stop 12:00 11/20/24 11/20/2024

SM 5210 B-2016 (TCMP Inhibitor)	*Prepared:*	*1149134*	*11/22/2024*		*Analyzed*	*1149134*	*11/22/2024*	*06:50:05*	*ESN*
NELAC **BODc Set Started**	**Started**								

2357084 **ROBINDALE WWTP Permit** *Received:* 11/21/2024

P2302002

11/20/2024

EPA 1664B (HEM)	*Prepared:*	*1150329*	*12/03/2024*	*07:30:00*	*Analyzed*	*1150329*	*12/03/2024*	*07:30:00*	*TRC*	
NELAC **O&G HEM Started**	**Started**									
EPA 420.4 1	*Prepared:*	*1149200*	*11/22/2024*	*10:56:27*	*Analyzed*	*1149200*	*11/22/2024*	*10:56:27*	*MEG*	
NELAC **Phenol Distillation**	**6/6**	**ml**								06
EPA 624.1	*Prepared:*	*1149416*	*11/22/2024*	*14:56:00*	*Analyzed*	*1149416*	*11/22/2024*	*14:56:00*	*MR1*	
NELAC **Acrolein/Acrylonitrile Exp.**	**Entered**									04
EPA 624.1	*Prepared:*	*1149420*	*11/22/2024*	*14:56:00*	*Analyzed*	*1149420*	*11/22/2024*	*14:56:00*	*MR1*	
z **Table D-1/D-2 Volatile Expansion**	**Entered**									04
SM 4500-CN⁻ C-2016	*Prepared:*	*1149138*	*11/22/2024*	*07:26:34*	*Analyzed*	*1149138*	*11/22/2024*	*07:26:34*	*MEG*	
NELAC **Cyanide Distillation**	**10/5**	**ml**								07

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2357084 **ROBINDALE WWTP Permit**

Received: 11/21/2024

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11/20/2024

SM 4500-CN⁻ C-2016 *Prepared:* 1149140 11/22/2024 07:30:02 *Analyzed* 1149140 11/22/2024 07:30:02 *MEG*

NELAC	**CN Dist After Chlorination**	**10/5**	**ml**	07

Qualifiers:

D - Duplicate RPD was higher than expected
P - Spike recovery outside control limits due to matrix effects.
X - Standard reads higher than desired.
S - Standard reads lower than desired

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

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

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

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

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

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Analytical Set 1149134 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127054580
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127054632
BOD Carbonaceous	1149134	0.1	0.200	0.500	mg/L	127056926

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD		Limit%
BOD Carbonaceous	2357120	8.16	8.80	mg/L	7.55		30.0
BOD Carbonaceous	2357198	2.52	ND	mg/L	200	*	30.0
BOD Carbonaceous	2357472	ND	ND	mg/L			30.0
BOD Carbonaceous	2357510	5.23	4.39	mg/L	17.5		30.0
BOD Carbonaceous	2357802	2.05	3.05	mg/L	39.2	*	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1149134	0.670	0.200	0.500	mg/L	127054582
BOD Carbonaceous	1149134	0.663	0.200	0.500	mg/L	127054634
BOD Carbonaceous	1149134	0.557	0.200	0.500	mg/L	127056928

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		222	198	mg/L	112	83.7 - 116	127054583
BOD Carbonaceous		217	198	mg/L	110	83.7 - 116	127054635
BOD Carbonaceous		220	198	mg/L	111	83.7 - 116	127056929

Analytical Set 1149432 — EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1149141	ND	0.00712	0.050	mg/L	127062455

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.18	5.00	mg/L	104	90.0 - 110	127062436
Total Kjeldahl Nitrogen	5.32	5.00	mg/L	106	90.0 - 110	127062439
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	127062450
Total Kjeldahl Nitrogen	5.22	5.00	mg/L	104	90.0 - 110	127062460
Total Kjeldahl Nitrogen	5.37	5.00	mg/L	107	90.0 - 110	127062471
Total Kjeldahl Nitrogen	5.38	5.00	mg/L	108	90.0 - 110	127062482
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	127062493
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127062504
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127062511

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2356911	ND	ND	mg/L		20.0
Total Kjeldahl Nitrogen	2356920	ND	ND	mg/L		20.0

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ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Kjeldahl Nitrogen	5.27	5.00	mg/L	105	90.0 - 110	127062435

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Total Kjeldahl Nitrogen	1149141	5.45	4.96	5.00	90.0 - 110	109	99.2	mg/L	9.41	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Total Kjeldahl Nitrogen	2356911	4.77	ND	5.00	mg/L	95.4	80.0 - 120	127062461
Total Kjeldahl Nitrogen	2356920	5.08	ND	5.00	mg/L	102	80.0 - 120	127062464

Analytical Set 1149459 — SM 4500-CN⁻ E-2016

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cyanide, total	1149138	ND	0.00238	0.005	mg/L	127062835

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide, total	0.522	0.500	mg/L	104	90.0 - 110	127062834
Cyanide, total	0.521	0.500	mg/L	104	90.0 - 110	127062844
Cyanide, total	0.519	0.500	mg/L	104	90.0 - 110	127062846

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Cyanide, total	2357084	ND	ND	mg/L		20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide, total	0.207	0.200	mg/L	104	90.0 - 110	127062833

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Cyanide, total	1149138	0.409	0.409	0.400	90.0 - 110	102	102	mg/L	0	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Cyanide, total	2357084	0.407	ND	0.400	mg/L	102	90.0 - 110	127062840

Analytical Set 1149460 — SM 4500-CN⁻ G-2016

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Cyanide After Chlorination	1149140	ND	0.00119	0.0025	mg/L	127062849

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide After Chlorination	0.521	0.500	mg/L	104	90.0 - 110	127062848
Cyanide After Chlorination	0.519	0.500	mg/L	104	90.0 - 110	127062856

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Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Cyanide After Chlorination	2357084	ND	0.0012	mg/L	200	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cyanide After Chlorination	0.207	0.200	mg/L	104	90.0 - 110	127062847

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Cyanide After Chlorination	1149140	0.202	0.194	0.200	90.0 - 110	101	97.0	mg/L	4.04	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Cyanide After Chlorination	2357084	0.415	0.0012	0.400	mg/L	104	90.0 - 110	127062854

Analytical Set 1149518 — EPA 350.1 2

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Ammonia Nitrogen	1149129	ND	0.00336	0.020	mg/L	127064169

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127064053
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	127064061
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127064067
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	127064078
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064084
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064095
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	127064104
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064112
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064122
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064130
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	127064141
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127064150
Ammonia Nitrogen	2.19	2.00	mg/L	110	90.0 - 110	127064161
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064167
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	127064170
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	127064177

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*		*Limit%*
Ammonia Nitrogen	2356344	0.222	0.224	mg/L	0.897		20.0
Ammonia Nitrogen	2356919	0.097	0.122	mg/L	22.8	*	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Ammonia Nitrogen	2.07	2.00	mg/L	104	90.0 - 110	127064052

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Ammonia Nitrogen	1149129	2.17	2.16	2.00	90.0 - 110	108	108	mg/L	0.462	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*
Ammonia Nitrogen	2356344	2.42	0.224	2.00	mg/L	110	80.0 - 120	127064113
Ammonia Nitrogen	2356919	2.39	0.122	2.00	mg/L	113	80.0 - 120	127064116

Analytical Set 1149743 — EPA 420.4 1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Phenolics, Total Recoverable	1149200	ND	0.003	0.005	mg/L	127070576

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	127070575
Phenolics, Total Recoverable	0.200	0.200	mg/L	100	90.0 - 110	127070584
Phenolics, Total Recoverable	0.201	0.200	mg/L	100	90.0 - 110	127070591

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Phenolics, Total Recoverable	2356348	0.043	0.045	mg/L	4.55	20.0

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Phenolics, Total Recoverable	0.203	0.200	mg/L	102	90.0 - 110	127070574

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Phenolics, Total Recoverable	1149200	0.208	0.203	0.200	90.0 - 110	104	102	mg/L	2.43	20.0

Mat. Spike

Parameter	*Sample*	*Spike*	*Unknown*	*Known*	*Units*	*Recovery %*	*Limits %*	*File*	
Phenolics, Total Recoverable	2356348	0.215	0.045	0.200	mg/L	85.0	90.0 - 110	127070581	*

Analytical Set 1149000 — SM 4500-O G-2016

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Dissolved Oxygen Onsite	2357084	7.0	7.0	mg/L		20

Analytical Set 1149001 — SM 4500-H+ B-2011

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
pH (Onsite)	8.0	6.0	SU	133.3	90 - 110	
pH (Onsite)	8.0	6.0	SU	133.3	90 - 110	

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*

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Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
pH (Onsite)	2357084	7.0	7.0	SU		20

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
pH (Onsite)	1149001	6.0	8.0	SU	75	90 - 110	
pH (Onsite)	1149001	6.0	8.0	SU	75	90 - 110	

Analytical Set 1149002 — SM 2550 B - 2010

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Temperature (onsite)	2357084	28	28	Degrees C		20

Analytical Set 1149003

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Field Cl2 Check for CNa	2357084	NEG	NEG			20

Analytical Set 1149178

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Field Sulfide Check for CNa	2357084	neg	NEG	mg/L		20

Analytical Set 1149280 — SM 4500-Cl G-2011

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Cl2 Res.,Total(Onsite)Spec Mid	2357969	ND	ND	mg/L		20

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Cl2 Res.,Total(Onsite)Spec Mid	1149280	0.220	0.220	mg/L	100	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1149280	0.940	0.930	mg/L	101.1	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1149280	1.58	1.58	mg/L	100	90 - 110	

Analytical Set 1149250 — SM 2540 D-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1149250	ND	2	2	mg/L	127057868

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Suspended Solids	1149250	0			grams	127057867

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Suspended Solids	2357088	272	271	mg/L	0.368	20.0

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Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Suspended Solids	2357107	340	330	mg/L	2.99	20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
Total Suspended Solids	1149250	50.0	50.0	mg/L	100	90.0 - 110	127057886

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Suspended Solids		100	100	mg/L	100	90.0 - 110	127057885

Analytical Set 1150150 — SM 2540 C-2015

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Dissolved Solids	1150150	ND	5.00	5.00	mg/L	127079789

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Dissolved Solids	1150150	0.0002			grams	127079776

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Dissolved Solids	2356853	182	184	mg/L	1.09	20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
Total Dissolved Solids	1150150	200	200	mg/L	100	85.0 - 115	127079790

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Total Dissolved Solids		96.0	100	mg/L	96.0	90.0 - 110	127079777

Analytical Set 1150432 — EPA 1664B (HEM)

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Oil and Grease (HEM)	1150432	ND	0.804	4.00	mg/L	127085860

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Oil and Grease (HEM)	1150432	0			grams	127085859
Oil and Grease (HEM)	1150432	0.0001			grams	127085884

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*
Oil and Grease (HEM)	1150432	36.0	40.0	mg/L	90.0	78.0 - 114	127085861

MS

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Oil and Grease (HEM)	2358576	39.0	0	1.70	40.0	78.0 - 114	97.5		mg/L		20.0

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Project
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Analytical Set 1149220 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	0.098	0.100	mg/L	98.0	70.0 - 130	127057044

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1149220	ND	0.0112	0.100	mg/L	127057045

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1149220	0	0.0112	0.100	mg/L	127057041
Fluoride	1149220	0	0.0112	0.100	mg/L	127057059
Fluoride	1149220	0	0.0112	0.100	mg/L	127057073

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	10.1	10.0	mg/L	101	90.0 - 110	127057040
Fluoride	9.85	10.0	mg/L	98.5	90.0 - 110	127057058
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	127057072

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1149220	5.51	5.62	5.00	88.0 - 118	110	112	mg/L	1.98	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride	2356688	18.7	18.4	ND	20.0	80.0 - 120	93.5	92.0	mg/L	1.62	20.0
Fluoride	2356702	40.4	42.4	ND	50.0	80.0 - 120	80.8	84.8	mg/L	4.83	20.0

Analytical Set 1149256 — EPA 300.0 2.1

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	0.016	0.0226	mg/L	70.8	70.0 - 130	127058003

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen Total	1149256	ND	0.00464	0.0226	mg/L	127058004

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058000
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058020
Nitrate-Nitrogen Total	1149256	0	0.00464	0.0226	mg/L	127058032

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	2.28	2.26	mg/L	101	90.0 - 110	127057999
Nitrate-Nitrogen Total	2.25	2.26	mg/L	99.6	90.0 - 110	127058019

PUB6-R

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nitrate-Nitrogen Total	2.31	2.26	mg/L	102	90.0 - 110	127058031

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen Total	1149256	1.24	1.24	1.13	86.3 - 117	110	110	mg/L	0	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nitrate-Nitrogen Total	2356385	6.42	6.46	4.20	2.26	80.0 - 120	98.2	100	mg/L	1.79	20.0
Nitrate-Nitrogen Total	2356387	2.19	2.19	ND	2.26	80.0 - 120	96.9	96.9	mg/L	0	20.0

Analytical Set 1149606 — EPA 300.0 2.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1149606	ND	0.0298	0.300	mg/L	127067691
Sulfate	1149606	ND	0.160	0.300	mg/L	127067691

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chloride	1149606	0	0.0298	0.300	mg/L	127067687
Chloride	1149606	0	0.0298	0.300	mg/L	127067707
Chloride	1149606	0	0.0298	0.300	mg/L	127067719
Sulfate	1149606	0	0.160	0.300	mg/L	127067687
Sulfate	1149606	0	0.160	0.300	mg/L	127067707
Sulfate	1149606	0	0.160	0.300	mg/L	127067719

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	10.6	10.0	mg/L	106	90.0 - 110	127067686
Chloride	10.5	10.0	mg/L	105	90.0 - 110	127067706
Chloride	10.5	10.0	mg/L	105	90.0 - 110	127067718
Sulfate	9.79	10.0	mg/L	97.9	90.0 - 110	127067686
Sulfate	9.69	10.0	mg/L	96.9	90.0 - 110	127067706
Sulfate	9.65	10.0	mg/L	96.5	90.0 - 110	127067718

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	1149606	5.48	5.45	5.00	85.0 - 115	110	109	mg/L	0.549	20.0
Sulfate	1149606	5.21	5.11	5.00	85.4 - 124	104	102	mg/L	1.94	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2357078	800	823	639	100	80.0 - 120	161 *	184 *	mg/L	13.3	20.0
Sulfate	2357078	474	484	344	100	80.0 - 120	130 *	140 *	mg/L	7.41	20.0
Chloride	2357104	283	285	166	100	80.0 - 120	117	119	mg/L	1.69	20.0
Sulfate	2357104	378	383	255	100	80.0 - 120	123 *	128 *	mg/L	3.98	20.0

PUB6-R

Public Utilities Board
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Analytical Set 1149264 — EPA 245.7 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1149203	ND	1.20	5.00	ng/L	127058142

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	27.0	25.0	ng/L	108	87.0 - 113	127058141
Mercury, Total (low level)	25.7	25.0	ng/L	103	87.0 - 113	127058152
Mercury, Total (low level)	25.2	25.0	ng/L	101	87.0 - 113	127058163
Mercury, Total (low level)	24.6	25.0	ng/L	98.4	87.0 - 113	127058169

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	ND	50.0	ng/L	0	90.0 - 110	127058139

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.0	25.0	ng/L	104	90.0 - 110	127058140

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1149203	24.0	23.9	25.0	76.0 - 115	96.0	95.6	ng/L	0.418	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2355008	22.3	22.9	ND	26.6	63.0 - 111	83.8	86.1	ng/L	2.65	18.0
Mercury, Total (low level)	2356729	20.2	20.7	ND	26.6	63.0 - 111	75.9	77.8	ng/L	2.44	18.0

Analytical Set 1149332 — SM 3500-Cr B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexavalent Chromium	1149332	0.768	0.550	3.00	ug/L	127059156
Hexavalent Chromium	1149332	ND	0.550	3.00	ug/L	127059164
Hexavalent Chromium	1149332	ND	0.550	3.00	ug/L	127059167

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexavalent Chromium	81.7	80.0	ug/L	102	90.0 - 110	127059157
Hexavalent Chromium	82.7	80.0	ug/L	103	90.0 - 110	127059165
Hexavalent Chromium	84.7	80.0	ug/L	106	90.0 - 110	127059168

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexavalent Chromium	1149332	86.9	84.9	80.0	85.0 - 115	109	106	ug/L	2.33	15.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Hexavalent Chromium	2357077	78.1	77.9	ND	80.0	70.0 - 130	97.6	97.4	ug/L	0.256	20.0

PUB6-R

Public Utilities Board
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Analytical Set 1149700 EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Aluminum, Total	1149442	ND	0.00171	0.00171	mg/L	127069743
Antimony, Total	1149442	ND	0.00376	0.00376	mg/L	127069743
Barium, Total	1149442	ND	0.000635	0.001	mg/L	127069743
Beryllium, Total	1149442	ND	0.000139	0.001	mg/L	127069743
Cadmium, Total	1149442	ND	0.000067	0.001	mg/L	127069743
Chromium, Total	1149442	ND	0.000621	0.001	mg/L	127069743
Copper, Total	1149442	ND	0.00155	0.00155	mg/L	127069743
Lead, Total	1149442	ND	0.000244	0.001	mg/L	127069743
Nickel, Total	1149442	ND	0.00112	0.00112	mg/L	127069743
Thallium, Total	1149442	ND	0.000106	0.001	mg/L	127069743
Zinc, Total	1149442	ND	0.000875	0.001	mg/L	127069743

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0497	0.05	mg/L	99.4	90.0 - 110	127069693
Aluminum, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	127069699
Aluminum, Total	0.050	0.05	mg/L	100	90.0 - 110	127069710
Aluminum, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069719
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	127069730
Aluminum, Total	0.0514	0.05	mg/L	103	90.0 - 110	127069737
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069747
Aluminum, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069758
Aluminum, Total	0.0521	0.05	mg/L	104	90.0 - 110	127069768
Antimony, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069693
Antimony, Total	0.0516	0.05	mg/L	103	90.0 - 110	127069747
Antimony, Total	0.0525	0.05	mg/L	105	90.0 - 110	127069758
Barium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069693
Barium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Barium, Total	0.0495	0.05	mg/L	99.0	90.0 - 110	127069710
Barium, Total	0.0533	0.05	mg/L	107	90.0 - 110	127069730
Barium, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069747
Barium, Total	0.0525	0.05	mg/L	105	90.0 - 110	127069758
Beryllium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069693
Beryllium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127069699
Beryllium, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069710
Beryllium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	127069719
Beryllium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	127069747
Beryllium, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069758
Cadmium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069693
Cadmium, Total	0.050	0.05	mg/L	100	90.0 - 110	127069699
Cadmium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069710
Cadmium, Total	0.0491	0.05	mg/L	98.2	90.0 - 110	127069719
Cadmium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127069730

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cadmium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069747
Cadmium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069758
Chromium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069693
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Chromium, Total	0.053	0.05	mg/L	106	90.0 - 110	127069710
Chromium, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	127069719
Chromium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069730
Chromium, Total	0.050	0.05	mg/L	100	90.0 - 110	127069737
Chromium, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069747
Chromium, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069758
Copper, Total	0.0527	0.05	mg/L	105	90.0 - 110	127069693
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127069699
Copper, Total	0.0546	0.05	mg/L	109	90.0 - 110	127069710
Copper, Total	0.0512	0.05	mg/L	102	90.0 - 110	127069719
Copper, Total	0.052	0.05	mg/L	104	90.0 - 110	127069730
Copper, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069737
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069747
Copper, Total	0.0519	0.05	mg/L	104	90.0 - 110	127069758
Copper, Total	0.0532	0.05	mg/L	106	90.0 - 110	127069768
Copper, Total	0.0523	0.05	mg/L	105	90.0 - 110	127069779
Copper, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069790
Lead, Total	0.0507	0.05	mg/L	101	90.0 - 110	127069693
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069699
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069710
Lead, Total	0.0476	0.05	mg/L	95.2	90.0 - 110	127069719
Lead, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	127069730
Lead, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127069747
Lead, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127069758
Lead, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069768
Lead, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069779
Lead, Total	0.0502	0.05	mg/L	100	90.0 - 110	127069790
Nickel, Total	0.0504	0.05	mg/L	101	90.0 - 110	127069693
Nickel, Total	0.0501	0.05	mg/L	100	90.0 - 110	127069699
Nickel, Total	0.0505	0.05	mg/L	101	90.0 - 110	127069710
Nickel, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069719
Nickel, Total	0.0541	0.05	mg/L	108	90.0 - 110	127069730
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127069747
Nickel, Total	0.0526	0.05	mg/L	105	90.0 - 110	127069758
Thallium, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	127069747
Thallium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127069758
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069768
Thallium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069779
Thallium, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069790
Zinc, Total	0.0534	0.05	mg/L	107	90.0 - 110	127069693
Zinc, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069699

