



Technical Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
 - English
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 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
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 3. Second notice (NAPD-Notice of Preliminary Decision)
 - English
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 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

**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 City of McAllen (CN600343743) operates the City Of Mcallen South Wastewater Treatment Plant (RN 101720977), an activated sludge process plant operated in biological nutrient removal mode. The facility is located at 4100 Idela Avenue, in McAllen, Hidalgo County, Texas 78503. This application is for a renewal to discharge at an annual average flow of 10,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 and the treatment units include a bar screen, a grit chamber, aeration basins, secondary clarifiers, membrane thickener, sludge digesters, a belt filter press, and UV (Ultra violet) light disinfection.

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

AGUAS RESIDUALES DOMÉSTICA /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.

La Ciudad de McAllen (CN 60034743) opera la planta de tratamiento de aguas residuales de Sur de la Ciudad de McAllen RN 101720977, una planta de proceso de lodos activados operada en modo de eliminación biológica de nutrientes.. La instalación está ubicada en 4100 Idela Avenue, en McAllen, Condado de Hidlago, Texas 78503. Esta solicitud es para una renovación para descargar un flujo anual promedio de 10,000,000 galones por día de aguas residuales domésticas tratadas a través del drenaje 001..

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonácea a cinco días (CBOD5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Doméstico 1.0, Sección 7. Aguas residuales tratadas . está tratado por el proceso de lodos activados, que promueve el crecimiento de microorganismos que descomponen la materia orgánica a través de la aireación. Este método consiste en varios tanques de aireación donde se introduce aire para mezclar las aguas residuales con lodo. Después de esto, la mezcla fluye hacia un clarificador secundario, permitiendo que la biomasa se asiente. Tras el tratamiento biológico, el efluente se desinfecta utilizando luz ultravioleta (UV) antes de ser finalmente descargado..

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010633003

APPLICATION. City of McAllen, 4100 Idela Avenue, McAllen, Texas 78503, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010633003 (EPA I.D. No. TX0047449) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 10,000,000 gallons per day. The domestic wastewater treatment facility is located at 4100 Idela Avenue, in the city of McAllen, in Hidalgo County, Texas 78503. The discharge route is from the plant site to an unnamed drainage ditch, thence to Main Floodway portion of Segment 2202, thence to Arroyo Colorado Above Tidal. TCEQ received this application on January 29, 2025. The permit application will be available for viewing and copying at McAllen City Hall, Utility Administration Office, Second Floor, 1300 West Houston Avenue, McAllen, in Hidalgo 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=-98.275277,26.172222&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

El aviso de idioma alternativo en español está disponible en

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of McAllen at the address stated above or by calling Mr. Marco Vega, P.E., General Manager, at 956-681-1630.

Issuance Date: February 19, 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. WQ0010633003

SOLICITUD. La Ciudad de McAllen, 4100 Idela Avenue McAllen, Texas 78503 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010633003 (EPA I.D. No. TX 0047449) 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 anual promedio de 10,000,000 galones por día. La planta está ubicada 4100 Idela Avenue en La Ciudad de McAllen en el Condado de Hidalgo, Texas. La ruta de descarga es del sitio de la planta a una zanja de drenaje sin nombre, de allí a la porción de la inundación principal del segmento 2202, desde allí hasta Arroyo Colorado sobre la marea. La TCEQ recibió esta solicitud el 29 de enero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en El Ayuntamiento de McAllen, 1300 Houston Avenue, Oficina de Administración de Servicios Públicos de McAllen, segundo piso, McAllen, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.275277,26.172222&level=18>

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

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

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

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

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

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

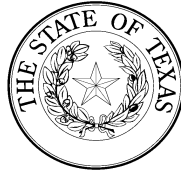
LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que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

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

También se puede obtener información adicional del La Ciudad de McAllen a la dirección indicada arriba o llamando a Marco A. Vega, P.E. Gerente General, McAllen Public Utility al (956) 681-1630.

Fecha de emission: 19 de febrero de 2025

Texas Commission on Environmental Quality



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

RENEWAL

PERMIT NO. WQ0010633003

APPLICATION AND PRELIMINARY DECISION. City of McAllen, 4100 Idela Avenue, McAllen, Texas 78503, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010633003, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 10,000,000 gallons per day. TCEQ received this application on January 29, 2025.

The facility is located at 4100 Idela Avenue, in the City of McAllen, Hidalgo County, Texas 78503. The treated effluent is discharged to an unnamed drainage ditch, thence to Main Floodway portion of Arroyo Colorado Above Tidal, thence to Arroyo Colorado Above Tidal in Segment No. 2202 of the Nueces-Rio Grande Coastal Basin. The unclassified receiving water use is minimal aquatic life use for unnamed drainage ditch. The designated uses for Segment No. 2202 are primary contact recreation and intermediate 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=-98.275277,26.172222&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 McAllen City Hall, Utility Administration Office, Second Floor, 1300 West Houston Avenue, McAllen, in Hidalgo County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/tpdes-applications>.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of McAllen at the address stated above or by calling Mr. Marco Vega, P.E., General Manager, at 956-681-1630.

Issuance Date: October 16, 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 0010633003

SOLICITUD Y DECISIÓN PRELIMINAR. La Ciudad de McAllen, 4100 Idela Avenue, McAllen, Texas 78503 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo anual promedio de 10,000,000 galones por día. La TCEQ recibió esta solicitud el 29 de Enero 2025.

La planta está ubicada en 4100 Idela Avenue en La Ciudad de McAllen en el Condado de Hidalgo, Texas. El efluente tratado es descargado al zanja de drenaje sin nombre, de allí a la porción de la inundación principal Arroyo Colorado sobre la marea, de allí al Arroyo Colorado sobre la marea en Segmento No. 2202 a la Cuenca Nueces-Rio Grande. Los usos no clasificados de las aguas receptoras son limitados a usos de la vida acuática para zanja de drenaje sin nombre. Los usos designados para el Segmento No. 2202 son intermedios de vida acuática y recreación con contacto primario.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en El Ayuntamiento de McAllen, 1300 Houston Avenue, Oficina de Administración de Servicios Públicos de McAllen segundo Piso, McAllen, 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=-98.275277,26.172222&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 todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue 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 la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de la Ciudad de McAllen a la dirección indicada arriba o llamando a Marco A. Vega, P.E. Gerente General, McAllen Public Utility al (956) 681-1630.

Fecha de emisión 16 de octubre de 2025



McALLEN

PUBLIC UTILITY

CHARLES E. AMOS, Chairman
ERNEST R. WILLIAMS, Vice-Chairman
ALBERT CARDENAS, Trustee
RICARDO R. GODINEZ, Trustee
JAVIER VILLALOBOS, Ex-Officio Member

MARCO A. VEGA, P.E., General Manager

January 27, 2025

Texas Commission on Environmental Quality
Water Quality Division
Application Review and Processing Team (MC148)
P. O. Box 13087
Austin, Texas 78711-3087

**Re: Texas TPDES Domestic Wastewater Permit Renewal Application
City of McAllen, McAllen Public Utility
TPDES Permit No. WQ0010633003, (TX0047449) (RN101720977; CN600343743)**

To Whom It May Concern:

Please accept the following TPDES Domestic Wastewater Permit Renewal Application for the City of McAllen, McAllen Public Utility South Wastewater Treatment Plant. Enclosed for your review and approval is the Permit Renewal Application, supporting attachments along with a copy of the check as requested in the permit application.

Should you have any questions or comments regarding this TPDES Domestic Wastewater Permit Renewal Application, please feel free to contact Mr. Javier Hinojosa, Asst. Director of Wastewater Systems directly at 956-681-1750 or by fax 956-681-1754.

Sincerely,

David Garza, Director of Wastewater Systems
McAllen Public Utility

Enclosure(s)

Xc: Marco A. Vega, P.E., MPU General Manager
McAllen Public Utility

Javier Hinojosa, Assistant Director of Wastewater Systems
McAllen Public Utility

Edgar Tijerina, South WWTP Manager
McAllen Public Utility



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of McAllen, South Wastewater Treatment Plant

PERMIT NUMBER (If new, leave blank): WQ00 10633003

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: 0000653181
Check/Money Order Amount: \$2,015.00
Name Printed on Check: Texas Commission on Environmental Quality
EPAY Voucher Number: N/A
Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

- ☒ Publicly-Owned Domestic Wastewater
☐ Privately-Owned Domestic Wastewater
☐ Conventional Wastewater Treatment

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

- ☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 10633003
EPA I.D. (TPDES only): TX 0047449
Expiration Date: 09/03/2025

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

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

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

City of McAllen

(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: 600343743

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: Vega, Marco A.

Title: General Manager

Credential: P.E.

B. Co-applcant 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-applcant applying for this permit?

N/A

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

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

CN: N/A

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

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

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

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. File Attached

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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net
Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Garza, David
Title: Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: dgarza@mcallen.net
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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

B. Prefix: Mr. Last Name, First Name: Garza, David
Title: Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: dgarza@mcallen.net

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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

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: Hinojosa, Oscar J.
Title: Assistant Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: ohinojosa@mcallen.net

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Hinojosa, Oscar J.
Title: Assistant Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: ohinojosa@mcallen.net

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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

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: McAllen City Hall
Location within the building: 2nd Floor Utility Administration Office
Physical Address of Building: 1300 Houston Avenue
City: McAllen County: Hidalgo
Contact (Last Name, First Name): Marco A. Vega, P.E.
Phone No.: (956) 681-1630 Ext.: N/A

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: File Attached

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN 101720977

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):

South Wastewater Treatment Plant, City of McAllen

C. Owner of treatment facility: City of McAllen

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

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

Prefix: City of McAllen Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: City of McAllen, McAllen Public Utility

Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503

Phone No.: (956) 681-1750 E-mail Address: N/A

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): McAllen

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

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: N/A

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

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:

N/A

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

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

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

N/A

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010633003

Applicant: City of McAllen, McAllen Public Utility

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): Marco A. Vega, P.E.

Signatory title: General Manager

Signature: _____

(Use blue ink)

Date: _____

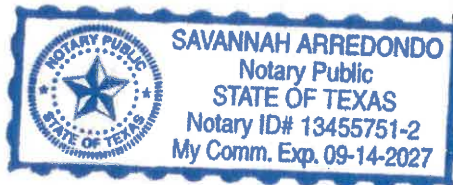
Subscribed and Sworn to before me by the said Marco Vega
on this 27th day of January, 20 25.
My commission expires on the 14 day of September, 20 27.

Savannah Arredondo

Notary Public

Hidalgo

County, Texas



[SEAL]

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

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

- ☐ USB Drive ☐ Four sets of labels

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

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

- ☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

- ☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: File Attached

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____ Renewal ____ Major Amendment ____ Minor Amendment ____ New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

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

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

The following applies to all applications:

1. Permittee: City of McAllen, McAllen Public Utility

Permit No. WQ00 10633003EPA ID No. TX 0047449

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

Located at 4100 Idela Avenue, approximately 1.5 miles West of Spur Highway 115 and approximately 2.5 miles South West of the intersection of US Interstate 2 and FM2220 in the City of McAllen, Hidalgo Texas 78503.

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: David Garza

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

Title: Director of Wastewater System

Mailing Address: 4100 Idela Avenue

City, State, Zip Code: McAllen, Texas 78503

Phone No.: (956) 681-1750 Ext.: N/A Fax No.: (956) 681-1754

E-mail Address: dgarza@mcallen.net

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

N/A

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

To an unnamed drainage ditch; thence to the Main Floodway portion of Segment No.2202; thence to the Arroyo Colorado above tidal in segment No. 2202 of the Nueces-Rio Grande Coastal Basin

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

Existing Wastewater Treatment Facility

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

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

N/A

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

N/A



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 600343743		RN 101720977

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		11/20/2024	
☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership					
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of McAllen					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID	10. DUNS Number (if applicable)
N/A		32066221282		(9 digits) 74-6001650	N/A
11. Type of Customer:		☐ Corporation		☐ Individual	
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		Partnership: ☐ General ☐ Limited	
12. Number of Employees				13. Independently Owned and Operated?	
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher				☐ Yes ☒ No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:					
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant					
15. Mailing Address:					
4100 Idela Avenue					
City: McAllen State: TX ZIP: 78503 ZIP + 4:					
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
N/A				N/A	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

City of McAllen, South Wastewater Treatment Plant

23. Street Address of the Regulated Entity:

4100 Idela Avenue

(No PO Boxes)

City	McAllen	State	TX	ZIP	78503	ZIP + 4	
------	---------	-------	----	-----	-------	---------	--

24. County Hidalgo

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

25. Description to Physical Location:

N/A

26. Nearest City State Nearest ZIP Code

McAllen	TX	78503
---------	----	-------

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

27. Latitude (N) in Decimal: **28. Longitude (W) in Decimal:**

Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
26	10	20	98	16	31

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

4952	4212	22132	221320
------	------	-------	--------

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

Wastewater Treatment

34. Mailing

4100 Idela Avenue

Address:

City	McAllen	State	TX	ZIP	78503	ZIP + 4	
------	---------	-------	----	-----	-------	---------	--

35. E-Mail Address:

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(956) 681-1750

N/A

(956) 681-1754

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.