QUALITY CONTROL

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Zinc, Total	0.0532	0.05	mg/L	106	90.0 - 110	127069710
Zinc, Total	0.0524	0.05	mg/L	105	90.0 - 110	127069719
Zinc, Total	0.0546	0.05	mg/L	109	90.0 - 110	127069730
Zinc, Total	0.0537	0.05	mg/L	107	90.0 - 110	127069747
Zinc, Total	0.054	0.05	mg/L	108	90.0 - 110	127069758
Zinc, Total	0.0535	0.05	mg/L	107	90.0 - 110	127069768

ICV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Aluminum, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069691
Antimony, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069691
Barium, Total	0.0512	0.05	mg/L	102	90.0 - 110	127069691
Beryllium, Total	0.0513	0.05	mg/L	103	90.0 - 110	127069691
Cadmium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069691
Chromium, Total	0.0517	0.05	mg/L	103	90.0 - 110	127069691
Copper, Total	0.0529	0.05	mg/L	106	90.0 - 110	127069691
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	127069691
Nickel, Total	0.0509	0.05	mg/L	102	90.0 - 110	127069691
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	127069691
Zinc, Total	0.0506	0.05	mg/L	101	90.0 - 110	127069691

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	1149442	0.487	0.510	0.500	85.0 - 115	97.4	102	mg/L	4.61	20.0
Antimony, Total	1149442	0.487	0.505	0.500	85.0 - 115	97.4	101	mg/L	3.63	20.0
Barium, Total	1149442	0.497	0.510	0.500	85.0 - 115	99.4	102	mg/L	2.58	20.0
Beryllium, Total	1149442	0.185	0.192	0.200	85.0 - 115	92.5	96.0	mg/L	3.71	20.0
Cadmium, Total	1149442	0.237	0.246	0.250	85.0 - 115	94.8	98.4	mg/L	3.73	20.0
Chromium, Total	1149442	0.494	0.504	0.500	85.0 - 115	98.8	101	mg/L	2.00	20.0
Copper, Total	1149442	0.468	0.496	0.500	85.0 - 115	93.6	99.2	mg/L	5.81	20.0
Lead, Total	1149442	0.463	0.484	0.500	85.0 - 115	92.6	96.8	mg/L	4.44	20.0
Nickel, Total	1149442	0.495	0.515	0.500	85.0 - 115	99.0	103	mg/L	3.96	20.0
Thallium, Total	1149442	0.477	0.489	0.500	85.0 - 115	95.4	97.8	mg/L	2.48	20.0
Zinc, Total	1149442	0.481	0.503	0.500	85.0 - 115	96.2	101	mg/L	4.47	20.0

MRL Check

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Copper, Total	0.00114	0.001	mg/L	114	25.0 - 175	127069690
Lead, Total	0.00107	0.001	mg/L	107	85.0 - 115	127069690

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Aluminum, Total	2357486	0.560	0.579	0.0706	0.500	70.0 - 130	97.9	102	mg/L	3.81	20.0
Antimony, Total	2357486	0.532	0.521	ND	0.500	70.0 - 130	106	104	mg/L	2.09	20.0
Barium, Total	2357486	0.528	0.527	0.0224	0.500	70.0 - 130	101	101	mg/L	0.198	20.0
Beryllium, Total	2357486	0.196	0.193	ND	0.200	70.0 - 130	98.0	96.5	mg/L	1.54	20.0

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

PUB6-R

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

Project
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MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Cadmium, Total	2357486	0.242	0.242	ND	0.250	70.0 - 130	96.8	96.8	mg/L	0	20.0
Chromium, Total	2357486	0.509	0.506	ND	0.500	70.0 - 130	102	101	mg/L	0.591	20.0
Copper, Total	2357486	0.499	0.502	ND	0.500	70.0 - 130	99.8	100	mg/L	0.599	20.0
Lead, Total	2357486	0.482	0.478	ND	0.500	70.0 - 130	96.4	95.6	mg/L	0.833	20.0
Nickel, Total	2357486	0.504	0.501	0.00355	0.500	70.0 - 130	100	99.5	mg/L	0.601	20.0
Thallium, Total	2357486	0.487	0.478	ND	0.500	70.0 - 130	97.4	95.6	mg/L	1.87	20.0
Zinc, Total	2357486	0.503	0.498	0.00546	0.500	70.0 - 130	99.5	98.5	mg/L	1.01	20.0
Aluminum, Total	2358086	0.618	0.612	0.0968	0.500	70.0 - 130	104	103	mg/L	1.16	20.0
Antimony, Total	2358086	0.534	0.536	ND	0.500	70.0 - 130	107	107	mg/L	0.374	20.0
Barium, Total	2358086	0.615	0.616	0.103	0.500	70.0 - 130	102	103	mg/L	0.195	20.0
Beryllium, Total	2358086	0.200	0.201	ND	0.200	70.0 - 130	100	100	mg/L	0.499	20.0
Cadmium, Total	2358086	0.243	0.242	ND	0.250	70.0 - 130	97.2	96.8	mg/L	0.412	20.0
Chromium, Total	2358086	0.525	0.523	0.0134	0.500	70.0 - 130	102	102	mg/L	0.392	20.0
Copper, Total	2358086	0.520	0.526	0.0406	0.500	70.0 - 130	95.9	97.1	mg/L	1.24	20.0
Lead, Total	2358086	0.471	0.462	0.000385	0.500	70.0 - 130	94.1	92.3	mg/L	1.93	20.0
Nickel, Total	2358086	0.514	0.515	0.0196	0.500	70.0 - 130	98.9	99.1	mg/L	0.202	20.0
Thallium, Total	2358086	0.480	0.475	ND	0.500	70.0 - 130	96.0	95.0	mg/L	1.05	20.0
Zinc, Total	2358086	1.19	1.20	0.690	0.500	70.0 - 130	100	102	mg/L	1.98	20.0

Analytical Set 1149779 — EPA 200.8 5.4

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Arsenic, Total	1149442	0.00028	0.00025	0.0005	mg/L	127071700
Selenium, Total	1149442	ND	0.000728	0.002	mg/L	127071700
Silver, Total	1149442	ND	0.0000628	0.0002	mg/L	127071700

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Arsenic, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	127071651
Arsenic, Total	0.0506	0.05	mg/L	101	90.0 - 110	127071683
Arsenic, Total	0.0501	0.05	mg/L	100	90.0 - 110	127071693
Arsenic, Total	0.0493	0.05	mg/L	98.6	90.0 - 110	127071703
Arsenic, Total	0.0498	0.05	mg/L	99.6	90.0 - 110	127071713
Selenium, Total	0.0501	0.05	mg/L	100	90.0 - 110	127071651
Selenium, Total	0.0537	0.05	mg/L	107	90.0 - 110	127071683
Selenium, Total	0.0507	0.05	mg/L	101	90.0 - 110	127071693
Selenium, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	127071703
Selenium, Total	0.0508	0.05	mg/L	102	90.0 - 110	127071713
Selenium, Total	0.0528	0.05	mg/L	106	90.0 - 110	127071724
Silver, Total	0.0534	0.05	mg/L	107	90.0 - 110	127071651
Silver, Total	0.0509	0.05	mg/L	102	90.0 - 110	127071703
Silver, Total	0.0514	0.05	mg/L	103	90.0 - 110	127071713
Silver, Total	0.0515	0.05	mg/L	103	90.0 - 110	127071724

Email: Kilgore.ProjectManagement@spllabs.com

PUB6-R

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Arsenic, Total	0.0483	0.05	mg/L	96.6	90.0 - 110	127071649
Selenium, Total	0.0503	0.05	mg/L	101	90.0 - 110	127071649
Silver, Total	0.052	0.05	mg/L	104	90.0 - 110	127071649

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Arsenic, Total	1149442	0.496	0.501	0.500	85.0 - 115	99.2	100	mg/L	1.00	20.0
Selenium, Total	1149442	0.494	0.509	0.500	85.0 - 115	98.8	102	mg/L	2.99	20.0
Silver, Total	1149442	0.096	0.098	0.100	85.0 - 115	96.0	98.0	mg/L	2.06	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic, Total	2358086	0.506	0.509	0.00199	0.500	70.0 - 130	101	101	mg/L	0.593	20.0
Selenium, Total	2358086	0.466	0.461	0.00123	0.500	70.0 - 130	93.0	92.0	mg/L	1.08	20.0
Silver, Total	2358086	0.0922	0.0907	0.000134	0.100	70.0 - 130	92.1	90.6	mg/L	1.64	20.0

Analytical Set 1149416 EPA 624.1

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1149416	174	7	0.5	0 - 2.00	127062206
BFB Mass 174	1149416	95.0	1346	52.5	50.0 - 100	127062206
BFB Mass 175	1149416	174	82	6.1	5.00 - 9.00	127062206
BFB Mass 176	1149416	174	1287	95.6	95.0 - 101	127062206
BFB Mass 177	1149416	176	75	5.8	5.00 - 9.00	127062206
BFB Mass 50	1149416	95.0	417	16.2	15.0 - 40.0	127062206
BFB Mass 75	1149416	95.0	1299	50.6	30.0 - 60.0	127062206
BFB Mass 95	1149416	95.0	2566	100.0	100 - 100	127062206
BFB Mass 96	1149416	95.0	148	5.8	5.00 - 9.00	127062206

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Acrolein	1149416	ND	3.14	4.00	ug/L	127062210
Acrylonitrile	1149416	ND	1.43	2.00	ug/L	127062210

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS	95920	96680	48340	145000	127062207	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS Dup	96310	96680	48340	145000	127062208	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	Blank	81140	96680	48340	145000	127062210	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS	216500	217500	108800	326300	127062207	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS Dup	216000	217500	108800	326300	127062208	1149416
ChlorobenzeneD5 (ISTD)	1149416	Blank	204600	217500	108800	326300	127062210	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	98060	96680	48340	145000	127062213	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	95140	96680	48340	145000	127062214	1149416
ChlorobenzeneD5 (ISTD)	2356713	MS	215000	217500	108800	326300	127062213	1149416
ChlorobenzeneD5 (ISTD)	2356713	MSD	208200	217500	108800	326300	127062214	1149416

PUB6-R

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IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	81170	96680	48340	145000	127062211	1149416
ChlorobenzeneD5 (ISTD)	2357084	Unknown	202100	217500	108800	326300	127062211	1149416

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS	11.07	11.07	11.01	11.13	127062207	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	LCS Dup	11.07	11.07	11.01	11.13	127062208	1149416
1,4-DichlorobenzeneD4 (ISTD)	1149416	Blank	11.07	11.07	11.01	11.13	127062210	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS	8.714	8.714	8.654	8.774	127062207	1149416
ChlorobenzeneD5 (ISTD)	1149416	LCS Dup	8.714	8.714	8.654	8.774	127062208	1149416
ChlorobenzeneD5 (ISTD)	1149416	Blank	8.715	8.714	8.654	8.774	127062210	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	11.07	11.07	11.01	11.13	127062213	1149416
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	11.07	11.07	11.01	11.13	127062214	1149416
ChlorobenzeneD5 (ISTD)	2356713	MS	8.714	8.714	8.654	8.774	127062213	1149416
ChlorobenzeneD5 (ISTD)	2356713	MSD	8.714	8.714	8.654	8.774	127062214	1149416
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	11.07	11.07	11.01	11.13	127062211	1149416
ChlorobenzeneD5 (ISTD)	2357084	Unknown	8.714	8.714	8.654	8.774	127062211	1149416

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Acrolein	1149416	71.3	73.9	40.0	60.0 - 140	178 *	185 *	ug/L	3.86	30.0
Acrylonitrile	1149416	40.2	47.1	40.0	60.0 - 140	100	118	ug/L	16.5	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Acrolein	2356713	853	947	ND	400	40.0 - 160	213 *	237 *	ug/L	10.4	60.0
Acrylonitrile	2356713	376	447	ND	400	40.0 - 160	94.0	112	ug/L	17.3	60.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2-DCA-d4 (SURR)	1149416	LCS	19.9	20.0	ug/L	99.5	70.0 - 130	127062207
1,2-DCA-d4 (SURR)	1149416	LCS Dup	20.0	20.0	ug/L	100	70.0 - 130	127062208
1,2-DCA-d4 (SURR)	1149416	Blank	20.3	20.0	ug/L	102	70.0 - 130	127062210
Bromofluorobenzene (SURR)	1149416	LCS	20.6	20.0	ug/L	103	70.0 - 130	127062207
Bromofluorobenzene (SURR)	1149416	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127062208
Bromofluorobenzene (SURR)	1149416	Blank	18.8	20.0	ug/L	94.0	70.0 - 130	127062210
Dibromofluoromethane (SURR)	1149416	LCS	20.1	20.0	ug/L	100	70.0 - 130	127062207
Dibromofluoromethane (SURR)	1149416	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127062208
Dibromofluoromethane (SURR)	1149416	Blank	20.0	20.0	ug/L	100	70.0 - 130	127062210
TolueneD8 (SURR)	1149416	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	127062207
TolueneD8 (SURR)	1149416	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	127062208
TolueneD8 (SURR)	1149416	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127062210
1,2-DCA-d4 (SURR)	2356713	MS	20.4	20.0	ug/L	102	70.0 - 130	127062213
1,2-DCA-d4 (SURR)	2356713	MSD	20.4	20.0	ug/L	102	70.0 - 130	127062214
Bromofluorobenzene (SURR)	2356713	MS	19.9	20.0	ug/L	99.5	70.0 - 130	127062213
Bromofluorobenzene (SURR)	2356713	MSD	19.6	20.0	ug/L	98.0	70.0 - 130	127062214

PUB6-R

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Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Dibromofluoromethane (SURR)	2356713	MS	20.2	20.0	ug/L	101	70.0 - 130	127062213
Dibromofluoromethane (SURR)	2356713	MSD	20.2	20.0	ug/L	101	70.0 - 130	127062214
TolueneD8 (SURR)	2356713	MS	19.7	20.0	ug/L	98.5	70.0 - 130	127062213
TolueneD8 (SURR)	2356713	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	127062214
1,2-DCA-d4 (SURR)	2357084	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127062211
Bromofluorobenzene (SURR)	2357084	Unknown	18.6	20.0	ug/L	93.0	70.0 - 130	127062211
Dibromofluoromethane (SURR)	2357084	Unknown	20.5	20.0	ug/L	102	70.0 - 130	127062211
TolueneD8 (SURR)	2357084	Unknown	18.9	20.0	ug/L	94.5	70.0 - 130	127062211

Analytical Set 1149420 EPA 624.1

BFB

Parameter	*Sample*	*RefMass*	*Reading*	*%*	*Limits%*	*File*
BFB Mass 173	1149420	174	7	0.5	0 - 2.00	127062245
BFB Mass 174	1149420	95.0	1346	52.5	50.0 - 100	127062245
BFB Mass 175	1149420	174	82	6.1	5.00 - 9.00	127062245
BFB Mass 176	1149420	174	1287	95.6	95.0 - 101	127062245
BFB Mass 177	1149420	176	75	5.8	5.00 - 9.00	127062245
BFB Mass 50	1149420	95.0	417	16.2	15.0 - 40.0	127062245
BFB Mass 75	1149420	95.0	1299	50.6	30.0 - 60.0	127062245
BFB Mass 95	1149420	95.0	2566	100.0	100 - 100	127062245
BFB Mass 96	1149420	95.0	148	5.8	5.00 - 9.00	127062245

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
1,1,1-Trichloroethane	1149420	ND	0.914	1.00	ug/L	127062249
1,1,2-Trichloroethane	1149420	ND	1.27	2.00	ug/L	127062249
1,1-Dichloroethane	1149420	ND	0.915	1.00	ug/L	127062249
1,1-Dichloroethylene	1149420	ND	0.812	1.00	ug/L	127062249
1,2-Dibromoethane (EDB)	1149420	ND	1.00	1.00	ug/L	127062249
1,2-Dichloroethane	1149420	ND	0.856	1.00	ug/L	127062249
1,2-Dichloropropane	1149420	ND	1.01	1.01	ug/L	127062249
Benzene	1149420	ND	0.813	1.00	ug/L	127062249
Bromodichloromethane	1149420	ND	0.873	1.00	ug/L	127062249
Bromoform	1149420	ND	1.28	2.00	ug/L	127062249
Carbon Tetrachloride	1149420	ND	0.825	1.00	ug/L	127062249
Chlorobenzene	1149420	ND	0.945	1.00	ug/L	127062249
Chloroethane	1149420	ND	3.24	5.00	ug/L	127062249
Chloroform	1149420	ND	0.945	1.00	ug/L	127062249
Chloromethane (Methyl Chloride)	1149420	ND	0.968	1.00	ug/L	127062249
cis-1,3-Dichloropropene	1149420	ND	0.615	1.00	ug/L	127062249
Dibromochloromethane	1149420	ND	0.995	1.00	ug/L	127062249
Dichloromethane	1149420	ND	1.29	2.00	ug/L	127062249
Ethylbenzene	1149420	ND	0.545	1.00	ug/L	127062249
m-Dichlorobenzene (1,3-DCB)	1149420	ND	0.860	1.00	ug/L	127062249
Methyl ethyl ketone (Butanone)	1149420	ND	6.54	10.0	ug/L	127062249

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
o-Dichlorobenzene (1,2-DCB)	1149420	ND	0.960	1.00	ug/L	127062249
p-Dichlorobenzene (1,4-DCB)	1149420	ND	0.865	1.00	ug/L	127062249
Tetrachloroethylene	1149420	ND	0.921	1.00	ug/L	127062249
Toluene	1149420	ND	0.656	1.00	ug/L	127062249
trans-1,2-Dichloroethylene	1149420	ND	0.977	1.00	ug/L	127062249
trans-1,3-Dichloropropene	1149420	ND	0.695	1.00	ug/L	127062249
Trichloroethylene	1149420	ND	0.789	1.00	ug/L	127062249
Vinyl chloride	1149420	ND	1.04	1.04	ug/L	127062249

IS Areas

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS	95920	96680	48340	145000	127062246	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS Dup	96310	96680	48340	145000	127062247	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	Blank	81140	96680	48340	145000	127062249	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS	216500	217500	108800	326300	127062246	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS Dup	216000	217500	108800	326300	127062247	1149420
ChlorobenzeneD5 (ISTD)	1149420	Blank	204600	217500	108800	326300	127062249	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	98060	96680	48340	145000	127062252	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	95140	96680	48340	145000	127062253	1149420
ChlorobenzeneD5 (ISTD)	2356713	MS	215000	217500	108800	326300	127062252	1149420
ChlorobenzeneD5 (ISTD)	2356713	MSD	208200	217500	108800	326300	127062253	1149420
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	81170	96680	48340	145000	127062250	1149420
ChlorobenzeneD5 (ISTD)	2357084	Unknown	202100	217500	108800	326300	127062250	1149420

IS RetTime

Parameter	*Sample*	*Type*	*Reading*	*CCVISM*	*Low*	*High*	*File*	*PrepSet*
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS	11.07	11.07	11.01	11.13	127062246	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	LCS Dup	11.07	11.07	11.01	11.13	127062247	1149420
1,4-DichlorobenzeneD4 (ISTD)	1149420	Blank	11.07	11.07	11.01	11.13	127062249	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS	8.714	8.714	8.654	8.774	127062246	1149420
ChlorobenzeneD5 (ISTD)	1149420	LCS Dup	8.714	8.714	8.654	8.774	127062247	1149420
ChlorobenzeneD5 (ISTD)	1149420	Blank	8.715	8.714	8.654	8.774	127062249	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MS	11.07	11.07	11.01	11.13	127062252	1149420
1,4-DichlorobenzeneD4 (ISTD)	2356713	MSD	11.07	11.07	11.01	11.13	127062253	1149420
ChlorobenzeneD5 (ISTD)	2356713	MS	8.714	8.714	8.654	8.774	127062252	1149420
ChlorobenzeneD5 (ISTD)	2356713	MSD	8.714	8.714	8.654	8.774	127062253	1149420
1,4-DichlorobenzeneD4 (ISTD)	2357084	Unknown	11.07	11.07	11.01	11.13	127062250	1149420
ChlorobenzeneD5 (ISTD)	2357084	Unknown	8.714	8.714	8.654	8.774	127062250	1149420