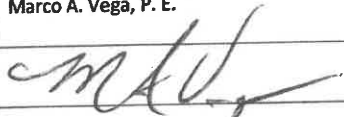
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
	TXR05R070			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ10633003			

SECTION IV: Preparer Information

40. Name:	Edgar Tijerina	41. Title:	South Plant Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(956) 681-1750	N/A	(956) 681-1754	edgartijerina@mcallen.net

SECTION V: Authorized Signature

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

Company:	City of McAllen	Job Title:	General Manager
Name (In Print):	Marco A. Vega, P. E.	Phone:	(956) 681- 1630
Signature:		Date:	1/24/2025



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 City of McAllen (CN600343743) operates the City Of Mcallen South Wastewater Treatment Plant (RN 101720977), an activated sludge process plant operated in biological nutrient removal mode. The facility is located at 4100 Idela Avenue, in McAllen, Hidalgo County, Texas 78503. This application is for a renewal to discharge at an annual average flow of gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 and the treatment units include a bar screen, a grit chamber, aeration basins, secondary clarifiers, membrane thickener, sludge digesters, a belt filter press, and UV (Ultra violet) light disinfection.

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

AGUAS RESIDUALES DOMÉSTICA /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.

La Ciudad de McAllen (CN 60034743) opera la planta de tratamiento de aguas residuales de Sur de la Ciudad de McAllen RN 101720977, una planta de proceso de lodos activados operada en modo de eliminación biológica de nutrientes.. La instalación está ubicada en 4100 Idela Avenue, en McAllen, Condado de Hidalgo, Texas 78503. Esta solicitud es para una renovación para descargar un flujo anual promedio de galones por día de aguas residuales domésticas tratadas a través del drenaje 001..

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonácea a cinco días (CBOD5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Doméstico 1.0, Sección 7. Aguas residuales tratadas . está tratado por el proceso de lodos activados, que promueve el crecimiento de microorganismos que descomponen la materia orgánica a través de la aireación. Este método consiste en varios tanques de aireación donde se introduce aire para mezclar las aguas residuales con lodo. Después de esto, la mezcla fluye hacia un clarificador secundario, permitiendo que la biomasa se asiente. Tras el tratamiento biológico, el efluente se desinfecta utilizando luz ultravioleta (UV) antes de ser finalmente descargado..

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 (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 (BOD₅), 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.



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): 10 MGD

2-Hr Peak Flow (MGD): 31 MGD

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: Existing Phase 11/11/2017

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 South Wastewater Treatment Plant is an activated sludge plant operated in the Biological Nutrient Removal mode. Headworks is dual train with two rake screens and one standby channel. Two grit removal headcells, pumps and dewatering classifiers. Four aeration basins. Three secondary clarifiers. Three channel Ultraviolet Disinfection system. Two sludge holding tanks and six aerobic digesters followed by two dewatering belt filter presses.

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)
Headworks	1	Influent Screens-2 Capacity 15.5 MGD each, spacing ¼ inch.
Grit Separation	2	D= 12ft
Odor Control	1	D=12, Height 24ft
Aeration Basins	4	L=86ft, W=150ft, SWD=20ft
Secondary Clarifiers	3	D=105ft, SWD 14ft
UV Disinfection System	1	2+1 Channels, capacity 15.5 MGD each
Aerobic Digesters	8	L=65ft, W=65ft, SWD 20ft
Sludge Drying Beds	14	(9) L=100ft, W=87ft, (3) L=200ft, W=87 ft

C. Process Flow Diagram

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

Attachment: Flow Diagram Attached

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

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

- Latitude: 26 10 20
- Longitude: 98 16 31

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

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

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

- The boundaries of the treatment facility;

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

Attachment: Site Drawing Attached

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

City of McAllen South Wastewater Treatment Plant service area, generally the area of the city south from Nolana Avenue.

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
South WWTP Collection System	City Of Mcallen	Publicly Owned	73,706
		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.**

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☐ Yes ☒ No

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

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

N/A

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.

No changes to buffer zone.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment

works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

N/A

3. *Grit disposal*

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

N/A

4. *Grease and decanted liquid disposal*

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

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

N/A

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. MSGP coverage

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

☒ Yes ☐ No

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

TXR05 R05R003 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. Conditional exclusion

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

☐ Yes ☒ No

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

N/A

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

N/A

5. Zero stormwater discharge

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

☐ Yes ☒ No

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

N/A

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

6. Request for coverage in individual permit

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

☐ Yes ☐ No

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

N/A

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

If yes, attach sewage sludge solids management plan. See Example 5 of 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 BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☒ Yes ☐ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

The South Wastewater Treatment Plant began accepting septic waste in 1986. The design influent BOD₅ concentration in the collection system is 120 mg/L. At this time the South WWTP is not receiving septic waste, therefore no monthly estimate is available. This information has not changed since last permit action.

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

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

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

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or

other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

N/A

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

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. **Wastewater treatment facilities** complete Table 1.0(2). **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.

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	1.79		1	C	10/26-27/2024 08:00-06:00
Total Suspended Solids, mg/l	2.20		1	C	10/31-11/1/2024 08:00-06:00
Ammonia Nitrogen, mg/l	0.17		1	C	10/31-11/1/2024 08:00-06:00
Nitrate Nitrogen, mg/l	10.9		1	G	1/13/2025 12:45
Total Kjeldahl Nitrogen, mg/l	1.13		1	G	1/13/2025 12:45
Sulfate, mg/l	241		1	G	1/13/2025 12:45
Chloride, mg/l	197		1	G	1/13/2025 12:45
Total Phosphorus, mg/l	4.76		1	G	1/13/2025 12:45
pH, standard units	7.02		1	G	10/31/2024

					(09:55)
Dissolved Oxygen*, mg/l	6.85		1	G	10/31/2024 (09:55)
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
<i>E.coli</i> (CFU/100ml) freshwater	2.0		1	G	11/3/2024 10:12
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	1235		1	G	10/31/2024 (08:15)
Electrical Conductivity, μ mohs/cm, †	1782		1	G	10/31/2024 (08:15)
Oil & Grease, mg/l	<4.30		1	G	1/13/2025 12:45
Alkalinity (CaCO ₃)*, mg/l	138		1	G	1/13/2025 12:45

*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					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Edgar Tijerina

Facility Operator's License Classification and Level: Wastewater Operator "A"

Facility Operator's License Number: WW0046171

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 $\geq$ 1 MGD
- ☒ Serves $\geq$ 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: Click to enter text.

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
Agricultural Land Application	On-Site Owner or Operator	Bulk	994.52	Class B: PSRP Aerobic Digestion	Option 4: SOUR <=1.5 mg O ₂ /hr/g total solids at

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
					20C (<2% solids)
Disposal in Landfill	On-Site Owner or Operator	Bulk	994.52 (Estimated)	Class B: PSRP Aerobic Digestion	Option 4: SOUR ≤1.5 mg O ₂ /hr/g total solids at 20C (<2% solids)
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): N/A

D. Disposal site

Disposal site name: City of Edinburg Landfill/Reavis Farms/ Carrales Ranch/ Garza Trust/La Gloria Landfill

TCEQ permit or registration number: 48038/
WQ0004463000/WQ0005442000/WQ0005286000/2348(TXR0000084595)

County where disposal site is located: Hidalgo/Hidalgo/Hidalgo/Hidalgo/Hidalgo

E. Transportation method

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

Name of the hauler: Grande Garbage CO/ Ygriega Environmental Services/Denali Water Solutions

Hauler registration number: 22653/25063/24979

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:
Attachment: [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:
Attachment: [Click to enter text.](#)
- Federal Emergency Management Map:
Attachment: [Click to enter text.](#)
- Site map:
Attachment: [Click to enter text.](#)

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands

- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: [Click to enter text.](#)

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

[Click to enter text.](#)

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [Click to enter text.](#)

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [Click to enter text.](#)
- Copy of the closure plan
Attachment: [Click to enter text.](#)
- Copy of deed recordation for the site
Attachment: [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [Click to enter text.](#)

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

Section 12. Authorizations/Compliance/Enforcement (Instructions 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:

City of McAllen reclaimed water authorization TCEQ Permit Number 10633-003 and WWPR R10633-003.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

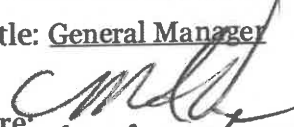
The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

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

Printed Name: Marco A. Vega, P. E.

Title: General Manager

Signature: 

Date: 1/20/2025

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 to Section 2. If **yes**, provide the following:

Owner of the drinking water supply: N/A

Distance and direction to the intake: N/A

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

Attachment: N/A

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: N/A

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☒ No

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

N/A

C. Sea grasses

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

☐ Yes ☒ No

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

N/A

Section 3. Classified Segments (Instructions Page 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: Unnamed Drainage Ditch

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

- ☒ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: N/A

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: N/A

C. Downstream perennial confluences

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

Mission Floodway Channel

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.

Man-made dam.

E. Normal dry weather characteristics

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

Normally flowing with water clarity discolored.

Date and time of observation: 1/3/2025 10:00AM

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

☒ Urban runoff

☐ Upstream discharges

☒ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: N/A

B. Waterbody uses

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

- | | |
|--|---|
| ☐ Livestock watering | ☐ Contact recreation |
| ☐ Irrigation withdrawal | ☐ Non-contact recreation |
| ☐ Fishing | ☐ Navigation |
| ☐ Domestic water supply | ☐ Industrial water supply |
| ☐ Park activities | ☒ Other(s), specify: <u>Removal of flood waters</u> |
- for Drainage, for at least three miles downstream.

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: 1/3/2025 Time of study: 10:00AM

Stream name: Unnamed Drainage Ditch

Location: 4100 Idela Avenue, McAllen, Hidalgo, Texas

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: 2

Number of stream bends that are moderately defined: 0

Number of stream bends that are poorly defined: 0

Number of riffles: 1

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.

Observed stream use is for drainage. Evidence indicates minor flow fluctuations and no evidence of channel obstruction/modification.

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.
Riffle	Outfall	37	1, 1.5, 2.5, 3
Run	528 feet Transect 2	28	1.5, 2, 3, 1.5
Run	1056 feet Transect 3	26	2, 2, 1.5, 1
Run	1584 feet Transect 4	30	2, 2, 1.5, 1.5
Run	2112 feet Transect 5	23	1.5, 2, 2, 1
Run	2640 feet Transect 6	22	1.3, 2, 2, 2, 1
N/A			
N/A			
N/A			
N/A			

Section 3. Summarize Measurements (Instructions Page 66)

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

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

Length of stream evaluated, in feet: 2640

Number of lateral transects made: 6

Average stream width, in feet: 27.67

Average stream depth, in feet: 1.69

Average stream velocity, in feet/second: 0.23

Instantaneous stream flow, in cubic feet/second: N/A

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

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

Maximum pool depth, in feet: N/A

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☒

Date and time sample(s) collected: 02/14-15/2024 08:00 to 06:00 Hrs

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<2.0		1	50
Aldrin	<0.0097		1	0.01
Aluminum	21.9		1	2.5
Anthracene	<0.964		1	10
Antimony	3.0		1	5
Arsenic	2.19		1	0.5
Barium	69.1		1	3
Benzene	<1.0		1	10
Benzidine	<19.3		1	50
Benzo(a)anthracene	<0.964		1	5
Benzo(a)pyrene	<0.964		1	5
Bis(2-chloroethyl)ether	<0.964		1	10
Bis(2-ethylhexyl)phthalate	<7.23		1	10
Bromodichloromethane	<1.0		1	10
Bromoform	<1.0		1	10
Cadmium	<1.0		1	1
Carbon Tetrachloride	<1.0		1	2
Carbaryl	<2.39		1	5
Chlordane*	<0.194		1	0.2
Chlorobenzene	<1.0		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	<1.0		1	10
Chloroform	<1.0		1	10
Chlorpyrifos	<0.0479		1	0.05
Chromium (Total)	1.16		1	3
Chromium (Tri) (*1)	1.84		1	N/A
Chromium (Hex)	<3.0		1	3
Copper	1.0		1	2
Chrysene	<0.964		1	5
p-Chloro-m-Cresol	<2.31		1	10
4,6-Dinitro-o-Cresol	7.71		1	50
p-Cresol	<5.96		1	10
Cyanide (*2)	5		1	10
4,4'- DDD	<0.0097		1	0.1
4,4'- DDE	<0.0097		1	0.1
4,4'- DDT	<0.0097		1	0.02
2,4-D	<0.479		1	0.7
Demeton (O and S)	<0.0479		1	0.20
Diazinon	<0.0479		1	0.5/0.1
1,2-Dibromoethane	<1.0		1	10
m-Dichlorobenzene	<1.0		1	10
o-Dichlorobenzene	<1.0		1	10
p-Dichlorobenzene	<1.0		1	10
3,3'-Dichlorobenzidine	<4.82		1	5
1,2-Dichloroethane	<1.0		1	10
1,1-Dichloroethylene	<1.0		1	10
Dichloromethane	<1.02		1	20
1,2-Dichloropropane	<1.0		1	10
1,3-Dichloropropene	<1.0		1	10
Dicofol	<0.0479		1	1
Dieldrin	<0.0097		1	0.02
2,4-Dimethylphenol	<2.31		1	10
Di-n-Butyl Phthalate	<7.23		1	10
Diuron	<0.0431		1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.0097		1	0.01
Endosulfan II (beta)	<0.0097		1	0.02
Endosulfan Sulfate	<0.0097		1	0.1
Endrin	<0.0097		1	0.02
Ethylbenzene	<1.0		1	10
Fluoride	1,000		1	500
Guthion	<0.0479		1	0.1
Heptachlor	<0.0097		1	0.01
Heptachlor Epoxide	<0.0097		1	0.01
Hexachlorobenzene	<0.964		1	5
Hexachlorobutadiene	<0.964		1	10
Hexachlorocyclohexane (alpha)	<0.0097		1	0.05
Hexachlorocyclohexane (beta)	<0.0097		1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0097		1	0.05
Hexachlorocyclopentadiene	<8.68		1	10
Hexachloroethane	<0.964		1	20
Hexachlorophene	<1.26		1	10
Lead	0.5		1	0.5
Malathion	<0.0479		1	0.1
Mercury	<5.00		1	0.005
Methoxychlor	<0.00958		1	2
Methyl Ethyl Ketone	<1.0		1	50
Mirex	<0.00958		1	0.02
Nickel	8.07		1	2
Nitrate-Nitrogen	9,420		1	100
Nitrobenzene	<0.964		1	10
N-Nitrosodiethylamine	<0.962		1	20
N-Nitroso-di-n-Butylamine	<0.962		1	20
Nonylphenol	<31.8		1	333
Parathion (ethyl)	<0.0479		1	0.1
Pentachlorobenzene	<0.962		1	20
Pentachlorophenol	<0.964		1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<0.964		1	10
Polychlorinated Biphenyls (PCB's) (*3)	1.358		1	0.2
Pyridine	<5.19		1	20
Selenium	5.04		1	5
Silver	0.276		1	0.5
1,2,4,5-Tetrachlorobenzene	<0.962		1	20
1,1,2,2-Tetrachloroethane	<1.0		1	10
Tetrachloroethylene	<1.0		1	10
Thallium	0.106		1	0.5
Toluene	<1.0		1	10
Toxaphene	<0.194		1	0.3
2,4,5-TP (Silvex)	<0.287		1	0.3
Tributyltin (see instructions for explanation)	N/A		N/A	0.01
1,1,1-Trichloroethane	<1.0		1	10
1,1,2-Trichloroethane	<1.0		1	10
Trichloroethylene	<1.0		1	10
2,4,5-Trichlorophenol	<0.962		1	50
TTHM (Total Trihalomethanes)	<0.001		1	10
Vinyl Chloride	<1.0		1	10
Zinc	31.0		1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☒

Date and time sample(s) collected: 02/14-15/24 08:00 to 06:00 Hrs

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	3.0		1	5
Arsenic	2.19		1	0.5
Beryllium	0.5		1	0.5
Cadmium	<1.0		1	1
Chromium (Total)	1.16		1	3
Chromium (Hex)	<3.0		1	3
Chromium (Tri) (*1)	1.84		1	N/A
Copper	1.0		1	2
Lead	0.5		1	0.5
Mercury	<5.0		1	0.005
Nickel	8.07		1	2
Selenium	5.04		1	5
Silver	0.276		1	0.5
Thallium	0.106		1	0.5
Zinc	31.0		1	5
Cyanide (*2)	5		1	10
Phenols, Total	3.2		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	<4.0		1	50
Acrylonitrile	<2.0		1	50
Benzene	<1.0		1	10
Bromoform	<1.0		1	10
Carbon Tetrachloride	<1.0		1	2
Chlorobenzene	<1.0		1	10
Chlorodibromomethane	<1.0		1	10
Chloroethane	<1.12		1	50
2-Chloroethylvinyl Ether	<1.0		1	10
Chloroform	<1.0		1	10
Dichlorobromomethane [Bromodichloromethane]	<1.0		1	10
1,1-Dichloroethane	<1.0		1	10
1,2-Dichloroethane	<1.0		1	10
1,1-Dichloroethylene	<1.0		1	10
1,2-Dichloropropane	<1.0		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.0		1	10
1,2-Trans-Dichloroethylene	<1.0		1	10
Ethylbenzene	<1.0		1	10
Methyl Bromide	<1.0		1	50
Methyl Chloride	<1.0		1	50
Methylene Chloride	<1.02		1	20
1,1,2,2-Tetrachloroethane	<1.0		1	10
Tetrachloroethylene	<1.0		1	10
Toluene	<1.0		1	10
1,1,1-Trichloroethane	<1.0		1	10
1,1,2-Trichloroethane	<1.0		1	10
Trichloroethylene	<1.0		1	10
Vinyl Chloride	<1.0		1	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<0.964		1	10
2,4-Dichlorophenol	<0.964		1	10
2,4-Dimethylphenol	<2.31		1	10
4,6-Dinitro-o-Cresol	7.71		1	50
2,4-Dinitrophenol	<8.68		1	50
2-Nitrophenol	<0.964		1	20
4-Nitrophenol	<0.964		1	50
P-Chloro-m-Cresol	<2.31		1	10
Pentalchlorophenol	<0.964		1	5
Phenol	<1.45		1	10
2,4,6-Trichlorophenol	<0.964		1	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<0.964		1	10
Acenaphthylene	<0.964		1	10
Anthracene	<0.964		1	10
Benzidine	<19.3		1	50
Benzo(a)Anthracene	<0.964		1	5
Benzo(a)Pyrene	<0.964		1	5
3,4-Benzofluoranthene	<0.964		1	10
Benzo(ghi)Perylene	<0.964		1	20
Benzo(k)Fluoranthene	<0.964		1	5
Bis(2-Chloroethoxy)Methane	<0.964		1	10
Bis(2-Chloroethyl)Ether	<0.964		1	10
Bis(2-Chloroisopropyl)Ether	<0.94		1	10
Bis(2-Ethylhexyl)Phthalate	<7.23		1	10
4-Bromophenyl Phenyl Ether	<0.964		1	10
Butyl benzyl Phthalate	<7.23		1	10
2-Chloronaphthalene	<0.964		1	10
4-Chlorophenyl phenyl ether	<0.964		1	10
Chrysene	<0.964		1	5
Dibenzo(a,h)Anthracene	<0.964		1	5
1,2-(o)Dichlorobenzene	<1.0		1	10
1,3-(m)Dichlorobenzene	<1.0		1	10
1,4-(p)Dichlorobenzene	<1.0		1	10
3,3-Dichlorobenzidine	<4.82		1	5
Diethyl Phthalate	<5.50		1	10
Dimethyl Phthalate	<4.63		1	10
Di-n-Butyl Phthalate	<7.23		1	10
2,4-Dinitrotoluene	<3.38		1	10
2,6-Dinitrotoluene	<0.964		1	10
Di-n-Octyl Phthalate	<0.964		1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.964		1	20
Fluoranthene	<0.964		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.964		1	10
Hexachlorobenzene	<0.964		1	5
Hexachlorobutadiene	<0.964		1	10
Hexachlorocyclo-pentadiene	<8.68		1	10
Hexachloroethane	<0.964		1	20
Indeno(1,2,3-cd)pyrene	<0.964		1	5
Isophorone	<0.964		1	10
Naphthalene	<0.964		1	10
Nitrobenzene	<0.964		1	10
N-Nitrosodimethylamine	<6.75		1	50
N-Nitrosodi-n-Propylamine	<0.964		1	20
N-Nitrosodiphenylamine	<0.964		1	20
Phenanthrene	<0.964		1	10
Pyrene	<0.964		1	10
1,2,4-Trichlorobenzene	<0.964		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	<0.0997		1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0097		1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0097		1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0097		1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0097		1	0.05
Chlordane	<0.194		1	0.2
4,4-DDT	<0.0097		1	0.02
4,4-DDE	<0.0097		1	0.1
4,4,-DDD	<0.0097		1	0.1
Dieldrin	<0.0097		1	0.02
Endosulfan I (alpha)	<0.0097		1	0.01
Endosulfan II (beta)	<0.0097		1	0.02
Endosulfan Sulfate	<0.0097		1	0.1
Endrin	<0.0097		1	0.02
Endrin Aldehyde	<0.0097		1	0.1
Heptachlor	<0.0097		1	0.01
Heptachlor Epoxide	<0.0097		1	0.01
PCB-1242	<0.194		1	0.2
PCB-1254	<0.194		1	0.2
PCB-1221	<0.194		1	0.2
PCB-1232	<0.194		1	0.2
PCB-1248	<0.194		1	0.2
PCB-1260	<0.194		1	0.2
PCB-1016	<0.196		1	0.2
Toxaphene	<0.194		1	0.3

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

Section 3. Dioxin/Furan Compounds

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

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

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

N/A

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

- ☐ Yes ☐ No

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

N/A

C. If any of the compounds in Subsection A or B are present, complete Table 4.0(2)F.
For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: [Click to enter text.](#)

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: 18

48-hour Acute: 09

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

N/A

Summary of Submitted Test Information
for Permit Application

If the required biomonitoring test information has been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table Is (as found in the permit), Part 2 need not be completed. Instead, a summary of the testing results for all valid tests performed over the past four and one-half years should be submitted instead. The summary should be in the format similar to the table below, include the test species, the dated the test was initiated, the NOEC for survival and sublethal effects (for a chronic test).

Permittee: McAllen, City of

- South Plant

Permit No.: WQ0010633003

Outfall No.: 001

Test No.	Test Date	Test Specie	NOEC Survival	NOEC Sublethal or LC50
72059	2/26/2019	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
72060	2/28/2019	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
72061	5/21/2019	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
72063	8/27/2019	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
72062	8/27/2019	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
72064	11/26/2019	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
75669	2/18/2020	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
75670	5/19/2020	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
75671	5/19/2020	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
75673	8/18/2020	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
75672	8/18/2020	<i>Ceriodaphnia dubia</i>	90	90
		<i>Pimephales promelas</i>	90	90
75674	11/17/2020	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
79198	2/23/2021	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
79197	2/23/2021	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
79199	5/18/2021	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76

Summary of Submitted Test Information
for Permit Application

If the required biomonitoring test information has been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table Is (as found in the permit), Part 2 need not be completed. Instead, a summary of the testing results for all valid tests performed over the past four and one-half years should be submitted instead. The summary should be in the format similar to the table below, include the test species, the dated the test was initiated, the NOEC for survival and sublethal effects (for a chronic test).