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,1,1-Trichloroethane	1149420	18.6	18.5	20.0	70.0 - 130	93.0	92.5	ug/L	0.539	21.0
1,1,2,2-Tetrachloroethane	1149420	23.4	23.5	20.0	60.0 - 140	117	118	ug/L	0.851	36.0
1,1,2-Trichloroethane	1149420	21.7	22.0	20.0	70.0 - 130	108	110	ug/L	1.83	27.0
1,1-Dichloroethane	1149420	18.9	19.5	20.0	70.0 - 130	94.5	97.5	ug/L	3.12	24.0
1,1-Dichloroethylene	1149420	17.3	18.2	20.0	50.0 - 150	86.5	91.0	ug/L	5.07	40.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,2-Dibromoethane (EDB)	1149420	19.0	19.4	20.0	78.4 - 122	95.0	97.0	ug/L	2.08	30.0
1,2-Dichloroethane	1149420	20.5	20.5	20.0	70.0 - 130	102	102	ug/L	0	29.0
1,2-Dichloropropane	1149420	20.8	20.9	20.0	35.0 - 165	104	104	ug/L	0	69.0
Benzene	1149420	19.4	19.3	20.0	65.0 - 135	97.0	96.5	ug/L	0.517	33.0
Bromodichloromethane	1149420	18.3	17.9	20.0	65.0 - 135	91.5	89.5	ug/L	2.21	34.0
Bromoform	1149420	20.2	20.4	20.0	70.0 - 130	101	102	ug/L	0.985	25.0
Bromomethane (Methyl Bromi	1149420	17.5	17.2	20.0	15.0 - 185	87.5	86.0	ug/L	1.73	90.0
Carbon Tetrachloride	1149420	18.9	19.8	20.0	70.0 - 130	94.5	99.0	ug/L	4.65	26.0
Chlorobenzene	1149420	19.0	19.0	20.0	65.0 - 135	95.0	95.0	ug/L	0	29.0
Chloroethane	1149420	16.2	16.0	20.0	40.0 - 160	81.0	80.0	ug/L	1.24	47.0
Chloroform	1149420	18.9	18.6	20.0	70.0 - 135	94.5	93.0	ug/L	1.60	32.0
Chloromethane (Methyl Chloride)	1149420	16.1	15.6	20.0	0.100 - 205	80.5	78.0	ug/L	3.15	472
cis-1,3-Dichloropropene	1149420	16.4	16.2	20.0	25.0 - 175	82.0	81.0	ug/L	1.23	79.0
Dibromochloromethane	1149420	20.6	20.0	20.0	70.0 - 135	103	100	ug/L	2.96	30.0
Dichloromethane	1149420	16.8	18.4	20.0	60.0 - 140	84.0	92.0	ug/L	9.09	192
Ethylbenzene	1149420	19.3	19.9	20.0	60.0 - 140	96.5	99.5	ug/L	3.06	34.0
m-Dichlorobenzene (1,3-DCB)	1149420	19.7	20.1	20.0	70.0 - 130	98.5	100	ug/L	1.51	24.0
Methyl ethyl ketone (Butanone)	1149420	22.3	22.5	20.0	62.3 - 136	112	112	ug/L	0	30.0
o-Dichlorobenzene (1,2-DCB)	1149420	16.0	16.2	20.0	65.0 - 135	80.0	81.0	ug/L	1.24	31.0
p-Dichlorobenzene (1,4-DCB)	1149420	15.0	15.3	20.0	65.0 - 135	75.0	76.5	ug/L	1.98	31.0
Tetrachloroethylene	1149420	20.8	21.1	20.0	70.0 - 130	104	106	ug/L	1.90	23.0
Toluene	1149420	19.0	19.2	20.0	70.0 - 130	95.0	96.0	ug/L	1.05	22.0
trans-1,2-Dichloroethylene	1149420	16.6	17.2	20.0	70.0 - 130	83.0	86.0	ug/L	3.55	27.0
trans-1,3-Dichloropropene	1149420	16.9	16.8	20.0	50.0 - 150	84.5	84.0	ug/L	0.593	52.0
Trichloroethylene	1149420	18.9	19.0	20.0	65.0 - 135	94.5	95.0	ug/L	0.528	29.0
Vinyl chloride	1149420	14.2	13.6	20.0	5.00 - 195	71.0	68.0	ug/L	4.32	100

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
1,1,1-Trichloroethane	2356713	187	191	ND	200	52.0 - 162	93.5	95.5	ug/L	2.12	36.0
1,1,2,2-Tetrachloroethane	2356713	216	223	ND	200	46.0 - 157	108	112	ug/L	3.19	61.0
1,1,2-Trichloroethane	2356713	208	218	ND	200	52.0 - 150	104	109	ug/L	4.69	45.0
1,1-Dichloroethane	2356713	188	197	ND	200	59.0 - 155	94.0	98.5	ug/L	4.68	40.0
1,1-Dichloroethylene	2356713	163	182	ND	200	0.100 - 234	81.5	91.0	ug/L	11.0	32.0
1,2-Dibromoethane (EDB)	2356713	183	191	ND	200	49.3 - 120	91.5	95.5	ug/L	4.28	30.0
1,2-Dichloroethane	2356713	199	202	ND	200	49.0 - 155	99.5	101	ug/L	1.50	49.0
1,2-Dichloropropane	2356713	205	209	ND	200	0.100 - 210	102	104	ug/L	1.93	55.0
Benzene	2356713	191	194	ND	200	37.0 - 151	95.5	97.0	ug/L	1.56	61.0
Bromodichloromethane	2356713	190	195	ND	200	35.0 - 155	95.0	97.5	ug/L	2.60	56.0
Bromoform	2356713	193	191	ND	200	45.0 - 169	96.5	95.5	ug/L	1.04	42.0
Bromomethane (Methyl Bromi	2356713	180	185	ND	200	0.100 - 242	90.0	92.5	ug/L	2.74	61.0
Carbon Tetrachloride	2356713	182	187	ND	200	70.0 - 140	91.0	93.5	ug/L	2.71	41.0
Chlorobenzene	2356713	187	192	ND	200	37.0 - 160	93.5	96.0	ug/L	2.64	53.0
Chloroethane	2356713	158	164	ND	200	14.0 - 230	79.0	82.0	ug/L	3.73	78.0
Chloroform	2356713	245	248	ND	200	51.0 - 138	122	124	ug/L	1.22	54.0

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloromethane (Methyl Chloride)	2356713	168	163	ND	200	0.100 - 273	84.0	81.5	ug/L	3.02	60.0
cis-1,3-Dichloropropene	2356713	156	163	ND	200	0.100 - 227	78.0	81.5	ug/L	4.39	58.0
Dibromochloromethane	2356713	200	206	ND	200	53.0 - 149	100	103	ug/L	2.96	50.0
Dichloromethane	2356713	160	182	ND	200	0.100 - 221	80.0	91.0	ug/L	12.9	28.0
Ethylbenzene	2356713	188	195	ND	200	37.0 - 162	94.0	97.5	ug/L	3.66	63.0
m-Dichlorobenzene (1,3-DCB)	2356713	181	187	ND	200	59.0 - 156	90.5	93.5	ug/L	3.26	43.0
Methyl ethyl ketone (Butanone)	2356713	239	247	ND	200	0.100 - 211	120	124	ug/L	3.29	30.0
o-Dichlorobenzene (1,2-DCB)	2356713	144	151	ND	200	18.0 - 190	72.0	75.5	ug/L	4.75	57.0
p-Dichlorobenzene (1,4-DCB)	2356713	138	143	ND	200	18.0 - 190	69.0	71.5	ug/L	3.56	57.0
Tetrachloroethylene	2356713	199	209	ND	200	64.0 - 148	99.5	104	ug/L	4.90	39.0
Toluene	2356713	186	190	ND	200	47.0 - 150	93.0	95.0	ug/L	2.13	41.0
trans-1,2-Dichloroethylene	2356713	161	173	ND	200	54.0 - 156	80.5	86.5	ug/L	7.19	45.0
trans-1,3-Dichloropropene	2356713	165	170	ND	200	17.0 - 183	82.5	85.0	ug/L	2.99	86.0
Trichloroethylene	2356713	184	193	ND	200	70.0 - 157	92.0	96.5	ug/L	4.77	48.0
Vinyl chloride	2356713	251	282	ND	200	0.100 - 251	126	141	ug/L	11.6	66.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1149420	LCS	19.9	20.0	ug/L	99.5	70.0 - 130	127062246
1,2-DCA-d4 (SURR)	1149420	LCS Dup	20.0	20.0	ug/L	100	70.0 - 130	127062247
1,2-DCA-d4 (SURR)	1149420	Blank	20.3	20.0	ug/L	102	70.0 - 130	127062249
Bromofluorobenzene (SURR)	1149420	LCS	20.6	20.0	ug/L	103	70.0 - 130	127062246
Bromofluorobenzene (SURR)	1149420	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	127062247
Bromofluorobenzene (SURR)	1149420	Blank	18.8	20.0	ug/L	94.0	70.0 - 130	127062249
Dibromofluoromethane (SURR)	1149420	LCS	20.1	20.0	ug/L	100	70.0 - 130	127062246
Dibromofluoromethane (SURR)	1149420	LCS Dup	20.1	20.0	ug/L	100	70.0 - 130	127062247
Dibromofluoromethane (SURR)	1149420	Blank	20.0	20.0	ug/L	100	70.0 - 130	127062249
ToluneneD8 (SURR)	1149420	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	127062246
ToluneneD8 (SURR)	1149420	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	127062247
ToluneneD8 (SURR)	1149420	Blank	18.7	20.0	ug/L	93.5	70.0 - 130	127062249
1,2-DCA-d4 (SURR)	2356713	MS	20.4	20.0	ug/L	102	70.0 - 130	127062252
1,2-DCA-d4 (SURR)	2356713	MSD	20.4	20.0	ug/L	102	70.0 - 130	127062253
Bromofluorobenzene (SURR)	2356713	MS	19.9	20.0	ug/L	99.5	70.0 - 130	127062252
Bromofluorobenzene (SURR)	2356713	MSD	19.6	20.0	ug/L	98.0	70.0 - 130	127062253
Dibromofluoromethane (SURR)	2356713	MS	20.2	20.0	ug/L	101	70.0 - 130	127062252
Dibromofluoromethane (SURR)	2356713	MSD	20.2	20.0	ug/L	101	70.0 - 130	127062253
ToluneneD8 (SURR)	2356713	MS	19.7	20.0	ug/L	98.5	70.0 - 130	127062252
ToluneneD8 (SURR)	2356713	MSD	19.4	20.0	ug/L	97.0	70.0 - 130	127062253
1,2-DCA-d4 (SURR)	2357084	Unknown	20.6	20.0	ug/L	103	70.0 - 130	127062250
Bromofluorobenzene (SURR)	2357084	Unknown	18.6	20.0	ug/L	93.0	70.0 - 130	127062250
Dibromofluoromethane (SURR)	2357084	Unknown	20.5	20.0	ug/L	102	70.0 - 130	127062250
ToluneneD8 (SURR)	2357084	Unknown	18.9	20.0	ug/L	94.5	70.0 - 130	127062250

Analytical Set 1149585 TX 1001

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Tributyltin hydride	1148986	ND	0.005	0.007	ug/L	127067442

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Tributyltin hydride	43600	50000	ug/L	87.2	70.0 - 130		127067441

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Tributyltin hydride	1148986	222	217	500	0.100 - 211	44.4	43.4	ug/L	2.28	30.0

Analytical Set 1149931 — EPA 608.3

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1149464	ND	0.202	0.202	ug/L	127074031
PCB-1221	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1232	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1242	1149464	ND	0.192	0.200	ug/L	127074031
PCB-1248	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1254	1149464	ND	0.143	0.200	ug/L	127074031
PCB-1260	1149464	ND	0.161	0.200	ug/L	127074031
PCB-1262	1149464	ND	0.198	0.200	ug/L	127074031
PCB-1268	1149464	ND	0.143	0.200	ug/L	127074031

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
PCB-1016	1240	1000	ug/L	124	80.0 - 115	*	127074030
PCB-1016	1700	1000	ug/L	170	80.0 - 115	*	127074037
PCB-1260	1080	1000	ug/L	108	80.0 - 115		127074030
PCB-1260	1500	1000	ug/L	150	80.0 - 115	*	127074037

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
PCB-1016	1149464	4.59	4.43	10.0	39.8 - 135	45.9	44.3	ug/L	3.55	30.0
PCB-1260	1149464	4.58	3.99	10.0	36.1 - 134	45.8	39.9	ug/L	13.8	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1149464	Blank	58.9	100	ug/L	58.9	10.0 - 200	127074031
Tetrachloro-m-Xylene (Surr)	1149464	Blank	51.3	100	ug/L	51.3	10.0 - 200	127074031
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	10.0 - 200	127074034
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	10.0 - 200	127074034

Analytical Set 1149957 — EPA 617

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1149462	ND	3.52	5.00	ug/L	127074742

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Methoxychlor	1149462	ND	0.897	1.00	ug/L	127074742
Mirex	1149462	ND	0.905	1.00	ug/L	127074742

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Kelthane (Dicofol)	101	100	ug/L	101	70.0 - 130		127074740
Kelthane (Dicofol)	35.4	100	ug/L	35.4	70.0 - 130	*	127074751
Methoxychlor	50.2	50.0	ug/L	100	70.0 - 130		127074740
Methoxychlor	34.3	50.0	ug/L	68.7	70.0 - 130	*	127074751
Mirex	49.6	50.0	ug/L	99.2	70.0 - 130		127074740
Mirex	47.4	50.0	ug/L	94.7	70.0 - 130		127074751

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1149462	192	184	100	0.100 - 137	192 *	184 *	ug/L	4.26	30.0
Methoxychlor	1149462	131	128	100	21.5 - 151	131	128	ug/L	2.32	30.0
Mirex	1149462	104	100	100	11.6 - 140	104	100	ug/L	3.92	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	45.5	100	ug/L	45.5	10.0 - 150	127074740
Decachlorobiphenyl	627643	CCV	47.2	100	ug/L	47.2	10.0 - 150	127074751
Tetrachloro-m-Xylene (Surr)	627643	CCV	42.3	100	ug/L	42.3	10.0 - 150	127074740
Tetrachloro-m-Xylene (Surr)	627643	CCV	39.5	100	ug/L	39.5	10.0 - 150	127074751
Decachlorobiphenyl	1149462	Blank	58.9	100	ug/L	58.9	10.0 - 150	127074742
Decachlorobiphenyl	1149462	LCS	87.3	100	ug/L	87.3	10.0 - 150	127074743
Decachlorobiphenyl	1149462	LCS Dup	101	100	ug/L	101	10.0 - 150	127074744
Tetrachloro-m-Xylene (Surr)	1149462	Blank	51.3	100	ug/L	51.3	10.0 - 150	127074742
Tetrachloro-m-Xylene (Surr)	1149462	LCS	72.5	100	ug/L	72.5	10.0 - 150	127074743
Tetrachloro-m-Xylene (Surr)	1149462	LCS Dup	63.0	100	ug/L	63.0	10.0 - 150	127074744
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	10.0 - 150	127074745
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	10.0 - 150	127074745

Analytical Set 1150009 EPA 608.3

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1149462	ND	0.731	1.00	ug/L	127076125
4,4-DDE	1149462	ND	0.361	1.00	ug/L	127076125
4,4-DDT	1149462	ND	0.862	1.00	ug/L	127076125
Aldrin	1149462	ND	0.260	1.00	ug/L	127076125
Alpha-BHC(hexachlorocyclohexane)	1149462	ND	0.280	1.00	ug/L	127076125
Beta-BHC(hexachlorocyclohexane)	1149462	ND	0.579	1.00	ug/L	127076125
Chlordane	1149462	ND	0.0183	0.020	ug/L	127076125
Delta-BHC(hexachlorocyclohexane)	1149462	ND	0.898	1.00	ug/L	127076125
Dieldrin	1149462	ND	0.162	1.00	ug/L	127076125
Endosulfan I (alpha)	1149462	ND	0.679	1.00	ug/L	127076125

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Endosulfan II (beta)	1149462	ND	0.356	1.00	ug/L	127076125
Endosulfan sulfate	1149462	ND	0.588	1.00	ug/L	127076125
Endrin	1149462	ND	0.538	1.00	ug/L	127076125
Endrin aldehyde	1149462	ND	0.699	1.00	ug/L	127076125
Gamma-BHC(Lindane)	1149462	ND	0.385	1.00	ug/L	127076125
Heptachlor	1149462	ND	0.207	1.00	ug/L	127076125
Heptachlor epoxide	1149462	ND	0.660	1.00	ug/L	127076125
Toxaphene	1149462	ND	0.169	0.200	ug/L	127076125

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*		*File*
4,4-DDD	49.3	50.0	ug/L	98.6	85.0 - 115		127076123
4,4-DDD	55.3	50.0	ug/L	111	85.0 - 115		127076133
4,4-DDE	46.9	50.0	ug/L	93.8	85.0 - 115		127076123
4,4-DDE	53.5	50.0	ug/L	107	85.0 - 115		127076133
4,4-DDT	51.4	50.0	ug/L	103	85.0 - 115		127076123
4,4-DDT	30.8	50.0	ug/L	61.6	85.0 - 115	*	127076133
Aldrin	45.5	50.0	ug/L	91.0	85.0 - 115		127076123
Aldrin	53.7	50.0	ug/L	107	85.0 - 115		127076133
Alpha-BHC(hexachlorocyclohexane)	47.0	50.0	ug/L	94.0	85.0 - 115		127076123
Alpha-BHC(hexachlorocyclohexane)	54.5	50.0	ug/L	109	85.0 - 115		127076133
Beta-BHC(hexachlorocyclohexane)	45.0	50.0	ug/L	90.0	85.0 - 115		127076123
Beta-BHC(hexachlorocyclohexane)	50.9	50.0	ug/L	102	85.0 - 115		127076133
Delta-BHC(hexachlorocyclohexane)	47.4	50.0	ug/L	94.8	85.0 - 115		127076123
Delta-BHC(hexachlorocyclohexane)	55.4	50.0	ug/L	111	85.0 - 115		127076133
Dieldrin	46.9	50.0	ug/L	93.8	85.0 - 115		127076123
Dieldrin	51.7	50.0	ug/L	103	85.0 - 115		127076133
Endosulfan I (alpha)	44.9	50.0	ug/L	89.8	85.0 - 115		127076123
Endosulfan I (alpha)	49.4	50.0	ug/L	98.8	85.0 - 115		127076133
Endosulfan II (beta)	45.7	50.0	ug/L	91.4	85.0 - 115		127076123
Endosulfan II (beta)	50.2	50.0	ug/L	100	85.0 - 115		127076133
Endosulfan sulfate	49.8	50.0	ug/L	99.6	85.0 - 115		127076123
Endosulfan sulfate	55.1	50.0	ug/L	110	85.0 - 115		127076133
Endrin	46.3	50.0	ug/L	92.6	85.0 - 115		127076123
Endrin	51.2	50.0	ug/L	102	85.0 - 115		127076133
Endrin aldehyde	47.4	50.0	ug/L	94.8	85.0 - 115		127076123
Endrin aldehyde	43.7	50.0	ug/L	87.4	85.0 - 115		127076133
Gamma-BHC(Lindane)	46.5	50.0	ug/L	93.0	85.0 - 115		127076123
Gamma-BHC(Lindane)	47.7	50.0	ug/L	95.4	85.0 - 115		127076133
Heptachlor	44.1	50.0	ug/L	88.2	85.0 - 115		127076123
Heptachlor	37.1	50.0	ug/L	74.2	85.0 - 115	*	127076133
Heptachlor epoxide	44.7	50.0	ug/L	89.4	85.0 - 115		127076123
Heptachlor epoxide	51.2	50.0	ug/L	102	85.0 - 115		127076133

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1149462	116	110	100	32.8 - 155	116	110	ug/L	5.31	40.0
4,4-DDE	1149462	101	94.6	100	29.9 - 133	101	94.6	ug/L	6.54	40.0
4,4-DDT	1149462	133	125	100	30.5 - 141	133	125	ug/L	6.20	40.0
Aldrin	1149462	90.8	79.6	100	19.0 - 121	90.8	79.6	ug/L	13.1	40.0
Alpha-BHC(hexachlorocyclohexane)	1149462	95.0	85.0	100	42.2 - 126	95.0	85.0	ug/L	11.1	40.0
Beta-BHC(hexachlorocyclohexane)	1149462	92.5	85.8	100	47.1 - 157	92.5	85.8	ug/L	7.52	40.0
Delta-BHC(hexachlorocyclohexane)	1149462	107	99.0	100	43.5 - 142	107	99.0	ug/L	7.77	40.0
Dieldrin	1149462	101	93.6	100	34.0 - 132	101	93.6	ug/L	7.61	40.0
Endosulfan I (alpha)	1149462	95.8	88.5	100	40.3 - 129	95.8	88.5	ug/L	7.92	40.0
Endosulfan II (beta)	1149462	101	94.5	100	41.8 - 137	101	94.5	ug/L	6.65	40.0
Endosulfan sulfate	1149462	111	107	100	42.6 - 153	111	107	ug/L	3.67	40.0
Endrin	1149462	104	99.7	100	40.4 - 135	104	99.7	ug/L	4.22	40.0
Endrin aldehyde	1149462	111	105	100	20.3 - 199	111	105	ug/L	5.56	40.0
Gamma-BHC(Lindane)	1149462	95.2	85.3	100	44.5 - 129	95.2	85.3	ug/L	11.0	40.0
Heptachlor	1149462	90.8	78.0	100	17.6 - 134	90.8	78.0	ug/L	15.2	40.0
Heptachlor epoxide	1149462	94.7	87.0	100	38.2 - 125	94.7	87.0	ug/L	8.48	40.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	627643	CCV	45.5	100	ug/L	45.5	0.100 - 129	127076123
Decachlorobiphenyl	627643	CCV	47.2	100	ug/L	47.2	0.100 - 129	127076133
Tetrachloro-m-Xylene (Surr)	627643	CCV	42.3	100	ug/L	42.3	0.100 - 149	127076123
Tetrachloro-m-Xylene (Surr)	627643	CCV	39.5	100	ug/L	39.5	0.100 - 149	127076133
Decachlorobiphenyl	1149462	Blank	58.9	100	ug/L	58.9	0.100 - 129	127076125
Decachlorobiphenyl	1149462	LCS	87.3	100	ug/L	87.3	0.100 - 129	127076126
Decachlorobiphenyl	1149462	LCS Dup	101	100	ug/L	101	0.100 - 129	127076127
Tetrachloro-m-Xylene (Surr)	1149462	Blank	51.3	100	ug/L	51.3	0.100 - 149	127076125
Tetrachloro-m-Xylene (Surr)	1149462	LCS	72.5	100	ug/L	72.5	0.100 - 149	127076126
Tetrachloro-m-Xylene (Surr)	1149462	LCS Dup	63.0	100	ug/L	63.0	0.100 - 149	127076127
Decachlorobiphenyl	2357077	Unknown	0.0421	0.100	ug/L	42.1	0.100 - 129	127076128
Tetrachloro-m-Xylene (Surr)	2357077	Unknown	0.0367	0.100	ug/L	36.7	0.100 - 149	127076128