Permittee: McAllen, City of

- South Plant

Permit No.: WQ0010633003

Outfall No.: 001

Test No.	Test Date	Test Specie	NOEC Survival	NOEC Sublethal or LC50
79201	8/17/2021	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
79200	8/17/2021	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
79202	11/16/2021	<i>Ceriodaphnia dubia</i>	76	76**
		<i>Pimephales promelas</i>	76	76
82357	2/22/2022	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
82356	2/22/2022	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
82358	5/24/2022	<i>Ceriodaphnia dubia</i>	76	76**
		<i>Pimephales promelas</i>	76	76
82360	8/23/2022	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
82359	8/23/2022	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
82361	12/1/2022	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
85376	2/21/2023	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
85375	2/21/2023	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
85377	5/23/2023	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
85379	8/22/2023	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
85378	8/22/2023	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
85380	11/7/2023	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76

Summary of Submitted Test Information
for Permit Application

If the required biomonitoring test information has been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table Is (as found in the permit), Part 2 need not be completed. Instead, a summary of the testing results for all valid tests performed over the past four and one-half years should be submitted instead. The summary should be in the format similar to the table below, include the test species, the dated the test was initiated, the NOEC for survival and sublethal effects (for a chronic test).

Permittee: McAllen, City of - South Plant
Permit No.: WQ0010633003
Outfall No.: 001

Test No.	Test Date	Test Specie	NOEC Survival	NOEC Sublethal or LC50
90574	2/20/2024	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
90573	2/20/2024	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
90575	5/21/2024	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
90577	8/20/2024	<i>Daphnia pulex</i>	>100	
		<i>Pimephales promelas</i>	>100	
90576	8/20/2024	<i>Ceriodaphnia dubia</i>	76	76
		<i>Pimephales promelas</i>	76	76
90578	11/5/2024	<i>Ceriodaphnia dubia</i>	76	76**
		<i>Pimephales promelas</i>	76	76

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: 3

Average Daily Flows, in MGD: 0.07

Significant IUs - non-categorical:

Number of IUs: 6

Average Daily Flows, in MGD: 0.37

Other IUs:

Number of IUs: N/A

Average Daily Flows, in MGD: N/A

B. Treatment plant interference

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

☐ Yes ☒ No

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

N/A

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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.

N/A

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				
N/A				
N/A				
N/A				
N/A				
N/A				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

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

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

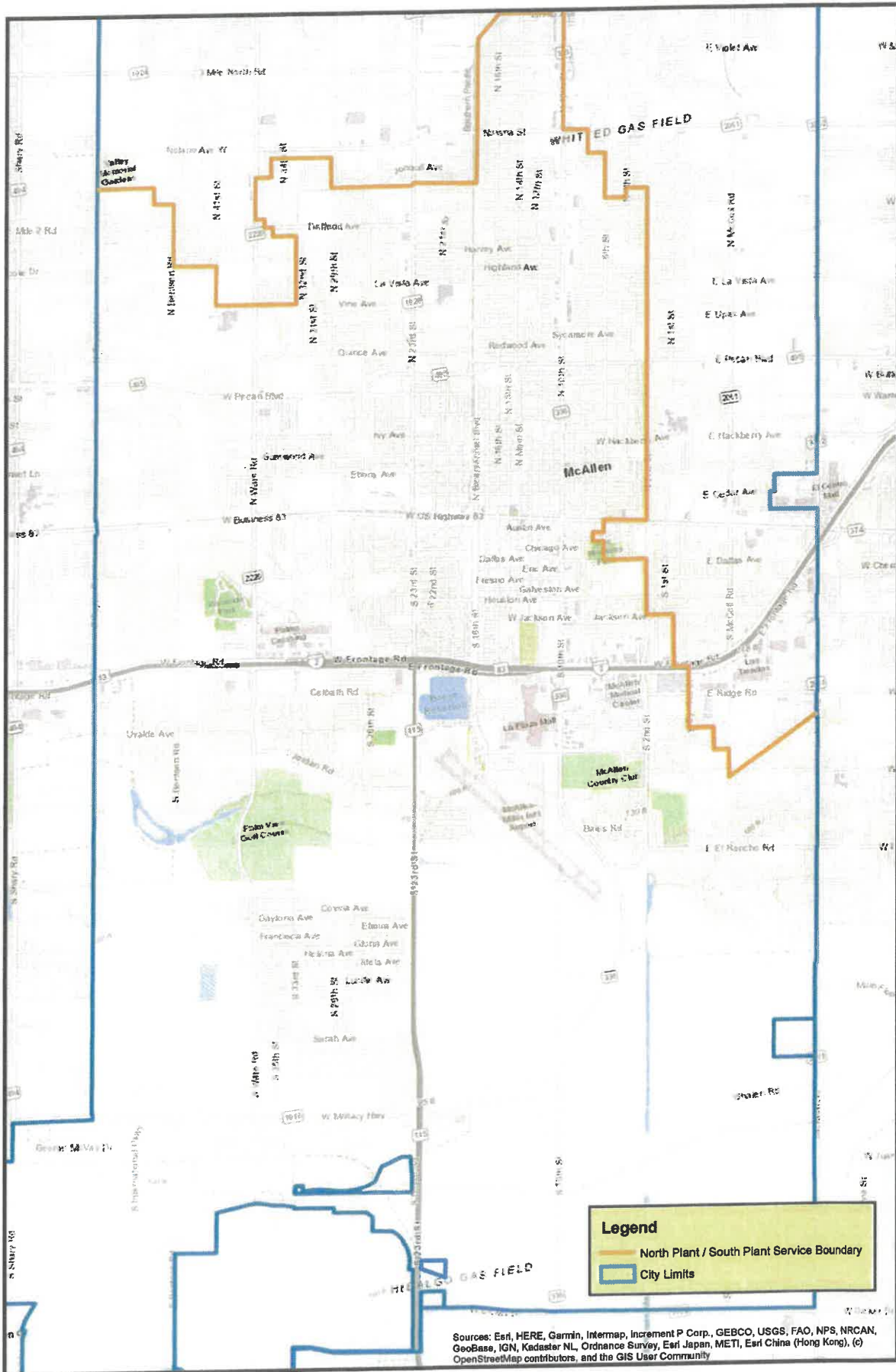
Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

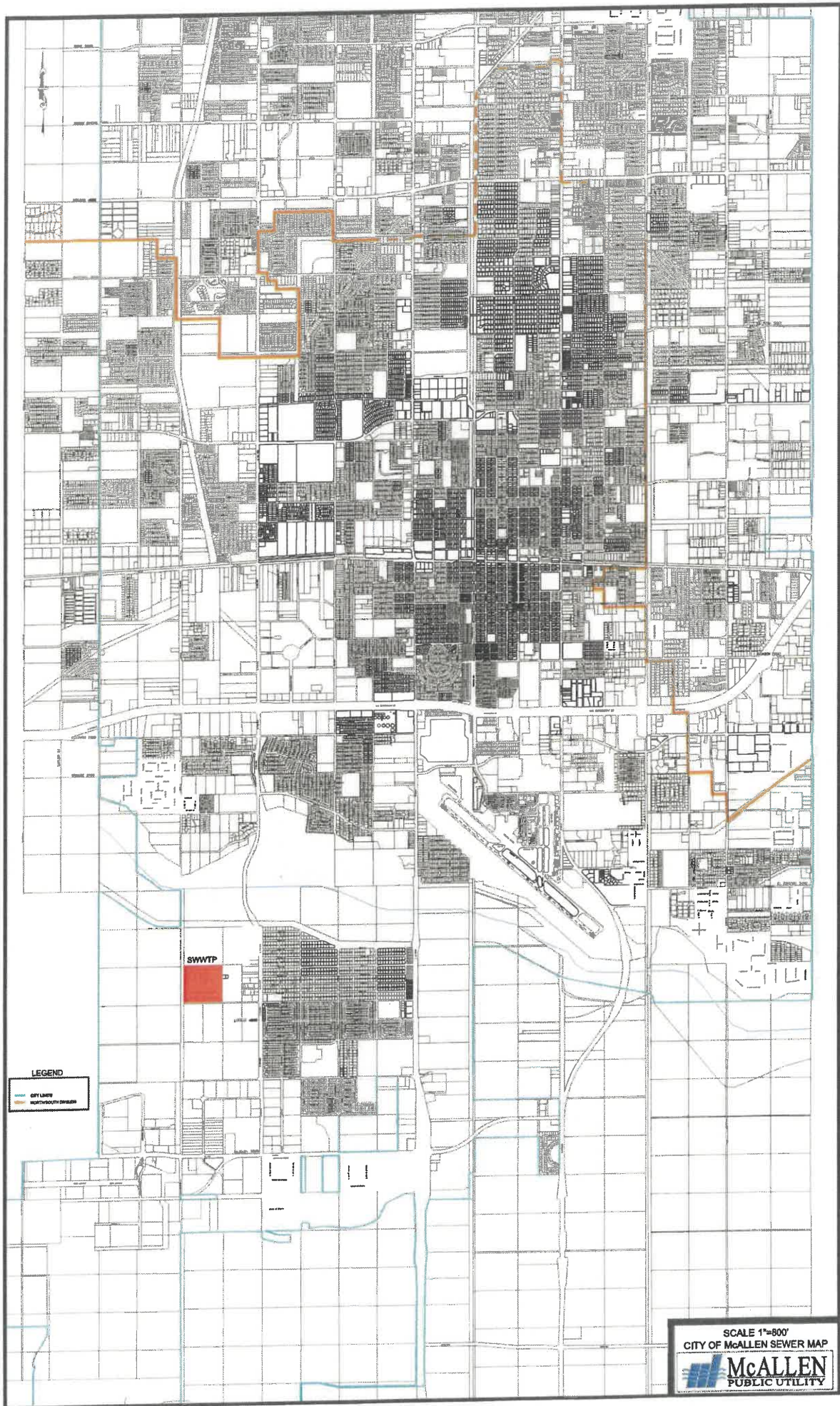
☐ Yes ☒ No

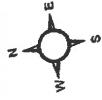
If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

N/A

SOUTH SEWER PLANT SERVICE AREA 2025







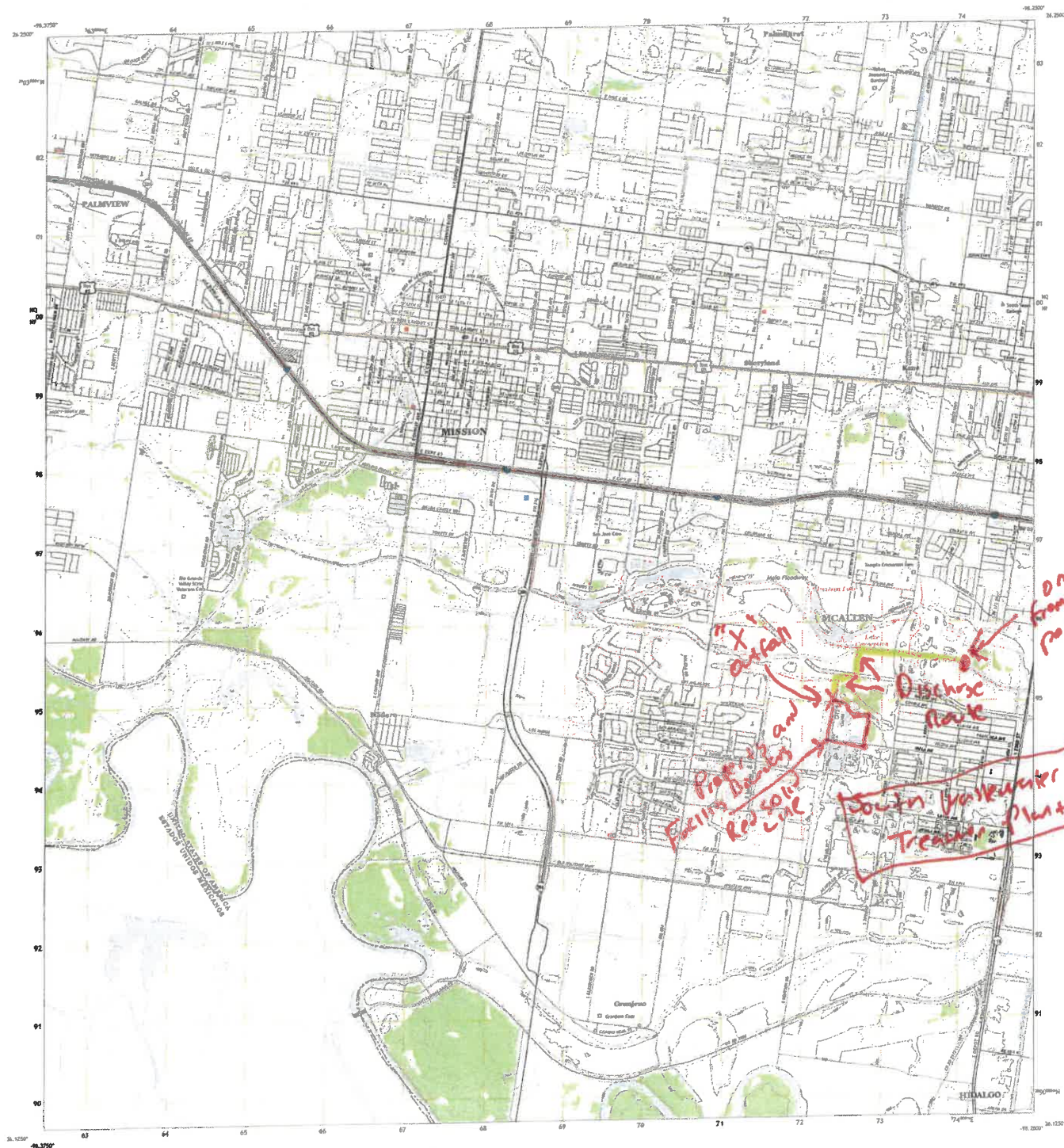
2025 TOPO MAP UPDATES

*UTILITIES SHOWN ARE FOR GENERAL INFORMATION ONLY AND MAY NOT BE 100% ACCURATE. UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO DESIGN OR CONSTRUCTION.



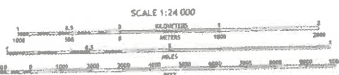
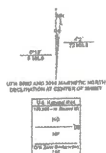


MISSION QUADRANGLE
TEXAS - HIDALGO COUNTY
7.5-MINUTE SERIES



one mile
from Duche
point

Dischouse

[illegible]

COAST-TO-COAST INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
International Geodetic Program U.S. Topo Product Standards

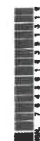


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	6	7

1 Obra
 2 Alano
 3 Edith
 4 Le Joy
 5 Phay
 6 Nidia
 7 La M

ROAD CLASSIFICATION

Expressway		Local Connector	
Secondary Hwy		Local Road	
Bypass		Driv	
Interstate Route		US Route	
		State Route	

MISSION, TX, TAM
2022



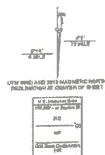
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



MISSION QUADRANGLE
TEXAS - HIDALGO COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
from American Series of 1910 (1910-1912).
Original Series of 1910 (1910-1912).
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The map is not a legal document. It is for informational purposes only.



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4	5	6
7	8	9

ROAD CLASSIFICATION
Expressway
Arterial Road
Local Road
US Route
State Road

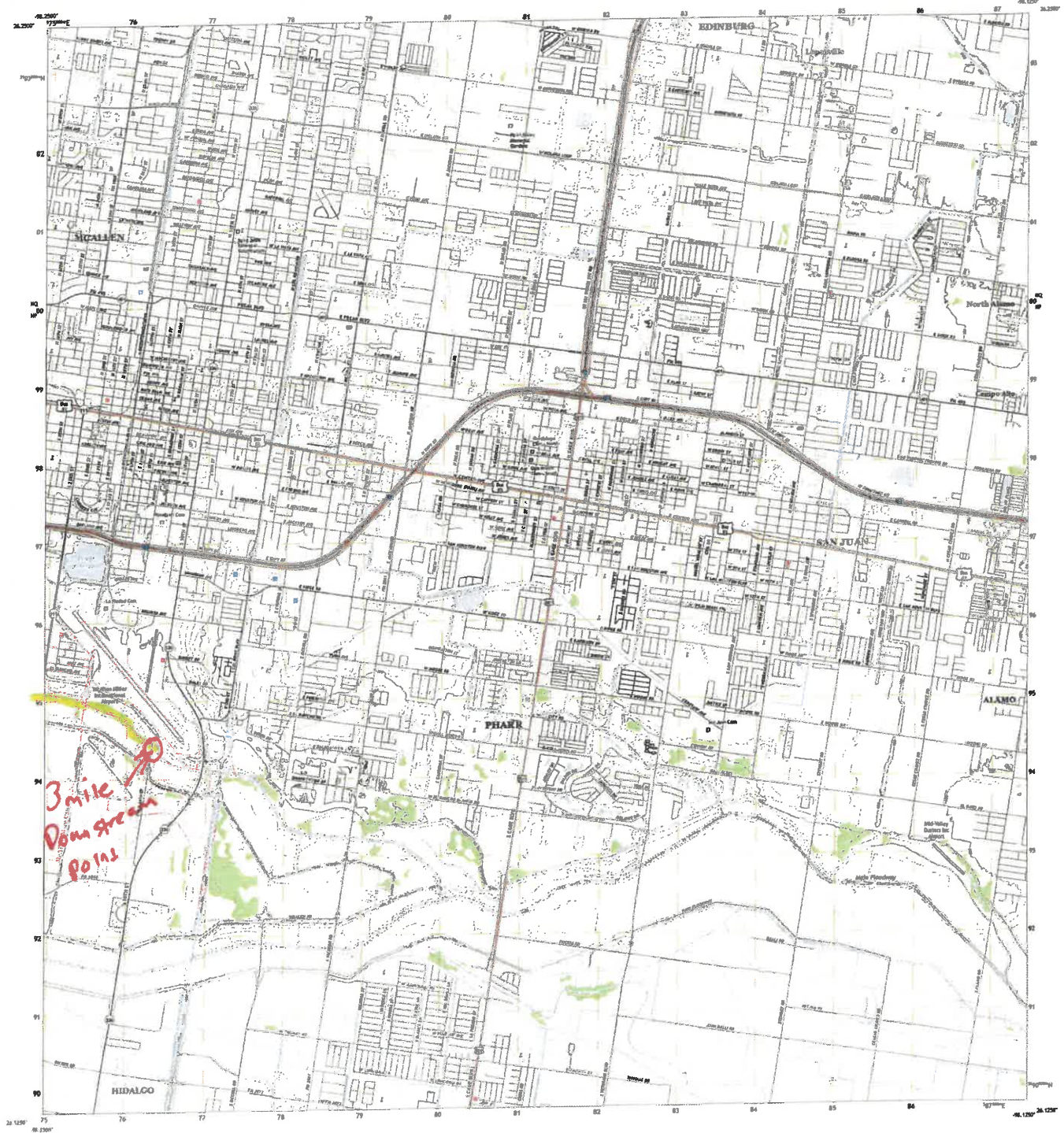
MISSION, TX, TAM
2022



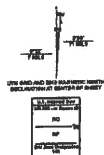
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



PHARR QUADRANGLE
TEXAS - HIDALGO COUNTY
7.5-MINUTE SERIES



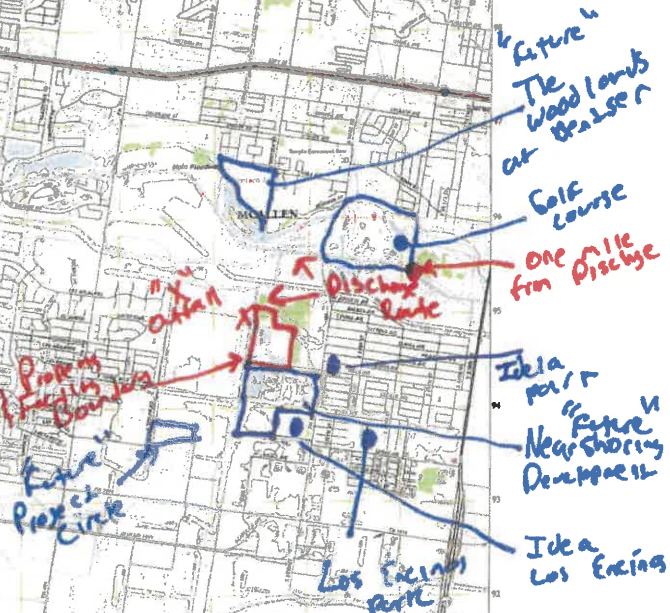
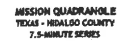
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
Vertical Datum: Mean Sea Level (MSL)
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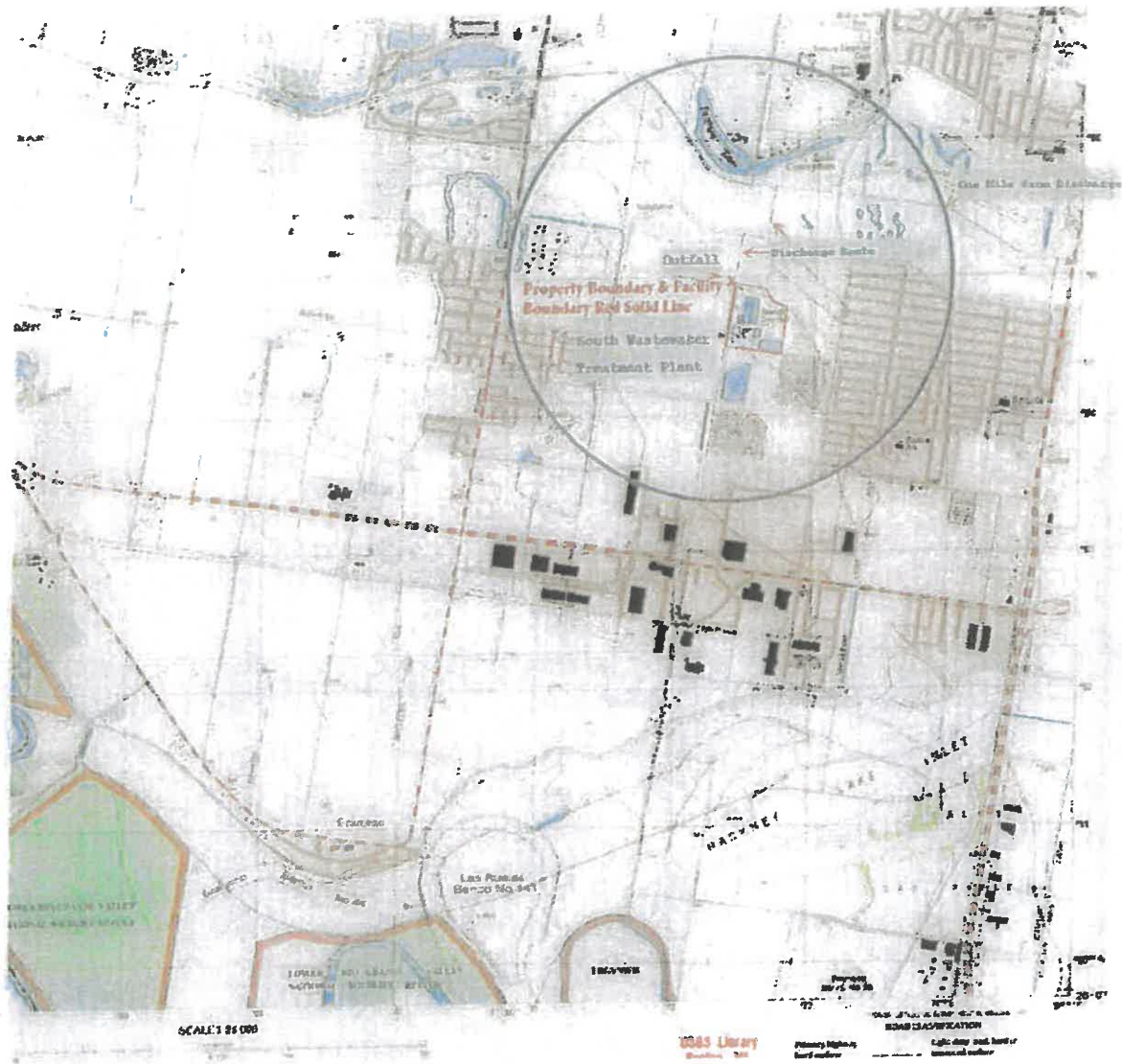
1	2	3
4	5	6
7	8	9