Analytical Set 1150042 — EPA 615

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1149646	ND	15.9	50.0	ug/L	127077872
2,4,5-TP (Silvex)	1149646	ND	8.93	30.0	ug/L	127077872

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
2,4 Dichlorophenoxyacetic acid	159	150	ug/L	106	80.0 - 115		127077863
2,4 Dichlorophenoxyacetic acid	170	150	ug/L	113	80.0 - 115		127077871
2,4 Dichlorophenoxyacetic acid	179	150	ug/L	119	80.0 - 115	*	127077880
2,4,5-TP (Silvex)	165	150	ug/L	110	80.0 - 115		127077863
2,4,5-TP (Silvex)	169	150	ug/L	113	80.0 - 115		127077871

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Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4,5-TP (Silvex)	171	150	ug/L	114	80.0 - 115	127077880

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1149646	136	138	100	0.100 - 319	136	138	ug/L	1.46	30.0
2,4,5-TP (Silvex)	1149646	104	109	100	0.100 - 244	104	109	ug/L	4.69	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	143	200	ug/L	71.5	0.100 - 313	127077863
2,4-Dichlorophenylacetic Acid		CCV	147	200	ug/L	73.5	0.100 - 313	127077871
2,4-Dichlorophenylacetic Acid		CCV	146	200	ug/L	73.0	0.100 - 313	127077880
2,4-Dichlorophenylacetic Acid	1149646	Blank	107	200	ug/L	53.5	0.100 - 313	127077872
2,4-Dichlorophenylacetic Acid	1149646	LCS	101	200	ug/L	50.5	0.100 - 313	127077873
2,4-Dichlorophenylacetic Acid	1149646	LCS Dup	117	200	ug/L	58.5	0.100 - 313	127077874
2,4-Dichlorophenylacetic Acid	2357077	Unknown	1.37	1.99	ug/L	68.8	0.100 - 313	127077876

Analytical Set 1150158 EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4,5-Tetrachlorobenzene	1149630	ND	0.517	1.00	ug/L	127079848
1,2,4-Trichlorobenzene	1149630	ND	0.720	1.00	ug/L	127079848
1,2-Dichlorobenzene	1149630	ND	0.598	1.00	ug/L	127079848
1,2-DPH (as azobenzene)	1149630	ND	0.695	1.00	ug/L	127079848
1,3-Dichlorobenzene	1149630	ND	0.686	1.00	ug/L	127079848
1,4-Dichlorobenzene	1149630	ND	0.633	1.00	ug/L	127079848
2,4,5-Trichlorophenol	1149630	ND	0.734	1.00	ug/L	127079848
2,4,6-Trichlorophenol	1149630	ND	0.704	1.00	ug/L	127079848
2,4-Dichlorophenol	1149630	ND	0.567	1.00	ug/L	127079848
2,4-Dimethylphenol	1149630	ND	2.32	2.40	ug/L	127079848
2,4-Dinitrophenol	1149630	ND	8.07	9.00	ug/L	127079848
2,4-Dinitrotoluene	1149630	ND	3.35	3.50	ug/L	127079848
2,6-Dinitrotoluene	1149630	ND	0.675	1.00	ug/L	127079848
2-Chloronaphthalene	1149630	ND	0.333	1.00	ug/L	127079848
2-Chlorophenol	1149630	ND	0.367	1.00	ug/L	127079848
2-Methylphenol (o-Cresol)	1149630	ND	5.13	5.20	ug/L	127079848
2-Nitrophenol	1149630	ND	0.495	1.00	ug/L	127079848
3&4-Methylphenol (m&p-Cresol)	1149630	ND	6.15	6.20	ug/L	127079848
3,3'-Dichlorobenzidine	1149630	ND	4.79	5.00	ug/L	127079848
4,6-Dinitro-2-methylphenol	1149630	ND	7.88	8.00	ug/L	127079848
4-Bromophenyl phenyl ether	1149630	ND	0.311	1.00	ug/L	127079848
4-Chlorophenyl phenyl ethe	1149630	ND	0.281	1.00	ug/L	127079848
4-Nitrophenol	1149630	ND	0.932	1.00	ug/L	127079848
Acenaphthene	1149630	ND	0.139	1.00	ug/L	127079848
Acenaphthylene	1149630	ND	0.202	1.00	ug/L	127079848

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Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Aniline	1149630	ND	0.367	1.00	ug/L	127079848
Anthracene	1149630	ND	0.538	1.00	ug/L	127079848
Benzidine	1149630	ND	19.9	20.0	ug/L	127079848
Benzo(a)anthracene	1149630	ND	0.627	1.00	ug/L	127079848
Benzo(a)pyrene	1149630	ND	0.478	1.00	ug/L	127079848
Benzo(b)fluoranthene	1149630	ND	0.517	1.00	ug/L	127079848
Benzo(ghi)perylene	1149630	ND	0.750	1.00	ug/L	127079848
Benzo(k)fluoranthene	1149630	ND	0.763	1.00	ug/L	127079848
Benzyl Butyl phthalate	1149630	0.890	0.696	7.50	ug/L	127079848
Bis(2-chloroethoxy)methane	1149630	ND	0.312	1.00	ug/L	127079848
Bis(2-chloroethyl)ether	1149630	ND	0.434	1.00	ug/L	127079848
Bis(2-chloroisopropyl)ether	1149630	ND	0.448	1.00	ug/L	127079848
Bis(2-ethylhexyl)phthalate	1149630	ND	1.63	7.50	ug/L	127079848
Chrysene (Benzo(a)phenanthrene)	1149630	ND	0.575	1.00	ug/L	127079848
Dibenz(a,h)anthracene	1149630	ND	0.872	1.00	ug/L	127079848
Diethyl phthalate	1149630	ND	0.721	5.70	ug/L	127079848
Dimethyl phthalate	1149630	ND	0.497	4.80	ug/L	127079848
Di-n-butylphthalate	1149630	ND	0.834	7.50	ug/L	127079848
Di-n-octylphthalate	1149630	0.890	0.782	1.00	ug/L	127079848
Fluoranthene(Benzo(j,k)fluorene)	1149630	ND	0.772	1.00	ug/L	127079848
Fluorene	1149630	ND	0.512	1.00	ug/L	127079848
Hexachlorobenzene	1149630	ND	0.187	1.00	ug/L	127079848
Hexachlorobutadiene	1149630	ND	0.618	1.00	ug/L	127079848
Hexachlorocyclopentadiene	1149630	ND	8.69	9.00	ug/L	127079848
Hexachloroethane	1149630	ND	0.789	1.00	ug/L	127079848
Indeno(1,2,3-cd)pyrene	1149630	ND	0.793	1.00	ug/L	127079848
Isophorone	1149630	ND	0.468	1.00	ug/L	127079848
Naphthalene	1149630	ND	0.387	1.00	ug/L	127079848
Nitrobenzene	1149630	ND	0.390	1.00	ug/L	127079848
n-Nitrosodiethylamine	1149630	ND	0.282	1.00	ug/L	127079848
N-Nitrosodimethylamine	1149630	ND	6.64	7.00	ug/L	127079848
n-Nitroso-di-n-butylamine	1149630	ND	0.403	1.00	ug/L	127079848
N-Nitrosodi-n-propylamine	1149630	ND	0.777	1.00	ug/L	127079848
N-Nitrosodiphenylamine (as DPA	1149630	ND	0.427	1.00	ug/L	127079848
p-Chloro-m-Cresol (4-Chloro-3-me	1149630	ND	2.35	2.40	ug/L	127079848
Pentachlorobenzene	1149630	ND	0.420	1.00	ug/L	127079848
Pentachlorophenol	1149630	0.990	0.129	1.00	ug/L	127079848
Phenanthrene	1149630	ND	0.624	1.00	ug/L	127079848
Phenol	1149630	ND	1.50	1.50	ug/L	127079848
Pyrene	1149630	ND	0.587	1.00	ug/L	127079848
Pyridine	1149630	ND	5.33	5.40	ug/L	127079848

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2,4,5-Tetrachlorobenzene	49800	50000	ug/L	99.6	60.0 - 140	127079847

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
1,2,4-Trichlorobenzene	51500	50000	ug/L	103	61.0 - 130	127079847
1,2-Dichlorobenzene	51200	50000	ug/L	102	60.0 - 140	127079847
1,2-DPH (as azobenzene)	62600	50000	ug/L	125	60.0 - 140	127079847
1,3-Dichlorobenzene	51200	50000	ug/L	102	60.0 - 140	127079847
1,4-Dichlorobenzene	49600	50000	ug/L	99.2	60.0 - 140	127079847
2,4,5-Trichlorophenol	48300	50000	ug/L	96.6	69.0 - 130	127079847
2,4,6-Trichlorophenol	47400	50000	ug/L	94.8	69.0 - 130	127079847
2,4-Dichlorophenol	46600	50000	ug/L	93.2	64.0 - 130	127079847
2,4-Dimethylphenol	43200	50000	ug/L	86.4	58.0 - 130	127079847
2,4-Dinitrophenol	37400	50000	ug/L	74.8	39.0 - 173	127079847
2,4-Dinitrotoluene	47700	50000	ug/L	95.4	53.0 - 130	127079847
2,6-Dinitrotoluene	49100	50000	ug/L	98.2	68.0 - 137	127079847
2-Chloronaphthalene	44400	50000	ug/L	88.8	70.0 - 130	127079847
2-Chlorophenol	47800	50000	ug/L	95.6	55.0 - 130	127079847
2-Methylphenol (o-Cresol)	43500	50000	ug/L	87.0	60.0 - 140	127079847
2-Nitrophenol	48100	50000	ug/L	96.2	61.0 - 163	127079847
3&4-Methylphenol (m&p-Cresol)	42900	50000	ug/L	85.8	60.0 - 140	127079847
3,3'-Dichlorobenzidine	55200	50000	ug/L	110	18.0 - 213	127079847
4,6-Dinitro-2-methylphenol	53200	50000	ug/L	106	56.0 - 130	127079847
4-Bromophenyl phenyl ether	63900	50000	ug/L	128	70.0 - 130	127079847
4-Chlorophenyl phenyl ethe	47500	50000	ug/L	95.0	57.0 - 145	127079847
4-Nitrophenol	38700	50000	ug/L	77.4	35.0 - 135	127079847
Acenaphthene	48600	50000	ug/L	97.2	70.0 - 130	127079847
Acenaphthylene	49300	50000	ug/L	98.6	60.0 - 130	127079847
Aniline	37200	50000	ug/L	74.4	60.0 - 140	127079847
Anthracene	53600	50000	ug/L	107	58.0 - 130	127079847
Benzidine	14400	50000	ug/L	28.8	20.0 - 180	127079847
Benzo(a)anthracene	48700	50000	ug/L	97.4	42.0 - 133	127079847
Benzo(a)pyrene	53900	50000	ug/L	108	32.0 - 148	127079847
Benzo(b)fluoranthene	45500	50000	ug/L	91.0	42.0 - 140	127079847
Benzo(ghi)perylene	71900	50000	ug/L	144	13.0 - 195	127079847
Benzo(k)fluoranthene	53000	50000	ug/L	106	25.0 - 146	127079847
Benzyl Butyl phthalate	47800	50000	ug/L	95.6	43.0 - 140	127079847
Bis(2-chloroethoxy)methane	48000	50000	ug/L	96.0	52.0 - 164	127079847
Bis(2-chloroethyl)ether	48400	50000	ug/L	96.8	52.0 - 130	127079847
Bis(2-chloroisopropyl)ether	51300	50000	ug/L	103	63.0 - 139	127079847
Bis(2-ethylhexyl)phthalate	54000	50000	ug/L	108	43.0 - 137	127079847
Chrysene (Benzo(a)phenanthrene)	49600	50000	ug/L	99.2	44.0 - 140	127079847
Dibenz(a,h)anthracene	62700	50000	ug/L	125	13.0 - 200	127079847
Diethyl phthalate	50400	50000	ug/L	101	47.0 - 130	127079847
Dimethyl phthalate	51400	50000	ug/L	103	50.0 - 130	127079847
Di-n-butylphthalate	58400	50000	ug/L	117	52.0 - 130	127079847
Di-n-octylphthalate	46000	50000	ug/L	92.0	21.0 - 132	127079847
Fluoranthene(Benzo(j,k)fluorene)	49800	50000	ug/L	99.6	47.0 - 130	127079847
Fluorene	48000	50000	ug/L	96.0	70.0 - 130	127079847

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Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexachlorobenzene	68100	50000	ug/L	136	38.0 - 142	127079847
Hexachlorobutadiene	56800	50000	ug/L	114	68.0 - 130	127079847
Hexachlorocyclopentadiene	45400	50000	ug/L	90.8	60.0 - 140	127079847
Hexachloroethane	52200	50000	ug/L	104	55.0 - 130	127079847
Indeno(1,2,3-cd)pyrene	63800	50000	ug/L	128	13.0 - 151	127079847
Isophorone	55400	50000	ug/L	111	52.0 - 180	127079847
Naphthalene	49800	50000	ug/L	99.6	70.0 - 130	127079847
Nitrobenzene	51100	50000	ug/L	102	54.0 - 158	127079847
n-Nitrosodiethylamine	43400	50000	ug/L	86.8	60.0 - 140	127079847
N-Nitrosodimethylamine	63100	50000	ug/L	126	60.0 - 140	127079847
n-Nitroso-di-n-butylamine	51700	50000	ug/L	103	60.0 - 140	127079847
N-Nitrosodi-n-propylamine	53900	50000	ug/L	108	59.0 - 170	127079847
N-Nitrosodiphenylamine (as DPA	46500	50000	ug/L	93.0	60.0 - 140	127079847
p-Chloro-m-Cresol (4-Chloro-3-me	46800	50000	ug/L	93.6	68.0 - 130	127079847
Pentachlorobenzene	49700	50000	ug/L	99.4	60.0 - 140	127079847
Pentachlorophenol	48100	50000	ug/L	96.2	42.0 - 152	127079847
Phenanthrene	52500	50000	ug/L	105	67.0 - 130	127079847
Phenol	38200	50000	ug/L	76.4	48.0 - 130	127079847
Pyrene	47300	50000	ug/L	94.6	70.0 - 130	127079847
Pyridine	50600	50000	ug/L	101	60.0 - 140	127079847

DFTPP

Parameter		*RefMass*	*Reading*	*%*	*Limits%*	*File*
DFTPP Mass 127	628072	198	11979	57.2	40.0 - 60.0	127079845
DFTPP Mass 197	628072	198	0	0.0	0 - 1.00	127079845
DFTPP Mass 198	628072	198	20957	100.0	100 - 100	127079845
DFTPP Mass 199	628072	198	1410	6.7	5.00 - 9.00	127079845
DFTPP Mass 275	628072	198	5367	25.6	10.0 - 30.0	127079845
DFTPP Mass 365	628072	198	1221	5.8	1.00 - 100	127079845
DFTPP Mass 441	628072	443	2255	76.0	0 - 100	127079845
DFTPP Mass 442	628072	198	14636	69.8	40.0 - 100	127079845
DFTPP Mass 443	628072	442	2969	20.3	17.0 - 23.0	127079845
DFTPP Mass 51	628072	198	12210	58.3	30.0 - 60.0	127079845
DFTPP Mass 68	628072	69.0	91	0.8	0 - 2.00	127079845
DFTPP Mass 69	628072	198	12052	57.5	0 - 100	127079845
DFTPP Mass 70	628072	69.0	59	0.5	0 - 2.00	127079845

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
1,2,4,5-Tetrachlorobenzene	1149630	18.1	19.6	25.0	27.5 - 85.5	72.4	78.4	ug/L	7.96	50.0
1,2,4-Trichlorobenzene	1149630	17.1	19.0	25.0	44.0 - 142	68.4	76.0	ug/L	10.5	50.0
1,2-Dichlorobenzene	1149630	15.0	18.2	25.0	23.0 - 81.8	60.0	72.8	ug/L	19.3	50.0
1,2-DPH (as azobenzene)	1149630	21.8	22.9	25.0	12.6 - 110	87.2	91.6	ug/L	4.92	50.0
1,3-Dichlorobenzene	1149630	14.2	16.6	25.0	21.1 - 80.5	56.8	66.4	ug/L	15.6	50.0
1,4-Dichlorobenzene	1149630	14.6	16.3	25.0	21.4 - 76.9	58.4	65.2	ug/L	11.0	50.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
2,4,5-Trichlorophenol	1149630	17.5	19.2	25.0	51.3 - 109	70.0	76.8	ug/L	9.26	50.0
2,4,6-Trichlorophenol	1149630	18.1	19.3	25.0	37.0 - 144	72.4	77.2	ug/L	6.42	58.0
2,4-Dichlorophenol	1149630	17.8	18.7	25.0	39.0 - 135	71.2	74.8	ug/L	4.93	50.0
2,4-Dimethylphenol	1149630	9.64	18.1	25.0	23.0 - 120	38.6	72.4	ug/L	60.9	68.0
2,4-Dinitrophenol	1149630	10.3	9.59	25.0	0.100 - 191	41.2	38.4	ug/L	7.04	132
2,4-Dinitrotoluene	1149630	17.0	18.2	25.0	39.0 - 139	68.0	72.8	ug/L	6.82	42.0
2,6-Dinitrotoluene	1149630	19.0	20.2	25.0	50.0 - 158	76.0	80.8	ug/L	6.12	48.0
2-Chloronaphthalene	1149630	18.0	18.6	25.0	60.0 - 120	72.0	74.4	ug/L	3.28	24.0
2-Chlorophenol	1149630	17.1	18.3	25.0	23.0 - 134	68.4	73.2	ug/L	6.78	61.0
2-Methylphenol (o-Cresol)	1149630	15.0	16.9	25.0	38.9 - 76.1	60.0	67.6	ug/L	11.9	50.0
2-Nitrophenol	1149630	17.9	19.0	25.0	29.0 - 182	71.6	76.0	ug/L	5.96	55.0
3&4-Methylphenol (m&p-Cresol)	1149630	12.8	15.1	25.0	33.0 - 70.4	51.2	60.4	ug/L	16.5	50.0
3,3'-Dichlorobenzidine	1149630	20.8	21.6	25.0	0.100 - 262	83.2	86.4	ug/L	3.77	108
4,6-Dinitro-2-methylphenol	1149630	14.2	15.8	25.0	0.100 - 181	56.8	63.2	ug/L	10.7	203
4-Bromophenyl phenyl ether	1149630	22.1	23.2	25.0	53.0 - 127	88.4	92.8	ug/L	4.86	43.0
4-Chlorophenyl phenyl ethe	1149630	17.8	19.2	25.0	25.0 - 158	71.2	76.8	ug/L	7.57	61.0
4-Nitrophenol	1149630	7.01	7.86	25.0	0.100 - 132	28.0	31.4	ug/L	11.4	131
Acenaphthene	1149630	18.2	20.0	25.0	47.0 - 145	72.8	80.0	ug/L	9.42	48.0
Acenaphthylene	1149630	19.1	19.8	25.0	33.0 - 145	76.4	79.2	ug/L	3.60	74.0
Aniline	1149630	15.0	15.3	25.0	70.0 - 130	60.0 *	61.2 *	ug/L	1.98	50.0
Anthracene	1149630	17.9	19.7	25.0	27.0 - 133	71.6	78.8	ug/L	9.57	66.0
Benzidine	1149630	1.38	1.33	25.0	0.100 - 36.9	5.52	5.32	ug/L	3.69	90.0
Benzo(a)anthracene	1149630	19.0	21.2	25.0	33.0 - 143	76.0	84.8	ug/L	10.9	53.0
Benzo(a)pyrene	1149630	19.3	20.4	25.0	17.0 - 163	77.2	81.6	ug/L	5.54	72.0
Benzo(b)fluoranthene	1149630	15.8	20.6	25.0	24.0 - 159	63.2	82.4	ug/L	26.4	71.0
Benzo(ghi)perylene	1149630	23.1	22.6	25.0	0.100 - 219	92.4	90.4	ug/L	2.19	97.0
Benzo(k)fluoranthene	1149630	18.0	17.8	25.0	11.0 - 162	72.0	71.2	ug/L	1.12	63.0
Benzyl Butyl phthalate	1149630	18.8	21.6	25.0	0.100 - 152	75.2	86.4	ug/L	13.9	60.0
Bis(2-chloroethoxy)methane	1149630	19.8	21.0	25.0	33.0 - 184	79.2	84.0	ug/L	5.88	54.0
Bis(2-chloroethyl)ether	1149630	19.9	21.4	25.0	12.0 - 158	79.6	85.6	ug/L	7.26	108
Bis(2-chloroisopropyl)ether	1149630	19.7	21.8	25.0	36.0 - 166	78.8	87.2	ug/L	10.1	76.0
Bis(2-ethylhexyl)phthalate	1149630	20.0	23.3	25.0	8.00 - 158	80.0	93.2	ug/L	15.2	82.0
Chrysene (Benzo(a)phenanthrene)	1149630	19.7	21.4	25.0	17.0 - 168	78.8	85.6	ug/L	8.27	87.0
Dibenz(a,h)anthracene	1149630	22.3	22.6	25.0	0.100 - 227	89.2	90.4	ug/L	1.34	126
Diethyl phthalate	1149630	19.9	21.2	25.0	0.100 - 120	79.6	84.8	ug/L	6.33	100
Dimethyl phthalate	1149630	20.4	21.5	25.0	0.100 - 120	81.6	86.0	ug/L	5.25	183
Di-n-butylphthalate	1149630	20.9	24.1	25.0	1.00 - 120	83.6	96.4	ug/L	14.2	47.0
Di-n-octylphthalate	1149630	14.8	16.3	25.0	4.00 - 146	59.2	65.2	ug/L	9.65	69.0
Fluoranthene(Benzo(j,k)fluorene)	1149630	15.7	18.9	25.0	26.0 - 137	62.8	75.6	ug/L	18.5	66.0
Fluorene	1149630	17.5	18.6	25.0	59.0 - 121	70.0	74.4	ug/L	6.09	38.0
Hexachlorobenzene	1149630	23.9	25.7	25.0	0.100 - 152	95.6	103	ug/L	7.45	55.0
Hexachlorobutadiene	1149630	15.6	17.7	25.0	24.0 - 120	62.4	70.8	ug/L	12.6	62.0
Hexachlorocyclopentadiene	1149630	10.7	11.5	25.0	3.97 - 68.7	42.8	46.0	ug/L	7.21	50.0
Hexachloroethane	1149630	14.5	17.8	25.0	40.0 - 120	58.0	71.2	ug/L	20.4	52.0
Indeno(1,2,3-cd)pyrene	1149630	22.0	23.2	25.0	0.100 - 171	88.0	92.8	ug/L	5.31	99.0