ROAD CLASSIFICATION
Expressway
Interstate Route
US Route
Route

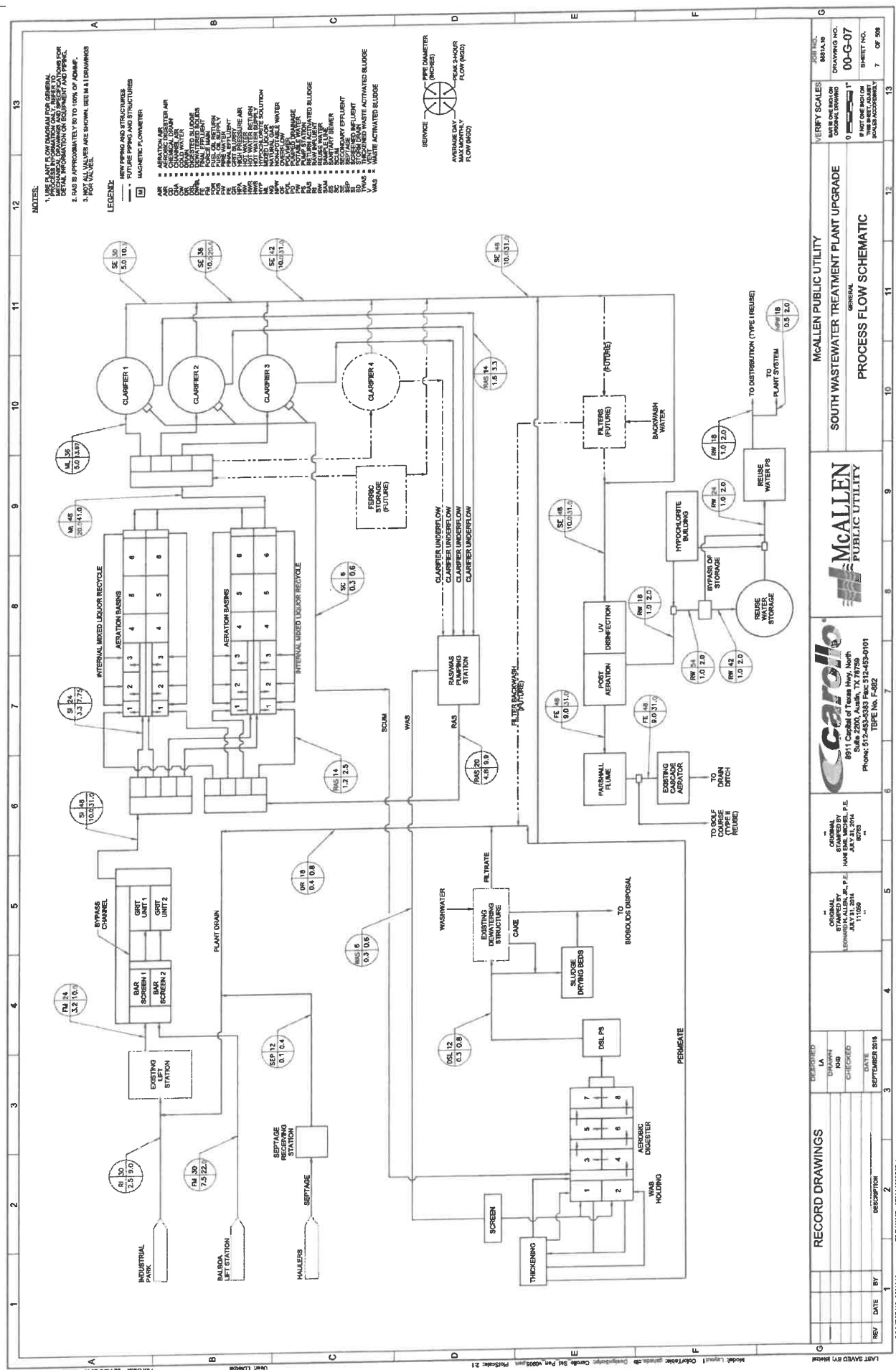
PHARR, TX
2022

MISSION, TX, TAM
2022

Screenshot to show close up detail.



Retrieved from USGS Map Mission, TEX-SON ISBN 0-607-99093-7



REV	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
RECORD DRAWINGS						
						DESIGNED
						LA
						DRAWN
						JOB
						CHECKED
						DATE
						SEPTEMBER 2015

Carollo
8911 Capital of Texas Hwy, North
Suite 2200, Austin, TX 78758
Phone: 512-453-5393 Fax: 512-453-0101
TBE No. F-582



McALLEN
PUBLIC UTILITY

McALLEN PUBLIC UTILITY
SOUTH WASTEWATER TREATMENT PLANT UPGRADE
GENERAL
PROCESS FLOW SCHEMATIC

VERIFY SCALES: BAR IS ONE INCH ON ORIGINAL DRAWING 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	JOB NO. 8081A, 10
	DRAWING NO. 00-G-07
	SHEET NO. 7 OF 508

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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Page 1 of 1

Project
1132119

MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

Printed 01/24/2025
9:46

TABLE OF CONTENTS

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1132119_r02_01_ProjectSamples	SPL Kilgore Project P:1132119 C:MCA8 Project Sample Cross Reference t:304	1
1132119_r03_03_ProjectResults	SPL Kilgore Project P:1132119 C:MCA8 Project Results t:304	3
1132119_r10_05_ProjectQC	SPL Kilgore Project P:1132119 C:MCA8 Project Quality Control Groups	4
1132119_r99_09_CoC__1_of_1	SPL Kilgore CoC MCA8 1132119_1_of_1	4
Total Pages:		12

Email: Kilgore.ProjectManagement@spillabs.com



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SAMPLE CROSS REFERENCE

Project

1132119

Printed 1/24/2025 Page 1 of 1

City of McAllen Waste Water
 R. Saenz/J. Espinoza
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 McAllen, TX 78503

Sample	Sample ID	Taken	Time	Received
2372015	SWWTP EFFLUENT	01/13/2025	12:45:00	01/14/2025

Bottle 01 Polyethylene Quart

Bottle 02 H2SO4 to pH <2 Glass Qt w/Teflon lined lid

Bottle 03 H2SO4 to pH <2 Glass Qt w/Teflon lined lid

Bottle 04 8 oz Plastic H2SO4 pH < 2

Bottle 05 HNO3 to pH <2 Polyethylene 250 mL for Metals

Bottle 06 Prepared Bottle: ICP Preparation for Metals (Batch 1156160) Volume: 50.00000 mL <== Derived from 05 (50 ml)

Bottle 07 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1156329) Volume: 20.00000 mL <== Derived from 04 (20 ml)

Bottle 08 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1156329) Volume: 20.00000 mL <== Derived from 04 (20 ml)

Bottle 09 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1156329) Volume: 20.00000 mL <== Derived from 04 (20 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1156730	01/16/2025	1156730	01/16/2025
EPA 300.0 2.1	01	1156200	01/14/2025	1156200	01/14/2025
EPA 200.7 4.4	06	1156160	01/15/2025	1156318	01/15/2025
SM 2320 B-2011	01	1156693	01/17/2025	1156693	01/17/2025
EPA 1664B	03	1157390	01/21/2025	1157390	01/21/2025
EPA 351.2 2	07	1156329	01/16/2025	1156672	01/17/2025

Email: Kilgore.ProjectManagement@spillabs.com

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Project

1132119

Printed: 01/24/2025

RESULTS

Sample Results

2372015 SWWTP EFFLUENT		Received: 01/14/2025	
Drinking Water	Collected by: Client	City of McAllen Was	PO:
	Taken: 01/13/2025	12:45:00	
EPA 1664B		Prepared: 1157390 01/21/2025 09:22:00	Analyzed 1157390 01/21/2025 09:22:00 MAX
NELAC	Parameter	Results	Units RL Flags CAS Bottle
	Oil and Grease (HEM)	<4.30	mg/L 4.30 03
EPA 200.7.4.4		Prepared: 1156160 01/15/2025 08:00:00	Analyzed 1156318 01/15/2025 16:16:00 CAS
NELAC	Parameter	Results	Units RL Flags CAS Bottle
	Phosphorus	4.76	mg/L 0.040 7723-14-0 06
EPA 300.0.2.1		Prepared: 1156200 01/14/2025 17:21:00	Analyzed 1156200 01/14/2025 17:21:00 KLB
NELAC	Parameter	Results	Units RL Flags CAS Bottle
	Nitrate-Nitrogen Total	10.9	mg/L 0.226 14797-55-8 01
EPA 300.0.2.1		Prepared: 1156730 01/16/2025 10:57:00	Analyzed 1156730 01/16/2025 10:57:00 KLB
NELAC	Parameter	Results	Units RL Flags CAS Bottle
	Chloride	197	mg/L 30.0 01
NELAC	Sulfate	241	mg/L 30.0 P 01
EPA 351.2.2		Prepared: 1156329 01/16/2025 08:16:18	Analyzed 1156672 01/17/2025 07:02:00 AMB
NELAC	Parameter	Results	Units RL Flags CAS Bottle
	Total Kjeldahl Nitrogen	1.13	mg/L 0.050 D 7727-37-9 07
SM 2320 B-2011		Prepared: 1156693 01/17/2025 09:00:00	Analyzed 1156693 01/17/2025 09:00:00 BLC
z	Parameter	Results	Units RL Flags CAS Bottle
	Total Alkalinity (as CaCO3)	138	mg/L 1.00 01

Sample Preparation



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 McAllen, TX 78503

Project
1132119

Printed: 01/24/2025

2372015 SWWTP EFFLUENT

Received: 01/14/2025

01/13/2025

	Prepared:	01/14/2025	12:01:46	Calculated	01/14/2025	12:01:46	CAL
z	Environmental Fee (per Sampling)	Verified					
	EPA 1664B	Prepared:	1157095	01/21/2025	09:22:00	Analyzed	1157095
			01/21/2025	09:22:00			MAX
NELAC	O&G HEM Started	Started					
	EPA 200.2 2.8	Prepared:	1156160	01/15/2025	08:00:00	Analyzed	1156160
			01/15/2025	08:00:00			HLT
z	Liquid Metals Digestion	50/50	ml				05
	EPA 351.2, Rev 2.0	Prepared:	1156329	01/16/2025	08:16:18	Analyzed	1156329
			01/16/2025	08:16:18			MEG
NELAC	TKN Block Digestion	20/20	ml				04



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McAllen, TX 78503-

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Project

1132119

Printed: 01/24/2025

Qualifiers:

D - Duplicate RPD was higher than expected P - Spike recovery outside control limits due to matrix effects.

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, MS, VP Technical Services



Report Page 5 of 13

QUALITY CONTROL



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2
3

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4100 Idela
McAllen, TX 78503-

Project

1132119

Printed 01/24/2025

EPA 351.2 2

Analytical Set 1156672

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1156329	ND	0.00712	0.050	mg/L	127224634

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.24	5.00	mg/L	105	90.0 - 110	127224620
Total Kjeldahl Nitrogen	5.27	5.00	mg/L	105	90.0 - 110	127224621
Total Kjeldahl Nitrogen	5.35	5.00	mg/L	107	90.0 - 110	127224622
Total Kjeldahl Nitrogen	5.32	5.00	mg/L	106	90.0 - 110	127224623
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	127224632
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	127224643
Total Kjeldahl Nitrogen	5.35	5.00	mg/L	107	90.0 - 110	127224654
Total Kjeldahl Nitrogen	5.37	5.00	mg/L	107	90.0 - 110	127224660
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127224661
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	127224663

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2372007	ND	ND	mg/L		20.0
Total Kjeldahl Nitrogen	2372015	1.45	1.13	mg/L	24.8 *	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.37	5.00	mg/L	107	90.0 - 110	127224619

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1156329	5.11	5.00	5.00	90.0 - 110	102	100	mg/L	2.18	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2372007	0.023	ND	5.00	mg/L	0	80.0 - 120	127224639
Total Kjeldahl Nitrogen	2372015	5.63	1.13	5.00	mg/L	90.0	80.0 - 120	127224642

EPA 1664B

Analytical Set 1157390

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1157390	1.00	0.804	4.00	mg/L	127241069

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1157390	0.0005			grams	127241068
Oil and Grease (HEM)	1157390	0.0004			grams	127241093

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Oil and Grease (HEM)	1157390	32.6	40.0	mg/L	81.5	78.0 - 114	127241070

Email: Kilgore.ProjectManagement@spilabs.com



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QUALITY CONTROL



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1132119

Printed 01/24/2025

MS										
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD
Oil and Grease (HEM)	2371664	39.7	0	4.13	40.0	78.0 - 114	88.9		mg/L	20.0
Analytical Set 1156200										EPA 300.0 2.1

AWRL/LOQ C							File
Parameter	Reading	Known	Units	Recover%	Limits%		
Nitrate-Nitrogen Total	0.0274	0.0226	mg/L	121	70.0 - 130		127213617

Blank							File
Parameter	PrepSet	Reading	MDL	MQL	Units		
Nitrate-Nitrogen Total	1156200	ND	0.00464	0.0226	mg/L		127213618