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LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Isophorone	1149630	20.7	22.7	25.0	21.0 - 196	82.8	90.8	ug/L	9.22	93.0
Naphthalene	1149630	16.9	18.7	25.0	21.0 - 133	67.6	74.8	ug/L	10.1	65.0
Nitrobenzene	1149630	20.1	21.4	25.0	35.0 - 180	80.4	85.6	ug/L	6.27	62.0
n-Nitrosodiethylamine	1149630	19.6	20.8	25.0	18.0 - 100	78.4	83.2	ug/L	5.94	50.0
N-Nitrosodimethylamine	1149630	16.8	19.5	25.0	30.2 - 74.9	67.2	78.0 *	ug/L	14.9	50.0
n-Nitroso-di-n-butylamine	1149630	20.8	22.8	25.0	48.4 - 98.5	83.2	91.2	ug/L	9.17	50.0
N-Nitrosodi-n-propylamine	1149630	21.4	23.1	25.0	0.100 - 230	85.6	92.4	ug/L	7.64	87.0
N-Nitrosodiphenylamine (as DPA	1149630	20.1	20.4	25.0	49.3 - 94.2	80.4	81.6	ug/L	1.48	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1149630	17.4	18.0	25.0	22.0 - 147	69.6	72.0	ug/L	3.39	70.0
Pentachlorobenzene	1149630	19.9	20.9	25.0	39.3 - 93.7	79.6	83.6	ug/L	4.90	50.0
Pentachlorophenol	1149630	12.9	14.1	25.0	14.0 - 176	51.6	56.4	ug/L	8.89	86.0
Phenanthrene	1149630	18.2	20.6	25.0	54.0 - 120	72.8	82.4	ug/L	12.4	39.0
Phenol	1149630	7.16	8.06	25.0	5.00 - 120	28.6	32.2	ug/L	11.8	64.0
Pyrene	1149630	20.0	20.9	25.0	52.0 - 120	80.0	83.6	ug/L	4.40	49.0
Pyridine	1149630	10.8	10.8	25.0	11.2 - 50.6	43.2	43.2	ug/L	0	50.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
2,4,6-Tribromophenol	627854	CCV	45300	100000	ug/L	45.3	10.0 - 150	127079847
2-Fluorophenol-SURR	627854	CCV	52300	100000	ug/L	52.3	10.0 - 150	127079847
4-Terphenyl-d14-SURR	627854	CCV	49500	50000	ug/L	99.0	30.0 - 150	127079847
Nitrobenzene-d5-SURR	627854	CCV	47500	50000	ug/L	95.0	30.0 - 150	127079847
Phenol-d6-SURR	627854	CCV	49300	100000	ug/L	49.3	10.0 - 150	127079847
2,4,6-Tribromophenol	1149630	Blank	52.3	100	ug/L	52.3	10.0 - 150	127079848
2,4,6-Tribromophenol	1149630	LCS	60.5	100	ug/L	60.5	10.0 - 150	127079849
2,4,6-Tribromophenol	1149630	LCS Dup	63.4	100	ug/L	63.4	10.0 - 150	127079850
2-Fluorophenol-SURR	1149630	Blank	41600	100000	ug/L	41.6	10.0 - 150	127079848
2-Fluorophenol-SURR	1149630	LCS	46400	100000	ug/L	46.4	10.0 - 150	127079849
2-Fluorophenol-SURR	1149630	LCS Dup	51700	100000	ug/L	51.7	10.0 - 150	127079850
4-Terphenyl-d14-SURR	1149630	Blank	38300	50000	ug/L	76.6	30.0 - 150	127079848
4-Terphenyl-d14-SURR	1149630	LCS	38200	50000	ug/L	76.4	30.0 - 150	127079849
4-Terphenyl-d14-SURR	1149630	LCS Dup	39600	50000	ug/L	79.2	30.0 - 150	127079850
Nitrobenzene-d5-SURR	1149630	Blank	33100	50000	ug/L	66.2	30.0 - 150	127079848
Nitrobenzene-d5-SURR	1149630	LCS	35700	50000	ug/L	71.4	30.0 - 150	127079849
Nitrobenzene-d5-SURR	1149630	LCS Dup	37900	50000	ug/L	75.8	30.0 - 150	127079850
Phenol-d6-SURR	1149630	Blank	26900	100000	ug/L	26.9	10.0 - 150	127079848
Phenol-d6-SURR	1149630	LCS	30400	100000	ug/L	30.4	10.0 - 150	127079849
Phenol-d6-SURR	1149630	LCS Dup	33600	100000	ug/L	33.6	10.0 - 150	127079850
2,4,6-Tribromophenol	2357077	Unknown	58.4	104	ug/L	56.2	10.0 - 150	127079855
2-Fluorophenol-SURR	2357077	Unknown	51.6	104	ug/L	49.6	10.0 - 150	127079855
4-Terphenyl-d14-SURR	2357077	Unknown	35.5	51.8	ug/L	68.5	30.0 - 150	127079855
Nitrobenzene-d5-SURR	2357077	Unknown	39.7	51.8	ug/L	76.6	30.0 - 150	127079855
Phenol-d6-SURR	2357077	Unknown	34.8	104	ug/L	33.5	10.0 - 150	127079855

Analytical Set 1150275 EPA 632

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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Carbaryl (Sevin)	1149461	ND	66.1	2500	ug/L	127082290
Diuron	1149461	506	44.4	45.0	ug/L	127082290

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Carbaryl (Sevin)	851	1000	ug/L	85.1	70.0 - 130	127082289
Carbaryl (Sevin)	869	1000	ug/L	86.9	70.0 - 130	127082293
Carbaryl (Sevin)	880	1000	ug/L	88.0	70.0 - 130	127082296
Carbaryl (Sevin)	877	1000	ug/L	87.7	70.0 - 130	127082299
Carbaryl (Sevin)	949	1000	ug/L	94.9	70.0 - 130	127082302
Diuron	750	1000	ug/L	75.0	70.0 - 130	127082289
Diuron	766	1000	ug/L	76.6	70.0 - 130	127082293
Diuron	775	1000	ug/L	77.5	70.0 - 130	127082296
Diuron	752	1000	ug/L	75.2	70.0 - 130	127082299
Diuron	863	1000	ug/L	86.3	70.0 - 130	127082302

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Carbaryl (Sevin)	1149461	1100	1110	1000	17.1 - 131	110	111	ug/L	0.905	30.0
Diuron	1149461	474	574	1000	0.100 - 138	47.4	57.4	ug/L	19.1	30.0

Analytical Set 1150300 — ASTM D7065-17

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Nonylphenol	1149679	ND	5.00	30.0	ug/L	127082430

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	152000	150000	ug/L	101	70.0 - 130	127082429
Nonylphenol	146000	150000	ug/L	97.6	70.0 - 130	127082445

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	626988	CCV	825700	825700	412900	1239000	127082429	626988
Acenaphthene-d10-ISTD	626988	CCV	815200	825700	412900	1239000	127082445	626988
Phenanthrene-d10-ISTD	626988	CCV	1236000	1236000	618200	1854000	127082429	626988
Phenanthrene-d10-ISTD	626988	CCV	1206000	1236000	618200	1854000	127082445	626988
Acenaphthene-d10-ISTD	1149679	Blank	466900	825700	412900	1239000	127082430	1149679
Acenaphthene-d10-ISTD	1149679	LCS	576000	825700	412900	1239000	127082431	1149679
Acenaphthene-d10-ISTD	1149679	LCS Dup	571600	825700	412900	1239000	127082432	1149679
Phenanthrene-d10-ISTD	1149679	Blank	702200	1236000	618200	1854000	127082430	1149679
Phenanthrene-d10-ISTD	1149679	LCS	820000	1236000	618200	1854000	127082431	1149679
Phenanthrene-d10-ISTD	1149679	LCS Dup	860200	1236000	618200	1854000	127082432	1149679
Acenaphthene-d10-ISTD	2357077	Unknown	695800	825700	412900	1239000	127082436	1149679
Phenanthrene-d10-ISTD	2357077	Unknown	1129000	1236000	618200	1854000	127082436	1149679

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IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	626988	CCV	6.062	6.062	6.002	6.122	127082429	626988
Acenaphthene-d10-ISTD	626988	CCV	6.062	6.062	6.002	6.122	127082445	626988
Phenanthrene-d10-ISTD	626988	CCV	7.242	7.242	7.182	7.302	127082429	626988
Phenanthrene-d10-ISTD	626988	CCV	7.242	7.242	7.182	7.302	127082445	626988
Acenaphthene-d10-ISTD	1149679	Blank	6.056	6.062	6.002	6.122	127082430	1149679
Acenaphthene-d10-ISTD	1149679	LCS	6.056	6.062	6.002	6.122	127082431	1149679
Acenaphthene-d10-ISTD	1149679	LCS Dup	6.062	6.062	6.002	6.122	127082432	1149679
Phenanthrene-d10-ISTD	1149679	Blank	7.242	7.242	7.182	7.302	127082430	1149679
Phenanthrene-d10-ISTD	1149679	LCS	7.242	7.242	7.182	7.302	127082431	1149679
Phenanthrene-d10-ISTD	1149679	LCS Dup	7.242	7.242	7.182	7.302	127082432	1149679
Acenaphthene-d10-ISTD	2357077	Unknown	6.062	6.062	6.002	6.122	127082436	1149679
Phenanthrene-d10-ISTD	2357077	Unknown	7.242	7.242	7.182	7.302	127082436	1149679

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1149679	96.6	96.5	150	56.0 - 112	64.4	64.3	ug/L	0.155	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Nonylphenol	2357921	123	131	ND	164	56.0 - 112	69.5	74.0	ug/L	6.30	22.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	626988	CCV	26500	25000	ug/L	106	50.0 - 130	127082429
4-Nonylphenol-SURR	626988	CCV	26200	25000	ug/L	105	50.0 - 130	127082445
4-Nonylphenol-SURR	1149679	Blank	14300	25000	ug/L	57.2	50.0 - 130	127082430
4-Nonylphenol-SURR	1149679	LCS	15400	25000	ug/L	61.6	50.0 - 130	127082431
4-Nonylphenol-SURR	1149679	LCS Dup	15200	25000	ug/L	60.8	50.0 - 130	127082432
4-Nonylphenol-SURR	2357077	Unknown	26.3	31.1	ug/L	84.6	50.0 - 130	127082436

Analytical Set 1150821 — EPA 622

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1149463	ND	0.0001844	0.050	ug/L	127094728
Chlorpyrifos	1149463	ND	0.0000904	0.050	ug/L	127094728
Demeton	1149463	ND	0.0001628	0.050	ug/L	127094728
Diazinon	1149463	ND	0.0001728	0.050	ug/L	127094728
Malathion	1149463	ND	0.0001864	0.050	ug/L	127094728
Parathion, ethyl	1149463	ND	0.0001168	0.050	ug/L	127094728
Parathion, methyl	1149463	ND	0.000198	0.050	ug/L	127094728

CCV

Parameter	Reading	Known	Units	Recover%	Limits%		File
Azinphos-methyl (Guthion)	1030	1000	ug/L	103	37.0 - 150		127094727
Azinphos-methyl (Guthion)	1560	1000	ug/L	156	37.0 - 150	*	127094732
Chlorpyrifos	1030	1000	ug/L	103	48.0 - 150		127094727

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CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chlorpyrifos	1400	1000	ug/L	140	48.0 - 150	127094732
Demeton	1010	1000	ug/L	101	16.0 - 150	127094727
Demeton	1200	1000	ug/L	120	16.0 - 150	127094732
Diazinon	1020	1000	ug/L	102	50.0 - 150	127094727
Diazinon	1310	1000	ug/L	131	50.0 - 150	127094732
Malathion	1010	1000	ug/L	101	50.0 - 150	127094727
Malathion	1170	1000	ug/L	117	50.0 - 150	127094732
Parathion, ethyl	997	1000	ug/L	99.7	50.0 - 150	127094727
Parathion, ethyl	979	1000	ug/L	97.9	50.0 - 150	127094732
Parathion, methyl	1050	1000	ug/L	105	50.0 - 150	127094727
Parathion, methyl	918	1000	ug/L	91.8	50.0 - 150	127094732

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Azinphos-methyl (Guthion)	1149463	0.844	0.583	1.00	0.100 - 167	84.4	58.3	ug/L	36.6 *	30.0
Chlorpyrifos	1149463	0.760	0.585	1.00	0.100 - 128	76.0	58.5	ug/L	26.0	30.0
Demeton	1149463	0.522	0.403	1.00	0.100 - 119	52.2	40.3	ug/L	25.7	30.0
Diazinon	1149463	0.671	0.505	1.00	0.100 - 143	67.1	50.5	ug/L	28.2	30.0
Malathion	1149463	0.636	0.502	1.00	0.100 - 156	63.6	50.2	ug/L	23.6	30.0
Parathion, ethyl	1149463	0.710	0.547	1.00	0.100 - 148	71.0	54.7	ug/L	25.9	30.0
Parathion, methyl	1149463	0.730	0.505	1.00	0.100 - 154	73.0	50.5	ug/L	36.4 *	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	1030	1000	ug/L	103	0.100 - 115	127094727
Tributylphosphate		CCV	1250	1000	ug/L	125 *	0.100 - 115	127094732
Triphenylphosphate		CCV	1010	1000	ug/L	101	0.100 - 115	127094727
Triphenylphosphate		CCV	1500	1000	ug/L	150 *	0.100 - 115	127094732
Tributylphosphate	1149463	Blank	622	1000	ug/L	62.2	0.100 - 115	127094728
Tributylphosphate	1149463	LCS	733	1000	ug/L	73.3	0.100 - 115	127094729
Tributylphosphate	1149463	LCS Dup	568	1000	ug/L	56.8	0.100 - 115	127094730
Triphenylphosphate	1149463	Blank	669	1000	ug/L	66.9	0.100 - 115	127094728
Triphenylphosphate	1149463	LCS	759	1000	ug/L	75.9	0.100 - 115	127094729
Triphenylphosphate	1149463	LCS Dup	592	1000	ug/L	59.2	0.100 - 115	127094730

Analytical Set 1151420 — EPA 604.1

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Hexachlorophene	1149479	1.26	0.890	2.50	ug/L	127109542

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Hexachlorophene	4730	5000	ug/L	94.6	70.0 - 130	127109541
Hexachlorophene	4540	5000	ug/L	90.8	70.0 - 130	127109554
Hexachlorophene	4780	5000	ug/L	95.6	70.0 - 130	127109558
Hexachlorophene	4620	5000	ug/L	92.3	70.0 - 130	127109561

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1149479	54.7	43.3	50.0	25.5 - 145	109	86.6	ug/L	22.9	50.0

Analytical Set 1149490 — SM 4500-P E-2011

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus (as P), total	0.0571	0.060	mg/L	95.2	70.0 - 130	127063195

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus (as P), total	1149490	ND	0.00311	0.030	mg/L	127063194

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus (as P), total	0.302	0.300	mg/L	101	90.0 - 110	127063196
Phosphorus (as P), total	0.309	0.300	mg/L	103	90.0 - 110	127063209
Phosphorus (as P), total	0.305	0.300	mg/L	102	90.0 - 110	127063224

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus (as P), total	1149490	0.315	0.316	0.300	80.0 - 120	105	105	mg/L	0.317	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus (as P), total	2355718	0.256	0.258	0.147	0.150	70.0 - 130	72.7	74.0	mg/L	1.82	20.0
Phosphorus (as P), total	2357088	1.45	1.49	0.423	1.50	70.0 - 130	68.5 *	71.1	mg/L	3.82	20.0

Analytical Set 1149523 — SM 2510 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1149523	0.879			umhos/cm	127064481

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2356911	1.10	1.05	umhos/cm	4.65	20.0
Lab Spec. Conductance at 25 C	2357943	6.90	6.79	umhos/cm	1.61	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	13000	12900	umhos/cm	101	90.0 - 110	127064484

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1149523	1430	1410	umhos/cm	101	90.0 - 110	127064482
Lab Spec. Conductance at 25 C	1149523	101	100	umhos/cm	101	90.0 - 110	127064483
Lab Spec. Conductance at 25 C	1149523	1420	1410	umhos/cm	101	90.0 - 110	127064496
Lab Spec. Conductance at 25 C	1149523	1420	1410	umhos/cm	101	90.0 - 110	127064520

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Analytical Set 1149811 — SM 2320 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1149811	ND	1.00	1.00	mg/L	127072321

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	24.4	25.0	mg/L	97.6	90.0 - 110	127072320
Total Alkalinity (as CaCO3)	25.4	25.0	mg/L	102	90.0 - 110	127072334
Total Alkalinity (as CaCO3)	25.9	25.0	mg/L	104	90.0 - 110	127072347

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2356352	124	125	mg/L	0.803	20.0
Total Alkalinity (as CaCO3)	2356853	106	111	mg/L	4.61	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	26.4	25.0	mg/L	106	90.0 - 110	127072319

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Alkalinity (as CaCO3)	2356352	143	125	25.0	mg/L	72.0	70.0 - 130	127072324
Total Alkalinity (as CaCO3)	2356853	139	111	25.0	mg/L	112	70.0 - 130	127072337

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

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

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125

Lab Number 2357077
PO Number P2302002
Phone 956/983-6511

Robindale **WWTP Permit Renewal**

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Non-Potable Water

Sample Collection Start
Date: 11-19-2024 Time: 2:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Sample Collection Stop
Date: 11-20-2024 Time: 12:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

9 Amber Glass Qt w/Teflon lined lid

NELAC	!D2S	Table D-1/ D-2 Semivolatiles Exp	EPA 625.1 (7.00 days)
NELAC	!HER	Herbicides by GC	EPA 615 (7.00 days)
NELAC	!PCB	Polychlorinated Biphenyls	EPA 608.3 (7.00 days)
	#DMM	Dicofol/Methoxychlor/Mirex	EPA 617 (7.00 days)
	HXPE	Hexachlorophene Expansion	EPA 604.1 CAS:70-30-4 (7.00 days)
	T1OC	Table 1 Organochlorine Pesticide	EPA 608.3 (7.00 days)
	T1OP	Table 1 Organophosphorous Pestic	EPA 622 (7.00 days)
	TBTE	Butyltin Expansion	TX 1001 (14.0 days)
NELAC	TYLC	Carbaryl/Diuron	EPA 632 (7.00 days)

2 H2SO4 to pH <2 GlQt w/Tef-lined lid

	NYPE	Nonyl Phenol Expansion	ASTM D7065-11 (14.0 days)

0 Z -- No bottle required

	CKLM	Check Limits	
NELAC **Short Hold**	Cr+3	Trivalent Chromium	Calculation CAS:16065-83-1 (1.00 days)

1 HNO3 to pH <2 Polyethylene 500 mL for Metals

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NELAC	***AgM**	Silver, Total	EPA 200.8 5.4 CAS:7440-22-4 (180 days)
NELAC	***AlM**	Aluminum, Total	EPA 200.8 5.4 CAS:7429-90-5 (180 days)
NELAC	***AsM**	Arsenic, Total	EPA 200.8 5.4 CAS:7440-38-2 (180 days)
NELAC	***BaM**	Barium, Total	EPA 200.8 5.4 CAS:7440-39-3 (180 days)
NELAC	***BeM**	Beryllium, Total	EPA 200.8 5.4 CAS:7440-41-7 (180 days)
NELAC	***CdM**	Cadmium, Total	EPA 200.8 5.4 CAS:7440-43-9 (180 days)
NELAC	***CrM**	Chromium, Total	EPA 200.8 5.4 CAS:7440-47-3 (180 days)
NELAC	***CuM**	Copper, Total	EPA 200.8 5.4 CAS:7440-50-8 (180 days)
NELAC	***NiM**	Nickel, Total	EPA 200.8 5.4 CAS:7440-02-0 (180 days)
NELAC	***PbM**	Lead, Total	EPA 200.8 5.4 CAS:7439-92-1 (180 days)
NELAC	***SbM**	Antimony, Total	EPA 200.8 5.4 CAS:7440-36-0 (180 days)
NELAC	***SeM**	Selenium, Total	EPA 200.8 5.4 CAS:7782-49-2 (180 days)
NELAC	***TlM**	Thallium, Total	EPA 200.8 5.4 CAS:7440-28-0 (180 days)
NELAC	***ZnM**	Zinc, Total	EPA 200.8 5.4 CAS:7440-66-6 (180 days)
	301L	Liquid Metals Digestion	EPA 200.2 2.8 (180 days)

1 Glass /clean metals w/HCl

NELAC	***Hgl**	Mercury, Total (low level)	EPA 245.7 2 CAS:7439-97-6 (90.0 days)
NELAC	**2451**	Low Level Mercury Liquid Metals	EPA 245.7 2 (90.0 days)

1 Polyethylene Quart

NELAC	**!FlL**	Fluoride	EPA 300.0 2.1 (28.0 days)

1 Cr+6 Preserved 250 Polyethylene

NELAC **Short Hold**	**Cr+6**	Hexavalent Chromium	SM 3500-Cr B-2011 CAS:18540-29-9 (1.00 days)

Ambient Conditions/Comments

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Date	Time	Relinquished		Received	
11-20-24	13:47	Printed Name: Javier Aguirre	Affiliation: Brownsville PUB	Printed Name:	Affiliation: SPL
		Signature:		Signature:	
11-20-24	17:20	Printed Name:	Affiliation:	Printed Name: FedEx	Affiliation:
		Signature:		Signature:	
11/21/24	1030	Printed Name: FedEx	Affiliation:	Printed Name: Ashley Vasquez - SPL, Inc.	Affiliation:
		Signature:		Signature:	
		Printed Name:	Affiliation:	Printed Name:	Affiliation:
		Signature:		Signature:	

Sample Received on Ice? [X] Yes [ ] No
Cooler/Sample Secure? [X] Yes [ ] No If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

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126

Lab Number 23S-7078
PO Number P2302002
Phone 956/983-6511

Robindale WWTP Permit Renewal

☐ Hand Delivered by Client to Region or LAB

Matrix: Non-Potable Water

Sample Collection Start
Date: 11-19-2024 Time: 2:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Sample Collection Stop
Date: 11-20-2024 Time: 12:00 PM
Sampler Printed Name: Javier Aguirre
Sampler Affiliation: Brownsville PUB
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

1 Polyethylene 1/2 gal (White)

NELAC	**Short Hold**	**BODc**	BOD Carbonaceous	SM 5210 B-2016 (TCMP Inhibitor) (2.04 days)
NELAC		**TSS**	Total Suspended Solids	SM 2540 D-2015 (7.00 days)

1 H2SO4 to pH <2 250 ml Polyethylene

NELAC		**NHaN**	Ammonia Nitrogen	EPA 350.1 2 (28.0 days)
NELAC		**TKN**	Total Kjeldahl Nitrogen	EPA 351.2 2 CAS:7727-37-9 (28.0 days)
NELAC		**TPWB**	Phosphorus (as P), total	SM 4500-P E-2011 CAS:7723-14-0 (28.0 days)

1 Polyethylene Quart

NELAC		**!ClL**	Chloride	EPA 300.0 2.1 (28.0 days)
NELAC	**Short Hold**	**!N3L**	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)
NELAC		**!S4L**	Sulfate	EPA 300.0 2.1 (28.0 days)
NELAC		**AlkT**	Total Alkalinity (as CaCO3)	SM 2320 B-2011 (14.0 days)
NELAC		**CONL**	Lab Spec. Conductance at 25 C	SM 2510 B-2011 (28.0 days)
NELAC		**TDS**	Total Dissolved Solids	SM 2540 C-2015 (7.00 days)

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Date	Time	Relinquished	Received
11-20-24	13:47	Printed Name: Javier Aguirre Affiliation: Brownsville PUB Signature	Printed Name: Affiliation: Signature
11-20-24	17:30	Printed Name: Affiliation: Signature	Printed Name: FedEx Affiliation: Signature
11/21/24	1030	Printed Name: Affiliation: Signature	Printed Name: Ashley Vasquez - SPL, Inc. Affiliation: Signature
		Printed Name: Affiliation: Signature	Printed Name: Affiliation: Signature

Sample Received on Ice? Yes / No
Cooler/Sample Secure? Yes / No

If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

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Lab Number 2351084
PO Number P2302002
Phone 956/983-6511

Robindale WWTP Permit

☐ *Hand Delivered by Client to Region or LAB*

Matrix: Non-Potable Water

Sample Collection Start
Date: 11-20-2024 Time: 9:30
Sampler Printed Name: J. Manjarrez
Sampler Affiliation: SPL
Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 On Site Testing

ClCk Field Cl2 Check for CNa

Field Cl2 Check for CNa

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:32
Results Negative Units — Temp. — C Duplicate Negative Units — Temp. — C
R1 — R2 — QC R1 — QC R2 —

NELAC Short Hold DO Dissolved Oxygen Onsite SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen Onsite

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:40
Results 7.03 Units mg/L Temp. 27.3° C Duplicate 6.95 Units mg/L Temp. 27.6° C

NELAC Short Hold pH pH (Onsite) SM 4500-H+ B-2011 (0.0104 days)

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pH (Onsite)

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:36

Results 6.99 Units S.U Temp. 27.6 C Duplicate 7.04 Units S.U Temp. 27.8 C

S2Ck Field Sulfide Check for CNa

Field Sulfide Check for CNa

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:33

Results Neg Units — Temp. — C Duplicate Neg Units — Temp. — C
R1 — R2 — QC R1 — QC R2 —

NELAC **Short Hold** | **Temp** | Temperature (onsite) | SM 2550 B - 2010 (0.0104 days)

Temperature (onsite)

Collected By JM2 Date 11-20-24 Time 9:30 Analyzed By JM2 Date 11-20-24 Time 9:35

Results 27.6° Units °C Duplicate 27.8° Units °C

---

[2] **Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid**

NELAC **Short Hold** | **$AAE** | Acrolein/Acrylonitrile Exp. | EPA 624.1 (3.00 days)

[2] **H2SO4 to pH <2 GlQt w/Tef-lined lid**

NELAC | **HEM** | Oil and Grease (HEM) | EPA 1664B (HEM) (28.0 days)

[1] **H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid**

NELAC | **Phna** | Phenolics, Total Recoverable | EPA 420.4 1 (28.0 days)

[3] **Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)**

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Short Hold	!D2V	Table D-1/D-2 Volatile Expansion	EPA 624.1 (3.00 days)

2 NaOH to pH >12 Polyethylene 250 mL/amber

NELAC	**CNa**	Cyanide, total	SM 4500-CN⁻ E-2016 (14.0 days)
NELAC	**CN-A**	Cyanide - Available/Amenable	SM 4500-CN⁻ G-2016 (14.0 days)
NELAC	**CNCl**	Cyanide After Chlorination	SM 4500-CN⁻ G-2016 (14.0 days)

Ambient Conditions/Comments

Date	Time	Relinquished		Received	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
11/20/24	17:20	*Signature*	SPL	*Signature*	
		Printed Name	*Affiliation*	*Printed Name* Ashley Vasquez - SPL, Inc.	*Affiliation*
11/21/24	1030	*Signature*		*Signature*	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
		Signature		*Signature*	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
		Signature		*Signature*	

Sample Received on Ice? ☒ *Yes* ☐ *No*
Cooler/Sample Secure? ☐ *Yes* ☐ *No* If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000123.

Comments

FedEx Express
Package
US Airbill
8171
FedEx Tracking Number
1 From
Date
Sender's Name
Phone
Company
Address
City
State
ZIP
2 Your Internal Billing Reference
3 To
Recipient's Name
Phone
Company
Address
Dept./Floor/Suite/
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Address
Use this line for the HOLD location address or for continuation of your shipping address.
City
State
ZIP
8171 3103 6180
fedex.com 1.800.GoFedEx 1.800.463.3339
ORIGIN ID:HRLA (555) 555-5555
ANA L
2401 VILLAGE DR STE C
BROWNSVILLE, TX 78521
UNITED STATES US
SHIP DATE: 20NOV24
ACTWGT: 83.75 LB
CAD: 6894257/SSFE2560
DIMS: 24x14x13 IN
BILL THIRD PARTY
Part # 156297-435 HRDB EXP 08/25
Recipient's Copy
2A
2B
fedex.com 1.800.GoFedEx 1.800.463.3339
TO LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75662
(555) 555-5555
REF
THU
PO1
342-3574
PRIORITY OVERNIGHT
75662-3700-00
SPL
2600 DUDLEY RD
KILGORE TX
THU 11/21 07:48
Other
Signature
TRK# 8171 3103 6180
0200
XS GGGA
THU - 21 NOV 10:30A
PRIORITY OVERNIGHT
75662
TX-US SHV
Date
Time
Tech
Temp: 0.6 0.7 C
Therm#: 6443 Corr Fact: 0.1 C
644

1126302 CoC Print Group 001 of 002

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

SPL The Science of Sure

CHAIN OF CUSTODY

Printed 11/20/2024 Page 1 of 2

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

PUB6 -R 138

Lab Number 235969
PO Number P2302002
Phone 956/983-6511

Robindale ***WWTP Permit Renewal***

☐ *Hand Delivered by Client to Region or LAB*

Enterococci and E. Coli subcontracted to the City of Corpus Christi Water Utilities Laboratory
Matrix: Non-Potable Water

Sample Collection Start

Date: 11-21-24 Time: 9:40

Sampler Printed Name: Joel Manjarrez

Sampler Affiliation: SPL

Sampler Signature:

Samples Radioactive? ☐ Samples Contains Dioxin? ☐ Samples Biological Hazard? ☐

0 On Site Testing

NELAC	**Cl2O**	Cl2 Res.,Total(Onsite)Spec Mid	SM 4500-Cl G-2011

Cl2 Res.,Total(Onsite)Spec Mid

Collected By JM2 Date 11-21-24 Time 9:40 Analyzed By JM2 Date 11-21-24 Time 9:45

Results ND Units mg/L Temp. 26.2° C Duplicate ND Units mg/L Temp. 26.1° C
R1 0.02 R2 0.01 QC R1 0.02 QC R2 0.01

---

1 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized

Subcontract	**ERGV**	MPN, E.coli, Coli-18 - WW sub	Subcontract CAS:CCWU

Ambient Conditions/Comments

* Sample sent to Corpus Christi Lab JM2

1126302 CoC Print Group 002 of 002

2600 Dudley Rd. Kilgore, Texas 75662
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

CHAIN OF CUSTODY

Printed 11/20/2024 Page 2 of 2

Public Utilities Board
R.Capistran/J Lechuga
1425 Robinhood Drive
Brownsville, TX 78520-

PUB6 -R
138

Date	Time	Relinquished		Received	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
11-20-24	17:30	*Signature*	SPL	*Signature*	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
		Signature		*Signature*	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
		Signature		*Signature*	
		Printed Name	*Affiliation*	*Printed Name*	*Affiliation*
		Signature		*Signature*	

Sample Received on Ice? ☐ *Yes* ☐ *No*
Cooler/Sample Secure? ☐ *Yes* ☐ *No* If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments

KIL-F-F2050-12
PAGE: 1 of 1
ISSUED: 2/13/2024
EFFECTIVE: 02/15/2024

KIL-F-F2050-12 – CL2 FIELD TRACEABILITY/ REV 12

Test Code: Cl2O ( ) / C2FO ( ) / Cl2o ( ) / Mn Correction Only ( ) Project 1126302
SM 4500-Cl G

Date / Time / Tech 11-20-24 / 9:15 / JMZ Set # CCK 1149003
S2 CCK 1149178

Traceability					
Meter	EQ# 5434		Gel Standards / #	HR ( ) C#	Exp:
Sodium Arsenite $NaAsO_2$ (5g/L)	SW# 627014	Exp: 9/12/25		MR ( ) C#	Exp:
Potassium Iodide KI (30g/L)	C# 577557	Exp: 12/25/25		LR (X) C# 579838	Exp: 1/31/25
Sulfuric Acid H_2SO_4 (1N)	C# 579282	Exp: 7/31/27	DPD Type / #	Total (X) C# 580969	Exp: 2/28/29
Sodium Hydroxide NaOH (1N)	C# 577556	Exp: 10/31/25		Free ( ) C#	Exp:
pH Strips	S# 25840	Exp:	Potassium Permanganate LFB (LCS)	SW# 622866	Exp: 2/8/25

Gel Standards			
Standard	Known Value (mg/L)	Acceptance Range	Reading (mg/L)
1. Blank	0.0	0.0	0.00
2. +/- 0.09	0.22	0.13 - 0.31	0.23
3. +/- 0.10	0.93	0.83 - 1.03	0.94
4. +/- 0.14	1.58	1.44 - 1.72	1.58

Potassium Permanganate / LFB (LCS)		
Known Value (mg/L)	Acceptance Range	Reading (mg/L)
0.84	0.50 - 1.18	0.89

Acceptance Range = (Known Value – Error) to (Known Value + Error)
Example: Known = 0.21 mg/L, Error = 0.09 mg/L, Acceptance Range = 0.12 to 0.30 mg/L
Reading must be within the Acceptance Range

One (1) duplicate is required for every 10 samples analyzed **per day**. Duplicate Acceptance Limits: **20% RPD**

Duplicates were analyzed on the following client codes: PW136

J:\word\SOP\Active\Data Sheets\On-Site\KIL-F-F2050-12 – CL2 FIELD TRACEABILITY.docx
Issuing Authority: TWV, QM

City of Corpus Christi
Water Utilities Laboratory
13101 Leopard Street
361-826-1200 Fax: 361-242-9131

Analytical Report

Client Info SPL-INC
2600 Dudley Rd.
Kilgore, TX 75662

Phone: **EMAIL:** Kilgore.Projectmanagement@splla

Report# /Lab ID#: AC45234 **Report Date:** 11/22/24
Sample Name: ROBINDALE WWTP
Date Received: 11/21/2024 **Time:** 13:48
Date Sampled: 11/21/2024 **Time:** 09:40

Parameter	Result	Unit	Flag	RL [5]	Date/Time Analyzed	Method	Analyst	Analysis Comments
E. coli (MPN)	5.2	MPN		1.0	11/21/24 14:12	SM 9223 B - Coli	MONICAS	

Sample Comments:

This analytical report is respectfully submitted by the Water Utilities Laboratory. The enclosed results reflect only the sample(s) identified above. The results have been carefully reviewed and, unless otherwise indicated, meet the NELAC requirements as described by the Water Utilities Lab's QA/QC program. No part of this report shall be reproduced or transmitted in any form or by any means without the written consent of the City of Corpus Christi-Water Utilities Lab.

Respectfully Submitted,



Technical Director (or designee)

1. Quality assurance data for the sample batch which included this sample.
2. Precision (PREC) is the absolute value of the relative percent difference between duplicate results .
3. Recovery (RECOV) is the percent of analyte recovered from a spiked sample.
4. Laboratory Control Sample (LCS) results are expressed as the percent recovery of analyte.
5. Reporting Limit (RL), typically at or above the Limit of Quantitation (LOQ) of the analytical method.
6. Data Qualifiers:

N=Analysis not performed as per client request. **H**=Sample exceeded holding time. **P**=Analysis is from an unpreserved sample. **J**=Value reported is less than the RL but greater than the MDL.
X=MS/MSD recovery or duplicates analysis exceeded the acceptance limit or Standard failed. **LA**=Lab accident. **LE**=Lab error. **OA**=Outside the scope of the lab's NELAC accreditation.
U=Unsuitable; sample turned turbid after incubation. **T**=Sample below temp requirement; not on ice. **EQ**=Equipment failure. **I**=Information on sample bottle and COC does not match.
S=Slow to filter; sample contains floc and/or large amount of residue on filter. **O**=Analysis performed by an outside NELAC accredited lab; **O^**=Analysis flagged by outside laboratory.
Z=Too many colonies present to provide a result (TNTC). **A**=Value reported is the mean of two or more determinations. **R**=Reagent water contamination suspected. **B**=Sample broken in transit.
NI=Not analyzed due to interferences. **K**=BOD result estimated due to blank exceeding the allowable oxygen depletion. **D**=Sample dilution required for analysis/ quality control.
SC=BOD/CBOD calculated using a seed correction factor not within acceptable range. **QB**=No QC data assigned to sample; sample result not affected.
EL=Oxygen usage is less than 2mg/L for all dilutions analyzed. The reported value is an estimated less than value and is calculated for the dilution containing the greatest concentration of sample.
EG=Less than 1mg/L DO remained for all dilutions analyzed. The reported value is an estimated greater than value and is calculated for the dilution containing the least concentration of sample.
E= The data exceed the upper calibration limit; therefore the concentration is reported as an estimate.

CHAIN OF CUSTODY RECORD

Client Name: SPL LABS
Address: 2600 Dudley Rd.
City: Kilgore State: TX Zip: 75662
Phone: (903) 984 - 0551 Fax: (903) 984 - 5914

Send Email report to: kilgore.projectmanagement.spllabs.com
cc: joel.manjarrez@spllabs.com

PUBG

City of Corpus Christi

Water Utilities Laboratory
13101 Leopard St.
Corpus Christi, TX 78410
Ph: (361) 826-1200
Fax: (361) 242-9131

NELAP ACCREDITED LABORATORY

Sampler: (PLEASE PRINT) Joel Manjarrez

	Sample ID	Lab ID# (Lab Use Only)	Date Sampled	Time Sampled	Grab	Composite	Other	No. of Containers/ Preservative: H_2SO_4	HNO_3	Thio	None	Matrix: WW Influent	WW Effluent	Water	Other - Specify	Residual Chlorine: Total mg/L ☑ / Free mg/L ☐	Analyze For: CBOD	BOD	TSS	TDS	Ammonia-N	TKN	Chloride	Sulfate	Phosphorus	Nitrate	Nitrite	Total Alkalinity	TOC	Fecal Coliform	Total Coliform	Enterococci	E. coli	Other*
1	Rebuddle WWTP Perm	AC45234	11.21.24	940	X					X			X			0.0																X	
2																																	
3																																	
4																																	
5																																	
6																																	

Relinquished By:	Date: 11.21.24	Time: 10:30	Special Instructions/Comments:
Received By:	Date: 11.21.24	Time: 10:50	Other* -
Relinquished By:	Date: 11.21.24	Time: 1349	
Received By: Vpaz	Date: 11.21.24	Time: 1348	
Relinquished By:	Date:	Time:	***** For Laboratory Use Only *****
Received By:	Date:	Time:	Sample(s) on Ice: (YES) NO — pH Strip Lot/ ID:
Relinquished By:	Date:	Time:	Receiving Temp (°C): 5.3 — pH < 2? YES NO Line(s) #:
Received By:	Date:	Time:	Corrected Temp (°C): 5.3 — Data Flag(s):
			Temp. Device ID: 13

Technical Report 1.1 - Worksheet 6.0

ATTACHMENT M (page 61)

Robindale WWTP - Noncompliance Notification Forms

Water Quality Noncompliance Notification

See back of Form for Guidance for Completion

☐ Unauthorized Discharge ☒ Reportable Effluent Violation ☐ Other

General Information

Entity Name: Brownsville Public Utilities Board **Telephone No (##########):** (956) 983-6100

☒ Permittee ☐ Subscriber **TCEQ Region:** R15 - Harlingen **County:** Cameron ***Permit Number:** WQ0010397005

Noncompliance Summary

Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

On March 28, 2022, BPUB exceeded the E. Coli max permit limit of 399 MPN/100 ml by 816.4 MPN/100 ml via Outfall 001 at Robindale WWTP. A total of 8.591 million gallons were treated and discharged to designated receiving stream. We became aware of the results on March 29, 2022 at 9:23 a. m. Probable cause: Based on normal parameters of TSS/CBOD concentration for Outfall discharge 001 and normal operations for the ultraviolet disinfection system during sample collection, it was determined that sample contamination may have occurred.