CCB							File
Parameter	PrepSet	Reading	MDL	MQL	Units		
Nitrate-Nitrogen Total	1156200	0	0.00464	0.0226	mg/L		127213614
Nitrate-Nitrogen Total	1156200	0	0.00464	0.0226	mg/L		127213634
Nitrate-Nitrogen Total	1156200	0	0.00464	0.0226	mg/L		127213646

CCV							File
Parameter	Reading	Known	Units	Recover%	Limits%		
Nitrate-Nitrogen Total	2.31	2.26	mg/L	102	90.0 - 110		127213613
Nitrate-Nitrogen Total	2.26	2.26	mg/L	100	90.0 - 110		127213633
Nitrate-Nitrogen Total	2.31	2.26	mg/L	102	90.0 - 110		127213645

LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nitrate-Nitrogen Total	1156200	1.23	1.23	1.13	86.3 - 117	109	109	mg/L	0	20.0

MSD										
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD
Nitrate-Nitrogen Total	2371893	2.39	2.38	ND	2.26	80.0 - 120	106	105	mg/L	0.419
Nitrate-Nitrogen Total	2371894	2.41	2.41	ND	2.26	80.0 - 120	107	107	mg/L	0

Analytical Set						1156730	EPA 300.0 2.1
Blank							
Parameter	PrepSet	Reading	MDL	MQL	Units	File	
Chloride	1156730	0.136	0.0593	0.300	mg/L	127225757	
Sulfate	1156730	ND	0.0605	0.300	mg/L	127225757	

CCB							File
Parameter	PrepSet	Reading	MDL	MQL	Units		
Chloride	1156730	0.106	0.0593	0.300	mg/L		127225753
Chloride	1156730	0.104	0.0593	0.300	mg/L		127225773
Chloride	1156730	0	0.0593	0.300	mg/L		127225785
Sulfate	1156730	0	0.0605	0.300	mg/L		127225753
Sulfate	1156730	0	0.0605	0.300	mg/L		127225773
Sulfate	1156730	0	0.0605	0.300	mg/L		127225785

Email: Kilgore.ProjectManagement@spilabs.com



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1132119

Printed 01/24/2025

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chloride	9.11	10.0	mg/L	91.1	90.0 - 110	127225752
Chloride	9.35	10.0	mg/L	93.5	90.0 - 110	127225772
Chloride	9.42	10.0	mg/L	94.2	90.0 - 110	127225784
Sulfate	9.28	10.0	mg/L	92.8	90.0 - 110	127225752
Sulfate	9.62	10.0	mg/L	96.2	90.0 - 110	127225772
Sulfate	9.65	10.0	mg/L	96.5	90.0 - 110	127225784

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride	1156730	4.30	4.28	5.00	85.0 - 115	86.0	85.6	mg/L	0.466	20.0
Sulfate	1156730	5.15	5.14	5.00	85.4 - 124	103	103	mg/L	0.194	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride	2372007	338	337	227	100	80.0 - 120	111	110	mg/L	0.905	20.0
Sulfate	2372007	409	411	254	100	80.0 - 120	155 *	157 *	mg/L	1.28	20.0
Chloride	2372015	302	308	197	100	80.0 - 120	105	111	mg/L	5.56	20.0
Sulfate	2372015	368	373	241	100	80.0 - 120	127 *	132 *	mg/L	3.86	20.0

Analytical Set 1156318

EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1156160	ND	0.0353	0.040	mg/L	127215422

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.01	1.00	mg/L	101	90.0 - 110	127215421
Phosphorus	1.06	1.00	mg/L	106	90.0 - 110	127215431

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	25.2	25.0	mg/L	101	95.0 - 105	127215419

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	127215420

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1156160	4.29	4.17	4.00	85.0 - 115	107	104	mg/L	2.84	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2372217	5.58	5.60	1.43	4.00	75.0 - 125	104	104	mg/L	0.481	25.0

Analytical Set 1156693

SM 2320 B-2011

Email: Kilgore.ProjectManagement@spilabs.com



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QUALITY CONTROL



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1132119

Printed 01/24/2025

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1156693	ND	1.00	1.00	mg/L	127225041
CCV						
Parameter		Reading	Known	Units	Recover%	Limits%
Total Alkalinity (as CaCO3)		24.6	25.0	mg/L	98.4	90.0 - 110
Total Alkalinity (as CaCO3)		27.1	25.0	mg/L	108	90.0 - 110
Total Alkalinity (as CaCO3)		27.1	25.0	mg/L	108	90.0 - 110
Duplicate						
Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2371115	9.84	9.84	mg/L	0	20.0
Total Alkalinity (as CaCO3)	2371933	89.6	102	mg/L	12.9	20.0
ICV						
Parameter		Reading	Known	Units	Recover%	Limits%
Total Alkalinity (as CaCO3)		24.6	25.0	mg/L	98.4	90.0 - 110
Mat. Spike						
Parameter	Sample	Spike	Unknown	Known	Units	Recovery %
Total Alkalinity (as CaCO3)	2371115	43.3	9.84	25.0	mg/L	134
Total Alkalinity (as CaCO3)	2371933	118	102	25.0	mg/L	64.0

* Out RPD is Relative Percent Difference: $\frac{\text{abs}(r_1 - r_2)}{\text{mean}(r_1, r_2)} * 100\%$ Recover% is Recovery Percent: $\frac{\text{result}}{\text{known}} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); 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; ICV - Initial Calibration Verification; 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.); 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.)

Email: Kilgore.ProjectManagement@spplabs.com



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MCA8
R-129
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City of McAllen		Wastewater Laboratory					
P.O. BOX 220/4100 Idela McAllen, Texas 78503 (956) 681-1764 Fax: (956) 681-1754		CHAIN-OF-CUSTODY RECORD					
Facility: SOUTH WWTP 4100 IDELA ST.		Sampling Location Outfall # 001					
Date collected 1/ 13 /25		Samplers: Refer to "Proportioned by flow" log.					
Sample Identification & No.	Sample Date/Time	Sample Type Comp. Grab.	# of Sample Containers	Sample Matrix	Preservative	Analysis	Comments
25-004 SWWTP Effluent	Start: 1/13 /25 @ 12:45	X	(1) 1 Lt. ml plastic Lot# 092824-06	Liquid	ICE	Chloride, Sulfate, Nitrate-Nitrogen, Total Alkalinity	Analyze according to 40 CFR 136 Methods
25-005 SWWTP Effluent	Start: 1/ 13 /25 @ 12:45	X	(2) 1 LT. GLASS Lot# J47040SPB	Liquid	H ₂ SO ₄	Oil and Grease	Analyze according to 40 CFR 136 Methods
25-006 SWWTP EFFLUENT	Start: 1/13/25 @ 12:45	X	(1) 250 ML PLASTIC Lot# M421804BB	Liquid	H ₂ SO4	TKN	Analyze according to 40 CFR 136 Methods
25-004, 005, 006	Relinquished by: Daniel G Pincoza	Date: 1/13 /25 Time: 12:50		Received by: WW Lab personnel David P		Date: 1/ 13 /25 Time: 12:50	
25-004, 005 25-006	Relinquished by WW Lab Date: 1/ 13 /25 Time: 1:30	Received By: SPL Carrier Frank Gomez		Date: 1/13 /25 Time: 1:30		Received by: SPL (KILGORE, Tx.) Temperature: _____ Custody seal broken: Yes _____ No _____	
	Relinquished by WW Lab Frank Gomez Date: 1-13-25 Time: 12:20	Received By: FedEx		Date: 1-13-25 Time: 1:28		Received by: _____ Temperature: _____ Custody seal broken: Yes _____ No _____	
REMARKS: Project No. P-25-002							
MCA 8-R 129 Please meet the MDL's specified on contract							

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MCAS
R-129
Page 2 of 2

CITY OF MCALLEN
P.O. BOX 220 / 4100 IDELA
McAllen, Tx. 78503

WASTEWATER LABORATORY

CHAIN OF CUSTODY RECORD

Facility: <u>South wastewater plant</u> 4100 Idale Ave		Sampling Location: CP-001		Date Collected: 1/13/2025		Samplers: Refer to "Proportioned by flow" log	
Sample & Identification No.	Sample Date/Time	Sample Type Comp.	Grab	# of sample containers	Sample Matrix	Preservative	Analysis
EFFLUENT 25-008	Start: 6:00 am End: 6:00		X	(1) 250 ml plastic Lot # M20690333	Liquid	HNO ₃	TOTAL PHOSPHORUS
							Analyze according to 40CFR 136 Methods Use the more sensitive method
25-008	Relinquished by: <u>Daniel Espinoza</u>			Date: <u>01-13-2025</u> Time: <u>12:50</u>		Received by: WW Lab Personnel <u>Daniel P.</u> Date: <u>01-13-2025</u> Time: <u>12:50</u>	
25-008	Relinquished by: WW Lab Personnel <u>[Signature]</u>			Date: <u>1-13-25</u> Time: <u>1:30</u>		Received by: SPL-Lab carrier <u>Frank Gumeru</u> Date: <u>1-13-25</u> Time: <u>13:30</u>	
	Relinquished by: <u>Frank Gumeru</u> Date: <u>1-13-25</u> Time: <u>17:30</u>		Received by: <u>FedEx</u>		Date: <u>1-13-25</u> Time: <u>17:30</u>		Received by: <u>[Signature]</u> Temperature: <u>0.5</u> Custody Seal broken: yes ☐ no ☒ Date: <u>1/14/25</u> Time: <u>10:15</u>

Remarks: Please meet the MDL's specified on contract

Project No. P-25-004

MCAS-R
129

1132119 CoC Print Group 001 of 001

Recipients Copy

ORIGIN 404 HLA (665) 555-5555
FROM LAB / REV
2401 VILLAGE DR STE C
BROOKVILLE TX 75626
UNITED STATES US

SHIP DATE 1/13/14
CUT OFF 05:20 PM
DIME 2401413 N
BILL THIRD

LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75662

FedEx
Express

8086 3186 9047
TUE 14 JAN 12:00P
PRIORITY OVERNIGHT
XS GGGA
75662
TX-US SHV

From
Date 1 Jan 13 25
Sender's Name
Therm#: 6443 Corr Fact: -0.3 C

1/14 10:15 KIR
Date Time Tech
Temp: 0.8 0.5 C

fedex.com 1.800.56.fedex 1.800.463.3339

**CITY OF MCALLEN, TX
WASTEWATER LABORATORY
ANALYTICAL REPORT**

SOUTH WASTEWATER TREATMENT PLANT

E.COLI REPORT

**PO BOX 220 / 4100 IDELA AVE.
MCALLEN, TX 78503
PHONE: (956) 681-1764
FAX: (956) 681-1754**

**ATTENTION TO: EDGAR TIJERINA
PLANT MANAGER**

		AM (SAMPLE)			
E.coli Analysis: (Source)	RESULTS: (MPN/100ml)	COLLECTED:		ANALYZED DATE:	ANALYST:
		DATE:	TIME:		
3ft. after Channel#1	2.00	11/3/2024	10:13 AM	11/3/2024	JO
3ft. after Channel#2	2.00	11/3/2024	10:12 AM	11/3/2024	JO
3ft. after Channel#3					

LAB MANAGER:

RUBEN

SAENZ

DAY: MONDAY

LAB SUPERVISOR:

JESUS

ESPINOZA

DATE: 11/4/2024

**REFERENCE: Colilert - 18 US EPA Wastewater Approval by 40 CFR part 136.3.
Standard Methods for the Examination of Water and Wastewater 22nd Edition, Section 9223 B.
(IDEXX Colilert - 18 with Quantitray)**

P.O. BOX 220 / 4100 Idela Ave. (Bldg. C)
McAllen, TX 78503
Tel: (956) 681 - 1764 FAX: (956) 681 - 1754

**CITY OF MCALLEN, TX
WASTEWATER LABORATORY**

Attention to: Edgar Tilerina
Plant Manager

**DAILY ANALYTICAL REPORT
SOUTH WATER RECLAMATION PLANT**

		SAMPLING DATE			SAMPLING DATE			
		*START: 10/26/2024			END: 10/27/2024			
		DATE ANALYZED:			DATE ANALYZED:			
		10/27/2024			11/1/2024			
SAMPLE SOURCE	ANALYTICAL PARAMETER	RESULT	UNITS	ANALYST	RESULT	UNITS	ANALYST	METHODS
INFLUENT	CBOD ₅	282	mg / L	CM				SECTION: 5210 B
EFFLUENT	CBOD ₅	1.79	mg / L	CM				SECTION: 5210 B
INFLUENT	TSS				122	mg / L	JL	SECTION: 2540 D
EFFLUENT	TSS				2.20	mg / L	JL	SECTION: 2540 D
EFFLUENT	NH ₃ - N				0.17	mg / L	JL	SECTION: 4500-NH ₃ -D
INFLUENT	NH ₃ - N				35.0	mg / L	JL	SECTION: 4500-NH ₃ -D

		DATE SAMPLED:		10/31/2024	
		DATE ANALYZED:		10/31/2024	
SAMPLE SOURCE	ANALYTICAL PARAMETER	RESULT	UNITS	ANALYST	METHODS
EFFLUENT	D.O.	6.85	mg / L	CM	SECTION: 4500-O G
EFFLUENT	pH	7.02	S.U.	JL	SECTION: 4500 - H+B
INFLUENT	pH	7.03	S.U.	JL	SECTION: 4500 - H+B
EFFLUENT	TURBIDITY	1.77	NTU	CM	SECTION: 2130 B
EFFLUENT	CONDUCTIVITY	1782	us/cm	CM	SECTION: 2510 B
EFFLUENT	TDS	1235	mg / L	CM	SECTION: 2540 C

LABORATORY MANAGER: RUBEN SAENZ

DATE: 11/1/2024

LABORATORY SUPERVISOR: JESUS ESPINOZA

DAY: FRIDAY

NOTE: * Indicates reporting date.
All methods are from Standard Methods for the Examination of Water and Wastewater.