Duration: **Start Date:** 3/28/22 **End Date:** 3/28/22 **Or** **Date Expected to be Corrected:** 3/28/22

Time: 06:00 AM **Time:** 06:00 AM

Potential Danger to Human Health and Safety or the Environment:

There was no danger to human health or environment.

Actions Taken

Monitoring Data: Data should be attached or submitted to TCEQ when available.

Field Measurements ☒ Yes ☐ No

Laboratory Samples ☒ Yes ☐ No

Fish Kill(If yes, estimated number killed): ☐ Yes ☒ No

Actions Taken to Mitigate Adverse Effects:

No adverse effects have been noted or reported.

Actions Taken to Correct the Problem and Prevent Recurrence:

Will review sample collection procedures with operators that collect daily samples and will ensure that UV disinfection system continues to work optimally for proper disinfection process.

Verification Information

Information Reported By (Name/Title): Robert Castillo / Chief Operator **Date Reported:** Mar 29, 2022

Signature: R Castillo

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

*** If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.**

Water Quality Noncompliance Notification

See back of Form for Guidance for Completion

☐ Unauthorized Discharge ☒ Reportable Effluent Violation ☐ Other

General Information

Entity Name: Brownsville Public Utilities Board **Telephone No (##########):** 956-983-6100

☒ Permittee ☐ Subscriber **TCEQ Region:** R15 **County:** Cameron ***Permit Number:** WQ0010397003

Noncompliance Summary

Description and Cause of Noncompliance (include location, discharge route, and estimated volume of unauthorized discharge):

On August 17, 2023, the BPUB Robindale WWTP exceeded the ammonia daily max permit limit of 10 mg/L by 14.7 mg/L. A total of 8.247 million gallons were treated and discharged via outfall 001 into designated receiving stream. We became aware of the violation on August 18, 2023 at 14:30. The cause of the violation was due to one of two blowers being down for repairs which lasted more than 12 hours, therefore low dissolved oxygen concentrations affected on ammonia nitrogen reduction.

Duration:

Start Date: 8/17/2023 **End Date:** 8/17/2023 **Or** **Date Expected to be Corrected:**

Time: 10:00 **Time:** 22:00

Potential Danger to Human Health and Safety or the Environment:

No adverse effects have been noted or reported.

Actions Taken

Monitoring Data: Data should be attached or submitted to TCEQ when available.

Field Measurements ☐ Yes ☒ No

Laboratory Samples ☐ Yes ☒ No

Fish Kill(If yes, estimated number killed): ☐ Yes ☒ No

Actions Taken to Mitigate Adverse Effects:

The Robindale WWTP has visually monitor the receiving stream (upstream and downstream). No adverse effects have been noted or reported to this day.

Actions Taken to Correct the Problem and Prevent Recurrence:

The blower has been repaired and is now back in operation. Robindale WWTP is currently going under construction to add two more multistage blowers to add redundancy to the aeration system.

Verification Information

Information Reported By (Name/Title): Victor H. Martinez/WW Operat **Date Reported:** 8/18/2023

Signature:

Note: If this form is being used for a 5-day written report, a copy of the form should be sent to the TCEQ Region Office, and the original to: TCEQ, Compliance Monitoring Team (MC224), Enforcement Division, P.O. Box 13087, Austin, TX 78711-3087.

*** If the noncompliance is an unauthorized discharge from a wastewater collection system, use the permit number of the treatment plant to which the collection system is tied. If you are uncertain of this permit number, you may call the TCEQ Regional Office for assistance.**

DMR Copy of Record

Permit

Permit #:	**TX0071340**	**Permittee:**	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	**Facility:**	ROBINDALE WWTP
Major:	Yes	**Permittee Address:**	PO BOX 3270 BROWNSVILLE, TX 78520	**Facility Location:**	3208 ROBINDALE ROAD BROWNSVILLE, TX 78526
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** DOMESTIC FACILITY - 001		

Report Dates & Status

Monitoring Period:	**From 10/01/23 to 10/31/23**	**DMR Due Date:**	**11/20/23**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Ramiro	**Title:**	Environmental Manager	**Telephone:**	956-983-6511
Last Name:	Capistran				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	**Oxygen, dissolved [DO]**	1 - Effluent Gross	0	--	Sample						=	7.1					19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.						>=	5.0 MO MIN					19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	6.35			=	7.41	12 - SU		01/01 - Daily	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB
					Value NODI															
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample	=	225.0			26 - lb/d			=	3.36	=	5.7	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															
X 00610	**Nitrogen, ammonia total [as N]**	1 - Effluent Gross	0	--	Sample	=	99.0			26 - lb/d			=	1.46	=	11.1	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	484.0 DAILY AV			26 - lb/d			<=	4.0 DAILY AV	<=	10.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	0	--	Sample	=	8.054	=	9.419	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Permit Req.		Req Mon DAILY AV		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	TM - TOTALZ
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	P - See Comments	0	--	Sample			=	10175.0	78 - gal/min									99/99 - Continuous	TM - TOTALZ
					Permit Req.			<=	30208.0 2HR PEAK	78 - gal/min									99/99 - Continuous	TM - TOTALZ
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	Y - Effluent Gross (Supplementary)	0	--	Sample	=	7.944			03 - MGD									99/99 - Continuous	TM - TOTALZ
					Permit Req.	<=	14.5 ANNL AVG			03 - MGD									99/99 - Continuous	TM - TOTALZ
					Value NODI															
51041	**E. coli, colony forming units [CFU]**	1 - Effluent Gross	0	--	Sample								=	1.0	=	2.0	3Z - CFU/100mL		01/01 - Daily	GR - GRAB
					Permit Req.								<=	126.0 DAILY AV	<=	399.0 DAILY MX	3Z - CFU/100mL		01/01 - Daily	GR - GRAB
					Value NODI															
80082	**BOD, carbonaceous [5 day, 20 C]**	1 - Effluent Gross	0	--	Sample	=	105.0			26 - lb/d			=	1.57	=	3.03	19 - mg/L		01/01 - Daily	CP - COMPOS
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - COMPOS
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

The Nitrogen Ammonia Daily Max limit (10.0 mg/L) was exceeded during the month of October (11.1 mg/L). The TCEQ Regional Office was notified over the phone on 10/17/2023. Note: Result did not exceed the effluent limit by 40%, therefore, no NCN written report was required.

Attachments

No attachments.

Report Last Saved By	
PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	
User:	JOSLECHUGA
Name:	Jose Lechuga
E-Mail:	jlechuga@brownsville-pub.com
Date/Time:	2023-11-15 10:26 (Time Zone: -06:00)
Report Last Signed By	
User:	BPUBRAMIRO
Name:	Ramiro Capistran
E-Mail:	rcapistran@brownsville-pub.com
Date/Time:	2023-11-17 14:00 (Time Zone: -06:00)

DMR Copy of Record

Form Approved OMB No. 2040-0004 expires on 07/31/2026

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(l)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit

Permit #:	**TX0071340**	**Permittee:**	PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS	**Facility:**	ROBINDALE WWTP
Major:	Yes	**Permittee Address:**	PO BOX 3270 BROWNSVILLE, TX 78520	**Facility Location:**	3208 ROBINDALE ROAD BROWNSVILLE, TX 78526
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** DOMESTIC FACILITY - 001		

Report Dates & Status

Monitoring Period:	**From 12/01/24 to 12/31/24**	**DMR Due Date:**	**01/20/25**	**Status:**	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Ramiro	**Title:**	Environmental Manager	**Telephone:**	956-983-6511
Last Name:	Capistran				

No Data Indicator (NODI)

Form NODI: --

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	**Oxygen, dissolved [DO]**	1 - Effluent Gross	0	--	Sample						=	6.9					19 - mg/L		01/01 - Daily	GR - Grab
					Permit Req.						>=	5.0 MO MIN					19 - mg/L		01/01 - Daily	GR - Grab
					Value NODI															
00400	**pH**	1 - Effluent Gross	0	--	Sample						=	6.72			=	7.64	12 - SU		01/01 - Daily	GR - Grab
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/01 - Daily	GR - Grab
					Value NODI															
00530	**Solids, total suspended**	1 - Effluent Gross	0	--	Sample	=	201.0			26 - lb/d			=	2.67	=	4.4	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															
X 00610	**Nitrogen, ammonia total [as N]**	1 - Effluent Gross	0	--	Sample	=	87.0			26 - lb/d			=	1.14	=	12.1	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	484.0 DAILY AV			26 - lb/d			<=	4.0 DAILY AV	<=	10.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	1 - Effluent Gross	0	--	Sample	=	8.875	=	13.493	03 - MGD									99/99 - Continuous	TM - Totalizer
					Permit Req.		Req Mon DAILY AV		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	TM - Totalizer
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	P - See Comments	0	--	Sample			=	14775.0	78 - gal/min									99/99 - Continuous	TM - Totalizer
					Permit Req.			<=	30208.0 2HR PEAK	78 - gal/min									99/99 - Continuous	TM - Totalizer
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	Y - Effluent Gross (Supplementary)	0	--	Sample	=	8.388			03 - MGD									99/99 - Continuous	TM - Totalizer
					Permit Req.	<=	14.5 ANNL AVG			03 - MGD									99/99 - Continuous	TM - Totalizer
					Value NODI															
51041	**E. coli, colony forming units [CFU]**	1 - Effluent Gross	0	--	Sample								=	1.3	=	9.7	3Z - CFU/100mL		01/01 - Daily	GR - Grab
					Permit Req.								<=	126.0 DAILY AV	<=	399.0 DAILY MX	3Z - CFU/100mL		01/01 - Daily	GR - Grab
					Value NODI															
80082	**BOD, carbonaceous [5 day, 20 C]**	1 - Effluent Gross	0	--	Sample	=	92.0			26 - lb/d			=	1.23	=	4.13	19 - mg/L		01/01 - Daily	CP - Composite
					Permit Req.	<=	2419.0 DAILY AV			26 - lb/d			<=	20.0 DAILY AV	<=	45.0 DAILY MX	19 - mg/L		01/01 - Daily	CP - Composite
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

The Ammonia Nitrogen Daily Max limit (10.0 mg/L) was exceeded on 12/2/2024 (12.1 mg/L) and 12/3/2024 (10.4 mg/L). TCEQ Regional Office was notified about the permit exceedance by phone on December 4, 2024. Note: NCN report not required - exceedances are within the 40% deviation rule.

Attachments

No attachments.

Report Last Saved By

PUBLIC UTILITIES BOARD OF THE CITY OF BROWNSVILLE, TEXAS

User:	JOSLECHUGA
Name:	Jose Lechuga
E-Mail:	jlechuga@brownsville-pub.com
Date/Time:	2025-01-17 09:09 (Time Zone: -06:00)

Report Last Signed By

User:	BPUBRAMIRO
Name:	Ramiro Capistran
E-Mail:	rcapistran@brownsville-pub.com
Date/Time:	2025-01-17 10:36 (Time Zone: -06:00)

From: Lechuga, Jose
To: Rainee Trevino
Cc: Capistran, Ramiro; Bennett, Louis; Cano, Ruben
Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter - Email #2
Date: Friday, May 30, 2025 3:23:40 PM
Attachments: image002.png
image008.png
image001.png
image010.png
image011.png
North Plant Permit Renewal Full Size_053025.pdf
North Plant Permit Renewal Letter Size_053025.pdf
North Plant Permit Renewal Letter Size 2_053025.pdf
Importance: High

Good afternoon, Rainee!

First, thank you for taking the time to speak with us over the phone to clarify this matter. Attached are the revised maps. Please review them carefully and let us know if any additional modifications are needed. We hope this version meets the state requirements.

Thank you for your continued support.

Stay safe and have a wonderful weekend.

Best regards,

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist
Environmental Compliance
o: (956) 983-6518
c: (956) 466-0579
JLechuga@brownsville-pub.com

@BPUBOfficial

STAGE 2 DROUGHT. CONSERVE WATER

#EVERYDROPCOUNTS

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From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Friday, May 30, 2025 11:05 AM
To: Lechuga, Jose <JLechuga@brownsville-pub.com>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>; Capistran, Ramiro <RCapistran@brownsville-pub.com>; Martinez, Victor <VMartinez@brownsville-pub.com>; Adams, Judy <JAdams@brownsville-pub.com>; Gomez, Alberto <AGomez@brownsville-pub.com>
Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter - Email #2

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Good morning, Jose,

Thank you for the response. Everything looks good. The only thing I noticed is the map does not show the applicant's property boundary labeled. Can you correct that and just send over the revised map?

Regards,
Rainee Trevino

From: Lechuga, Jose <JLechuga@brownsville-pub.com>
Sent: Wednesday, May 28, 2025 11:01 AM
To: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>; Capistran, Ramiro <RCapistran@brownsville-pub.com>; Martinez, Victor <VMartinez@brownsville-pub.com>; Adams, Judy <JAdams@brownsville-pub.com>; Gomez, Alberto <AGomez@brownsville-pub.com>
Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter - Email #2
Importance: High

Dear Rainee,
Attached are the Technical Report and its corresponding attachments.
Thank you for your support throughout our renewal process, it is truly appreciated.
Stay safe and have a wonderful day.

Best regards,

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist
Environmental Compliance
o: (956) 983-6518
c: (956) 466-0579

JLechuga@brownsville-pub.com

@BPUBOfficial



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From: Lechuga, Jose
Sent: Wednesday, May 28, 2025 10:55 AM
To: 'Rainee Trevino' <Rainee.Trevino@tceq.texas.gov>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>; Capistran, Ramiro <RCapistran@brownsville-pub.com>; Martinez, Victor <VMartinez@brownsville-pub.com>; Adams, Judy <JAdams@brownsville-pub.com>; Gomez, Alberto <AGomez@brownsville-pub.com>
Subject: RE: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter
Importance: High

Dear Rainee Trevino,

In response to the Notice of Deficiency (NOD) letter received on May 19, 2025, the Public Utilities Board of the City of Brownsville, Texas hereby submits a revised permit renewal application package for the TPDES Permit No. WQ0010397005 – Robindale Wastewater Treatment Plant. The original documentation, along with additional forms and attachments, will be mailed to your office on May 29, 2025.

The revisions include:

1. **TCEQ form no. 10053**: Updated to the most recent version from October 2024.

2. **USGS Topographic Maps**: Now include the Robindale property boundary label.

3. **Plain Language Summary**: The CN in both summaries has been corrected. Also, the form has been updated to the most recent version from November 2024.

4. **NORI notice**: While mostly accurate, the discharge route may require a minor update to align with the language in the permit application:

- The discharge route is from the plant site to the Cameron County Drainage Ditch no. 1 (instead of "to a Cameron County Drainage Ditch"), thence to San Martin Lake, thence to the Brownsville Ship Channel in segment No. 2494 of the Bay and Estuaries.

5. **NORI Spanish version**: Attached as required in the NOD letter item 5.

Additionally, upon reviewing all other forms, we noticed that a newer version of the Technical Report was issued. In this updated version, several parameters listed in Table 4.0(1) – Toxic Analysis (Page 48) were not included in our original sampling schedule. We have taken immediate action to address this matter, with sampling scheduled to begin today. The results will be provided as soon as they become available.

Please do not hesitate to reach out should any additional information is required.

Stay safe and have a wonderful day.

PS. Due to the size of the files, I will submit the Technical Report and its attachments in a subsequent email.

Best regards,

Jose E. Lechuga, REM
Lead Environmental Compliance Specialist
Environmental Compliance
o: (956) 983-6518
c: (956) 466-0579
JLechuga@brownsville-pub.com

@BPUBOfficial

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difusión o copia de la información aquí contenida.

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Monday, May 19, 2025 4:35 PM
To: Lechuga, Jose <JLechuga@brownsville-pub.com>
Cc: Bennett, Louis <LBennett@brownsville-pub.com>
Subject: Application to Renew Permit No. WQ0010397005-Notice of Deficiency Letter

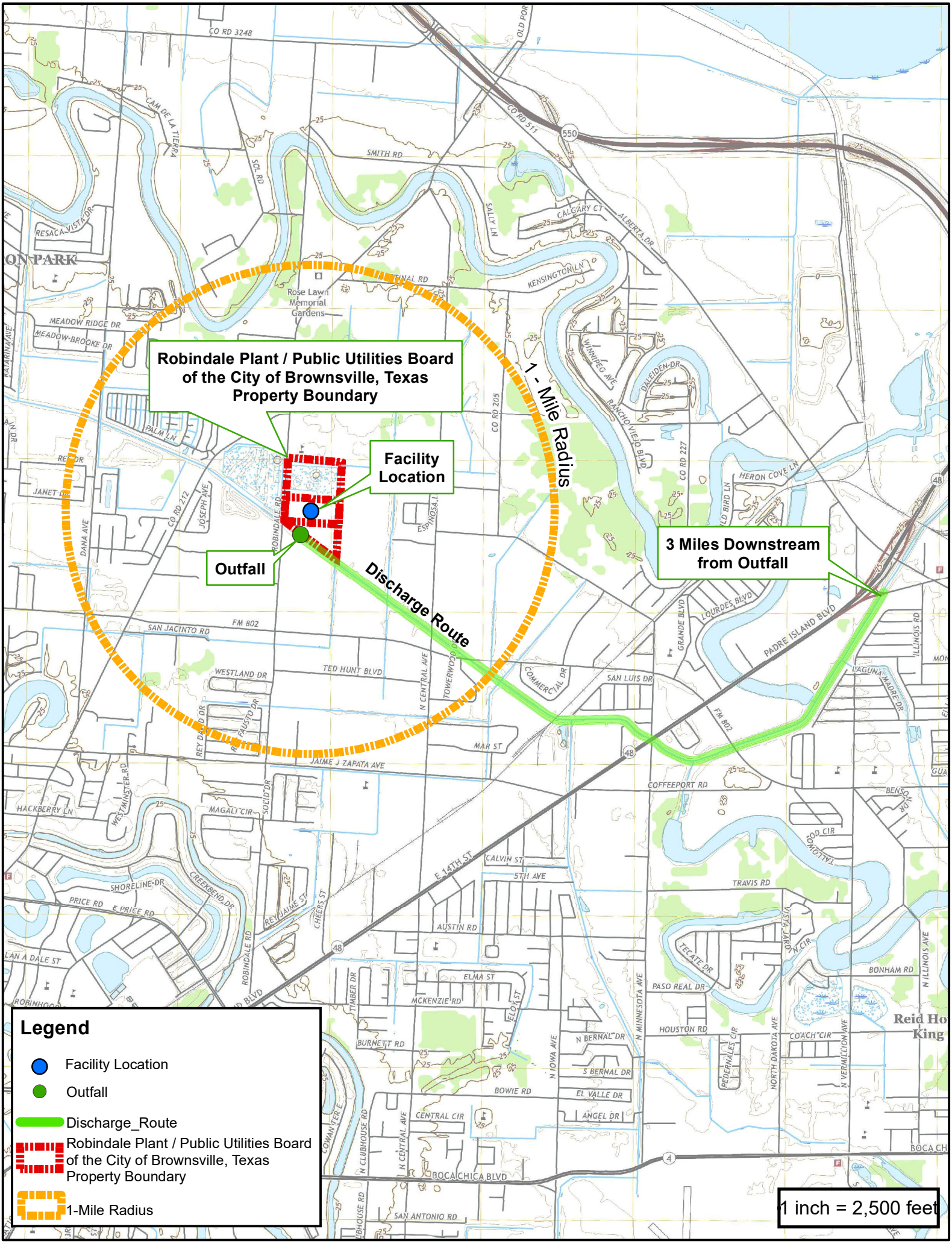
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Good afternoon,

The attached Notice of Deficiency letter sent on 5/19/2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by 6/2/2025.

Regards,

Rainee Trevino
Water Quality Division | ARP Team
Texas Commission on Environmental Quality
512-239-4324


Robindale Plant / Public Utilities Board of the City of Brownsville, Texas Property Boundary
Facility Location
Outfall
1 - Mile Radius
Discharge Route
3 Miles Downstream from Outfall
Legend
Facility Location
Outfall
Discharge_Route
Robindale Plant / Public Utilities Board of the City of Brownsville, Texas Property Boundary
1-Mile Radius
1 inch = 2,500 feet

TPDES PERMIT NO.
WQ0010397005
[For TCEQ office use only - EPA I.D. No. TX0071340]

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

This is a renewal that replaces TPDES Permit No. WQ0010397005 issued on January 5, 2023.

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

Public Utilities Board of the City of Brownsville, Texas

whose mailing address is

P.O. Box 3270
Brownsville, Texas 78523

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

located at 3208 Robindale Road, in Cameron County, Texas 78526

to Cameron County Drainage Ditch No. 1, thence to San Martin Lake, thence to the Brownsville Ship Channel in Segment No. 2494 of the Bays and Estuaries

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, **three years from the date of issuance**.

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

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

   The annual average flow of effluent shall not exceed 14.50 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 30,208 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	20 (2,419)	30	45	65	One/day	Composite
Total Suspended Solids	20 (2,419)	30	45	65	One/day	Composite
Ammonia Nitrogen	4 (484)	6	10	15	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.

6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored once per day by grab sample.

7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

iii. date and time of analysis;

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

v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

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

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

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

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

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

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

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

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

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

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

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

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

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

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

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

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

prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

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

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

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

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

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

secured.

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

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

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

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

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

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

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

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

e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

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

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

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

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

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

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

A. General Requirements

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

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

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

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 15) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 15) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

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

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

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

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

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

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

D. Notification Requirements

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

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

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

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

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

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

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

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

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

5. The following certification statement:

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

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

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

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

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

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 15) 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. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 15) 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 15) and the Enforcement Division (MC 224), by September 30 of each year.

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

E. 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.

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 15) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

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

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

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

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

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

B. Record Keeping Requirements

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

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

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

   d. the location of the receiving facility or facilities;

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

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

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

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

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 15) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

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

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OTHER REQUIREMENTS

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

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

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

3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

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

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

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Domestic Wastewater Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to five/week. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Domestic Wastewater Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **Public Utilities Board of the City of Brownsville** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **March 30, 1985**, and modified on **January 8, 1993**, **November 7, 2005**, **May 4, 2009**, **April 13, 2011** (Streamlining Rule nonsubstantial modification), and **January 12, 2023** (TBLLs – copper & mercury).

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

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

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

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

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

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

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

403, categorical pretreatment standards, local limits, and State and local law;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   a. An updated list of all regulated IUs as indicated in this section. For each listed IU,

the following information shall be included:

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

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

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

(3) Control mechanism status.

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

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

- Total number of inspections performed; and
- Total number of sampling events conducted.

(5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) - no violations during the pretreatment year reporting period;
- Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) - in accordance with requirements

described above in this section.

(6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.

b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.

c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.

d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.

e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.

f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.

g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (*See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.*)

h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.

i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. *[rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].*

5. The permittee shall provide adequate written notification to the Executive Director, care of

the Domestic Wastewater Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:

a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and

b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee:_____ Treatment Plant: _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS[1] LIST																
Industrial User Name	SIC or NAICS Code	CIU[2]	CONTROL MECHANISM				New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				REPORTS				NSCIU Certifications	Effluent Limits	Narrative Standards
										BMR	90-Day	Semi-Annual	Self-Monitoring			

1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.

4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g*. the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based

local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TCEQ-20218a TPDES Pretreatment Program Annual Report Form *Revised* July 2007

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____ Permittee: _____ Treatment Plant: _____

INDUSTRIAL USER INVENTORY MODIFICATIONS					
FACILITY NAME, ADDRESS AND CONTACT PERSON	ADD, CHANGE, DELETE (Including categorical reclassification to NSCIU or MTCIU)	IF DELETION: Reason For Deletion	IF ADDITION OR SIGNIFICANT CHANGE:		
			PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE [9] (In gpd) R = Regulated U = Unregulated T = Total

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____Permittee:_____Treatment Plant: _____

Overall SNC ___% SNC [10] based on: Effluent Violations_____% Reporting Violations_____% Narrative Standard Violations___%

Noncompliant Industrial Users - Enforcement Actions Taken															
Industrial User Name	Nature of Violation [11]				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		

10 # %
__ __ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)
__ __ Reporting Requirements [WENDB-PSNC]
__ __ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee:_____Treatment Plant: _____

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
METALS, CYANIDE AND PHENOLS											
Antimony, Total											
Arsenic, Total											
Beryllium, Total											
Cadmium, Total											
Chromium, Total											
Chromium (Hex)											
Chromium (Tri)[5]											
Copper, Total											
Lead, Total											
Mercury, Total											
Nickel, Total											
Selenium, Total											
Silver, Total											
Thallium, Total											
Zinc, Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Cyanide, Available [6]											
Cyanide, Total											
Phenols, Total											
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile											
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene											
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
2-Nitrophenol											
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS											
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											
Hexachloro-cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											
Naphthalene											
Nitrobenzene											
N-Nitrosodimethylamine											
N-Nitrosodi-n-Propylamine											
N-Nitrosodiphenylamine											
Phenanthrene											
Pyrene											
1,2,4-Trichlorobenzene											
PESTICIDES											
Aldrin											
Alpha-hexachlorocyclohexane (BHC)											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											
4,4-DDT											
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											
Hexachlorophene											
4,4-Isopropylidenediphenol (bisphenol A) [9]											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) [9]											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion											
Pentachlorobenzene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Pyridine											
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene											
2,4,5-TP (Silvex)											
Tributyltin [9]											
2,4,5-Trichlorophenol											
TTHM (Total Trihalomethanes)											

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).

2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

   The % of the MAHL is to be calculated using the following formulas:

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/L of all influent samples collected during the pretreatment year.
Q_{WWTP} =	Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
$L_{\%}$ =	% of the MAHL
MAHL =	Calculated MAHL in lb/day
8.34 =	Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.

4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010), as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.

5. Report result by subtracting Hexavalent Chromium from Total Chromium.

6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.

7. Hydrolyzes in water. Will not require permittee to analyze at this time.

8. EPA procedure not approved. Will not require permittee to analyze at this time.

9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

TCEQ-20218d TPDES Pretreatment Program Annual Report Form Revised February 2020

BIOMONITORING REQUIREMENTS

48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

   a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival of the test organisms.

   b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "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 static renewal 48-hour definitive 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 in each dilution. This test shall be conducted once per quarter.

      2) Acute static renewal 48-hour definitive 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 in each dilution. This test shall be conducted once per quarter.

      The permittee must perform and submit a valid test for each test species during the required reporting period for that species. A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution. A repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, a chemical-specific 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 fathead minnow tests

demonstrates significant lethal effects, 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 fathead minnow tests demonstrates significant lethal effects, 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 lethal effects, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

f. Should a mysid shrimp test fail (i.e., demonstrate significant toxicity), the testing frequency for that test species increases to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the testing frequency of once per quarter resumes. If three or more failures are demonstrated during the permit term, a WET limit will be included in the subsequently reissued permit. Any two lethal failures in a three-month period will require the permittee to initiate a TRE (see Part 5. Toxicity Reduction Evaluation).

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

1) a control mean survival of 90% or greater; and

2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

b. Statistical Interpretation

1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test results are interpreted and reported correctly. The document entitled “Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)” (EPA 821-B-00-004) provides guidance on determining the validity of test results.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in

the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference the survival of the test organism in a specified effluent dilution when compared to the survival of the test organism in the control.

5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 2 will be used when making a determination of test acceptability.

7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected 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 preexisting instream toxicity (i.e. fails to fulfill the test acceptance criteria 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; 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 two composite samples from Outfall 001. The second composite sample 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 the 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 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, 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 TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter TOM3D, report the NOEC for survival.

3) For the water flea, Parameter TXM3D, report the LOEC for survival.

4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.

6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a toxicity test demonstrates significant lethality. Significant lethality was defined in Part 2.b.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. 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 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.

c. 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.

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, 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 describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity

Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects 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/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 2)

WATER FLEA SURVIVAL

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO:_____

No. 2 FROM: _____ TO:_____

Test initiated: _____am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

*Coefficient of Variation = Standard Deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

TABLE 1 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

Dates and Times Composites Collected

No. 1 FROM: Date Time _____ TO: Date Time _____

No. 2 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

* Coefficient of Variation = standard deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% 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. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. As the dilution series specified in the 48-Hour Acute 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 Part 1.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.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, 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 "1."

2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50%, and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical

analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, 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. Ttesting for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive

Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

   The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, 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 implementing corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010397005, EPA I.D. No. TX0071340, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: Public Utilities Board of the City of Brownsville, Texas
P.O. Box 3270,

Brownsville, Texas 78523

Prepared By: Sumitra Pokharel
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-4722

Date: August 15, 2025

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **three years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 14.50 million gallons per day (MGD). The existing wastewater treatment facility serves the north sector of the City of Brownsville, Texas.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 3208 Robindale Road, in Cameron County, Texas 78526.

Outfall Location:

Outfall Number	Latitude	Longitude
001	25.954014 N	97.453935 W

The treated effluent is discharged to Cameron County Drainage Ditch (CCDD) No. 1, thence to San Martin Lake, thence to the Brownsville Ship Channel in Segment No. 2494 of the Bays and Estuaries. The unclassified receiving water use is minimal aquatic life

use for CCDD No. 1. The designated uses for Segment No. 2494 are non-primary contact recreation, exceptional aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Robindale Wastewater Treatment Facility is an activated sludge process plant operated in the Modified Ludzack Ettinger (MLE) mode. Treatment units include a bar screen, two screening Compactors, a grit removal basin, three grit removal systems, sixteen bioreactor basins, three final clarifiers, four aerobic sludge digesters, a filter press and two Ultraviolet Light (UV) disinfection system. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-authorized land application site, Municipal Solid Waste Landfill-City of Brownsville, MSW Permit No. 1273A, in Cameron County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility receives industrial wastewater.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period April 2023 through April 2025. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli (E. coli)* in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	8.31
$CBOD_5$, mg/l	1.5
TSS, mg/l	3
NH_3-N, mg/l	0.46
E. coli, CFU or MPN per 100 ml	2

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 14.50 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 30,208 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	20	2,419	30	45
TSS	20	2,419	30	45
NH_3-N	4	484	6	10
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per day by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize an UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	One/day
TSS	One/day
NH_3-N	One/day
DO	One/day
E. coli	Daily

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-authorized land application site, Municipal Solid Waste Landfill-City of Brownsville, MSW Permit No. 1273A, in Cameron County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. Environmental Protection Agency (EPA) on **March 30, 1985**, and modified on **January 8, 1993**, **November 7, 2005**, **May 4, 2009**, **April 13, 2011** (Streamlining Rule nonsubstantial modification), and **January 12, 2023** (TBLLs – copper & mercury). This permit has appropriate pretreatment language for a facility of this size and complexity. The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of **April** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

The permittee shall submit to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division, within **sixty (60) days** of the issued date of this permit, either:

1. a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; **or**

2. a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev. 10/14/05]*, and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms), will be submitted within **twelve (12) months** of the issued date of this permit. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the

current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes 48-hour acute freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Acute static renewal 48-hour definitive toxicity tests using the water flea (*Daphnia pulex* or *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) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements have been added to the draft permit.

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 draft permit includes all updates based on the 30 TAC § 312 rule change effective April 23, 2020.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Cameron County Drainage Ditch No. 1, thence to San Martin Lake, thence to the Brownsville Ship Channel in Segment No. 2494 of the Bays and Estuaries. The unclassified receiving water use is minimal aquatic life use for Cameron County Drainage Ditch No. 1. The designated uses for Segment No. 2494 are non-primary contact recreation, exceptional aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

A watershed of high priority has been identified in Segment No. 2494 in Cameron County. The piping plover, Charadrius melodus Ord, a threatened aquatic dependent species, is found in the watershed of Segment No. 2494; however, the facility is not a petroleum facility and its discharge is not expected to have an effect on the piping plover. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 2494 is not currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA Section 303(d) list). However, San Martin Lakes (2494C) is currently listed for bacteria in water (Recreation Use) from the confluence with the Brownsville Ship Channel upstream to the confluence with drainage ditches flowing into San Martin Lakes (Assessment Unit [AU]_2494C_01). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of San Martins Lake.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 1,840 mg/l total dissolved solids (TDS), 344 mg/l sulfate, and 639 mg/l chloride present in the effluent. The segment criteria for Segment No. 2202 were used and are 2,720 mg/l for TDS, 759 mg/l for sulfate, and 825 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The existing effluent limits have been reviewed for consistency with the State of Texas WQMP. The existing limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office (GLO) and has determined that the action is consistent with the applicable CMP goals and policies.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards" 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. Chronic freshwater criteria do not apply to discharges to intermittent streams where there is no perennial waterbody within three miles downstream from the point of discharge. The following critical effluent percentage is being used:

Acute Effluent %: 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 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The LTA is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards." The segment 2202 values were used and are 681 mg/l for hardness (as calcium carbonate), 825 mg/l

chlorides, 7.4 standard units for pH, and 68 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

The discharge point is located at a distance greater than three miles upstream of perennial waters. Human health screening is not applicable because of the distance between the discharge point and perennial waters that support fisheries.

(b) PERMIT ACTION

None.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 2494, 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 48-hour acute freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with no demonstrations of significant toxicity (i.e., zero failures) by the water flea and three failures by the fathead minnow.

REASONABLE POTENTIAL (RP) DETERMINATION

A RP determination was performed in accordance with 40 CFR §122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

Upon another failure (i.e., another demonstration of significant toxicity), the testing frequency for the water flea will increase to monthly until three consecutive tests pass (i.e., do not demonstrate significant toxicity), at which time the permittee may return to the quarterly testing frequency. If three or more failures are demonstrated during the three-year permit term, RP will have been demonstrated and a WET limit will be included in the subsequently reissued permit.

With zero failures by the fathead minnow, a determination of no RP was made. A WET limit isn't required and this test species may be eligible for the testing frequency reduction after one year of testing.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

Because of the failure by the water flea, a three-year permit will be issued in accordance with the methodology referenced above.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee performed twenty-two 48-hour acute tests, with one demonstrations of significant toxicity (i.e., one failure) by the water flea and no failures by the fathead minnow.

(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 Sumitra Pokharel at (512) 239-4722.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010397005 issued on January 5, 2023.

B. APPLICATION

Application received on May 12, 2025, and additional information received on August 15, 2025.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2024 CWA § 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the EPA on November 13, 2024.

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 B: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 1 - Discharge to an Intermittent Stream

Applicant Name:	**Public Utilities Board of the City of Brownsville, Texas**
Permit Number, Outfall:	**10397005, outfall 001**
Segment Number:	**2202 for 2494**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	4000	mg/L	2010 TSWQS, Appendix A
Cl CC - segment criterion - chloride	1200	mg/L	2010 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	1000	mg/L	2010 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	**1840**	mg/L	Permit application
Cl CE - average effluent concentration - chloride	**639**	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	**344**	mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS}, as follows:

C_{TDS} = (TDS CC / 500 mg/L) * 2,500 mg/L

Where:	C_{TDS} = TDS concentration used to determine Csv screening value TDS CC = TDS criterion at the first downstream segment 500 mg/L = the median TDS concentration in Texas streams 2,500 mg/L = the minimum TDS screening value

C_{TDS} = 20000 mg/L

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		**Then TDS Csv**
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L but ≤ 6,000 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	**If C_{TDS} is**	**Default Csv =**
Dry except for short-term flow in	< 4,000 mg/L	4,000 mg/L

immediate response to rainfall.	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and	< 4,000 mg/L	4,000 mg/L
wastewater, considered water in the state.	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv is established, the next step is to compare the effluent TDS concentration, TDS CE, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening			**Data Source**
TDS CE - average effluent TDS concentration	1840	mg/L	Permit application
TDS Csv - TDS screening value	**4000**	mg/L	Determined above

No control measures needed if:	1840	≤	4000
Consider control measures if:	1840	>	4000

No control measures needed for TDS

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl Csv, as follows:

Cl Csv = (TDS Csv /TDS CC) * Cl CC

Where:	Cl Csv = chloride screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	Cl CC - chloride criterion at the first downstream segment

Cl Csv = **1200** mg/L

Once the Cl Csv is established, the next step is to compare the effluent chloride concentration,

Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening			Data Source
Cl CE - average effluent chloride concentration	639	mg/L	Permit application
Cl Csv - chloride screening value	1200	mg/L	Determined above

No control measures needed if:	639	≤	1200
Consider control measures if:	639	>	1200

No control measures needed for chloride

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO4 Csv, as follows:

SO4 Csv = (TDS Csv /TDS CC) * SO4 CC

Where:	SO4 Csv = sulfate screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	SO4 CC - sulfate criterion at the first downstream segment

SO4 Csv = **1000** mg/L

Once the SO4 Csv is established, the next step is to compare the effluent sulfate concentration, SO4 CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			Data Source
SO4 CE - average effluent sulfate concentration	344	mg/L	Permit application
SO4 Csv - sulfate screening value	1000	mg/L	Determined above

No control measures needed if:	344	≤	1000
Consider control measures if:	344	>	1000

No control measures needed for sulfate

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

Sulfate

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #1 - INTERMITTENT STREAM

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
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	Public Utilities Board of the City of Brownsville, Texas
TPDES Permit No:	WQ0010397005
Outfall No:	001
Prepared By:	Sumitra Pokharel
Date:	August 14, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Cameron County Ditch No. 1.
Segment No:	2202 for 2494
TSS (mg/L):	68
pH (Standard Units):	7.4
Hardness (mg/L as $CaCO_3$):	681
Chloride (mg/L):	825
Effluent Flow for Aquatic Life (MGD):	14.50
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Acute Aquatic Life:	100

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	21992.19	0.401		1.00	Assumed
Cadmium	6.60	-1.13	33827.11	0.303		1.00	Assumed
Chromium (total)	6.52	-0.93	65428.46	0.184		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	65428.46	0.184		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	46125.75	0.242		1.00	Assumed
Lead	6.45	-0.80	96381.32	0.132		1.00	Assumed

Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	44204.85	0.250		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	31082.49	0.321		1.00	Assumed
Zinc	6.10	-0.70	65651.37	0.183		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*WLAa (µg/L)*	*LTAa (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	3.00	1.72	2.52	5.34
Aluminum	991	991	568	834	1765
Arsenic	340	848	486	714	1511
Cadmium	55.20586	182	104	153	324
Carbaryl	2.0	2.00	1.15	1.68	3.56
Chlordane	2.4	2.40	1.38	2.02	4.27
Chlorpyrifos	0.083	0.0830	0.0476	0.0699	0.147
Chromium (trivalent)	2741.84	14941	8561	12584	26624
Chromium (hexavalent)	15.7	15.7	9.00	13.2	27.9
Copper	86.56351	358	205	301	638
Cyanide (free)	45.8	45.8	26.2	38.5	81.6
4,4'-DDT	1.1	1.10	0.630	0.926	1.96
Demeton	N/A	N/A	N/A	N/A	N/A
Diazinon	0.17	0.170	0.0974	0.143	0.302
Dicofol [Kelthane]	59.3	59.3	34.0	49.9	105
Dieldrin	0.24	0.240	0.138	0.202	0.427
Diuron	210	210	120	176	374
Endosulfan I (*alpha*)	0.22	0.220	0.126	0.185	0.392
Endosulfan II (*beta*)	0.22	0.220	0.126	0.185	0.392
Endosulfan sulfate	0.22	0.220	0.126	0.185	0.392
Endrin	0.086	0.0860	0.0493	0.0724	0.153
Guthion [Azinphos Methyl]	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.52	0.520	0.298	0.438	0.926
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	1.13	0.645	0.948	2.00
Lead	480.1151	3627	2078	3054	6462
Malathion	N/A	N/A	N/A	N/A	N/A
Mercury	2.4	2.40	1.38	2.02	4.27
Methoxychlor	N/A	N/A	N/A	N/A	N/A
Mirex	N/A	N/A	N/A	N/A	N/A
Nickel	2373.051	9506	5447	8007	16940
Nonylphenol	28	28.0	16.0	23.5	49.8
Parathion (ethyl)	0.065	0.0650	0.0372	0.0547	0.115
Pentachlorophenol	13.03972	13.0	7.47	10.9	23.2
Phenanthrene	30	30.0	17.2	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	2.00	1.15	1.68	3.56
Selenium	20	20.0	11.5	16.8	35.6
Silver	0.8	27.7	15.9	23.3	49.4
Toxaphene	0.78	0.780	0.447	0.657	1.38
Tributyltin [TBT]	0.13	0.130	0.0745	0.109	0.231
2,4,5 Trichlorophenol	136	136	77.9	114	242
Zinc	595.3615	3253	1864	2740	5797

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	500	607
Cadmium	107	130
Carbaryl	1.17	1.43
Chlordane	1.41	1.71
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	8809	10696
Chromium (hexavalent)	9.25	11.2
Copper	211	256
Cyanide (free)	27.0	32.7
4,4'-DDT	0.648	0.787
Demeton	N/A	N/A
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.141	0.171
Diuron	123	150
Endosulfan I (*alpha*)	0.129	0.157
Endosulfan II (*beta*)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0507	0.0615
Guthion [Azinphos Methyl]	N/A	N/A
Heptachlor	0.306	0.372
Hexachlorocyclohexane (*gamma*) [Lindane]	0.663	0.806
Lead	2138	2596
Malathion	N/A	N/A
Mercury	1.41	1.71
Methoxychlor	N/A	N/A
Mirex	N/A	N/A
Nickel	5605	6806
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	7.68	9.33
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	1.17	1.43
Selenium	11.7	14.3
Silver	16.3	19.8
Toxaphene	0.459	0.558
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	1918	2329