BOD₅ INFLUENT ANALYSIS

Date Analyzed: 1 / 8 / 25
Date Out: 1 / 13 / 25

Time In: 10:45
Time Out: 8:25

Analyst: Jo
Analyst: W

Sample ID: WWTP #2 ~~WATER~~ Influent Extra
Sample Type: ~~SAMPLE~~ Grab

DATE COLLECTED: 1 / 8 / 25
DELIVERED BY: Michael L.

pH: 7.08 std. units

ADI: YES / ☒ NO — std. units.

T.S.S.: — mg/L

%Concentration	1.00	2.00	4.00
Bottle No.	96	261	519
Initial D.O. (D1)	8.71	8.62	8.45
Final D.O. (D2)	2.98	0.57	0.12
Actual Depletion (D1-D2)	5.73		
Seed Correction	0.81	0.81	0.81
Corrected Depletion ((D1-D2)-(B1-B2) F)	4.92		
Dilution Factor .P=100% / % SX	100	50.0	25.0
Results	492	X	X
FINAL RESULT:	492		mg/L

%CV

All $\frac{S}{X} = \frac{\quad}{\quad} \times 100 = \quad$

1st pair $\frac{S}{X} = \frac{\quad}{\quad} \times 100 = \quad$

2nd pair $\frac{S}{X} = \frac{\quad}{\quad} \times 100 = \quad$

Reviewed by: Jo
Day: Wednesday
Date: 1 / 8 / 25

Reviewed by: W VL 8
Day: Monday
Date: 1 / 13 / 25

CITY OF MCALLEN
P.O. BOX 226 / 4100 IDELA
McAllen, Tx. 78503

WASTEWATER LABORATORY

CHAIN OF CUSTODY RECORD

Facility : South wastewater plant 4100 Idela Ave		Sampling Location: C.P. 001		Date Collected: 9/23/24		Samplers: Refer to "Proportioned by flow" log	
Sample & Identification No.	Sample Date/Time	Sample Type Comp.	# of sample containers	Sample Matrix	Preservative	Analysis	Comments
EFFLUENT 24-215	Start 9/23/24 @ 8:00 am End 9/23/24 @ 6:00 am	24 Hrs	(1) 250 ml plastic Lot # M410006 BB	Liquid	H ₂ SO ₄	Total Phosphorus	Analyze according to 40CFR 136 Methods Use the more sensitive method
24-215	Relinquished by: Juan Moravi		7:32 AM 9/23/24			Received by: WW Lab Personnel	Date: 09-23-24 Time: 07:32
24-215	Relinquished by: WW Lab Personnel					Received by: SPL-Lab carrier Frank Gomez Jr - SPL, Inc.	Date: 9-23-24 Time: 11:30
24-215	Relinquished by:					Received by: SPL-LAB	Date: _____ Time: _____ Temperature: _____ Custody Seal broken: yes _____ no _____

Remarks: Please meet the MDL's specified on contract

Project No. P-24- 103

MCA8-R

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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MCA8-R

City of McAllen Waste Water
 R. Saenz/J. Espinoza
 P.O. Box 220
 4100 Idela
 McAllen, TX 78503-

Project
1119018

Printed: 09/25/2024

RESULTS

Sample Results

2336768 24-216 Received: 09/24/2024
 Non-Potable Water Collected by: Client City of McAllen Was PO:
 Composite Stop 06:00 9/23/24 Taken: 09/23/2024 06:00:00

SM 4500-P B-2011 Prepared: 1139729 09/25/2024 10:05:00 Analyzed 1139729 09/25/2024 10:05:00 SRJ
 Parameter Results Units RL Flags CAS Bottle
 NELAC Phosphorus (as P), total 4.99 mg/L 0.0622 7723-14-0 01

2336769 24-215 Received: 09/24/2024
 Non-Potable Water Collected by: Client SPL Kilgore PO:
 Composite Stop 06:00 9/23/24 Taken: 09/23/2024 06:00:00

SM 4500-P B-2011 Prepared: 1139729 09/25/2024 10:05:00 Analyzed 1139729 09/25/2024 10:05:00 SRJ
 Parameter Results Units RL Flags CAS Bottle
 NELAC Phosphorus (as P), total 4.25 mg/L 0.0311 7723-14-0 01

2336770 24-218 Received: 09/24/2024
 Non-Potable Water Collected by: Client City of McAllen Was PO:
 Composite Stop 06:00 9/23/24 Taken: 09/23/2024 06:00:00

SM 4500-P B-2011 Prepared: 1139729 09/25/2024 10:05:00 Analyzed 1139729 09/25/2024 10:05:00 SRJ
 Parameter Results Units RL Flags CAS Bottle
 NELAC Phosphorus (as P), total 5.10 mg/L 0.0622 7723-14-0 01

2336771 24-217 Received: 09/24/2024
 Non-Potable Water Collected by: Client City of McAllen Was PO:
 Composite Stop 06:00 9/23/24 Taken: 09/23/2024 06:00:00



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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
1092226

MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

Printed 03/06/2024
14:30

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P-24-016

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SAMPLE CROSS REFERENCE

Project

1092226

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3/6/2024

Page 1 of 2

City of McAllen Waste Water
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4100 Idela
McAllen, TX 78503

Sample	Sample ID	Taken	Time	Received
2273911	EFFLUENT	02/15/2024	08:45:00	02/16/2024

Bottle 01 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (ZHE) (2)
Bottle 02 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (ZHE) (2)
Bottle 03 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (ZHE) (2)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	02	1105424	02/20/2024	1105424	02/20/2024
Sample	Sample ID	Taken	Time	Received	
2273913	EFFLUENT	02/15/2024	06:00:00	02/16/2024	

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 Bottle, QEC, 16oz Plastic U016 (100 ea)
Bottle 08 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 09 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 10 HNO3 to pH <2 Polyethylene 250 mL for Metals
Bottle 11 Prepared Bottle: ICP Preparation for Metals (Batch 1104868) Volume: 50.00000 mL <== Derived from 10 (50 ml)
Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105146) Volume: 10.00000 mL <== Derived from 02 (1044 ml)
Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105152) Volume: 5.00000 mL <== Derived from 04 (993 ml)
Bottle 14 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1104937) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
Bottle 15 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1104938) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
Bottle 16 Prepared Bottle: OPXL\OPXS 2 mL Autosampler Vial (Batch 1104939) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
Bottle 17 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105392) Volume: 1.00000 mL <== Derived from 03 (1040 ml)
Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105610) Volume: 1.00000 mL <== Derived from 09 (944 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 615	12	1105146	02/20/2024	1106348	02/26/2024
EPA 632	14	1104937	02/19/2024	1106063	02/23/2024
EPA 300.0 2.1	07	1104943	02/16/2024	1104943	02/16/2024
EPA 604.1	13	1105152	02/20/2024	1105656	02/21/2024
EPA 1657	16	1104939	02/19/2024	1105944	02/22/2024
EPA 617	15	1104938	02/19/2024	1106431	02/26/2024
EPA 625.1	17	1105392	02/21/2024	1107651	03/04/2024
ASTM D7065-11	18	1105610	02/22/2024	1106682	02/27/2024

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Sample	Sample ID	Taken	Time	Received
2273913	EFFLUENT	02/15/2024	06:00:00	02/16/2024

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 Bottle, QEC, 16oz Plastic U016 (100 ea)
 Bottle 08 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 09 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
 Bottle 10 HNO3 to pH <2 Polyethylene 250 mL for Metals
 Bottle 11 Prepared Bottle: ICP Preparation for Metals (Batch 1104868) Volume: 50.00000 mL <== Derived from 10 (50 ml)
 Bottle 12 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105146) Volume: 10.00000 mL <== Derived from 02 (1044 ml)
 Bottle 13 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105152) Volume: 5.00000 mL <== Derived from 04 (993 ml)
 Bottle 14 Prepared Bottle: 632L\632S 2 mL Autosampler Vial (Batch 1104937) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
 Bottle 15 Prepared Bottle: GCXL\GCXS 2 mL Autosampler Vial (Batch 1104938) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
 Bottle 16 Prepared Bottle: OPXL\OPXS 2 mL Autosampler Vial (Batch 1104939) Volume: 1.00000 mL <== Derived from 01 (1044 ml)
 Bottle 17 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105392) Volume: 1.00000 mL <== Derived from 03 (1040 ml)
 Bottle 18 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105610) Volume: 1.00000 mL <== Derived from 09 (944 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	11	1104868	02/19/2024	1105560	02/21/2024
EPA 200.8 5.4	11	1104868	02/19/2024	1105034	02/20/2024

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Project

1092226

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P-24-016

RESULTS

Sample Results

2273911 EFFLUENT

Received: 02/16/2024

Non-Potable Water

Collected by: Client
Taken: 02/15/2024

City of McAllen Was
08:45:00

PO:

EPA 624.1

Prepared: 1105424 02/20/2024 18:39:00 Analyzed 1105424 02/20/2024 18:39:00 MRI

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC (MTBE) tert-Butylmethylether	<1.00	ug/L	1.00		1634-04-4	02
NELAC 1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	02
NELAC Bromodichloromethane	<1.00	ug/L	1.00		75-27-4	02
NELAC Bromoform	<1.00	ug/L	1.00		75-25-2	02
NELAC Chloroform	<1.00	ug/L	1.00		67-66-3	02
NELAC Dibromochloromethane	<1.00	ug/L	1.00		124-48-1	02
NELAC Methyl ethyl ketone (Butanone)	<1.00	ug/L	1.00		78-93-3	02

EPA 624.1

Prepared: 1105424 02/26/2024 11:51:21 Calculated 1105424 02/26/2024 11:51:21 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Trihalomethanes (Total)	<0.001	mg/L	0.001			02

2273913 EFFLUENT

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Non-Potable Water

Composite Stop 06:00 2/15/24

Collected by: Client
Taken: 02/15/2024

City of McAllen Was
06:00:00

PO:

ASTM D7065-11

Prepared: 1105610 02/22/2024 09:00:00 Analyzed 1106682 02/27/2024 19:10:00 DWL

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Nonylphenol	<31.8	ug/L	31.8		25154-52-3	18

EPA 1657

Prepared: 1104939 02/20/2024 09:30:00 Analyzed 1105944 02/22/2024 03:36:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
z Azinphos-methyl (Guthion)	<0.0479	ug/L	0.0479		86-50-0	16
z Chlorpyrifos	<0.0479	ug/L	0.0479		2921-88-2	16
z Demeton	<0.0479	ug/L	0.0479		8065-49-3	16



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Project

1092226

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2273913 EFFLUENT

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Non-Potable Water

Collected by: Client

City of McAllen Was

PO:

Composite Stop 06:00 2/15/24

Taken: 02/15/2024

06:00:00

EPA 1657

Prepared: 1104939 02/20/2024 09:30:00 Analyzed 1105944 02/22/2024 03:36:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
Diazinon	<0.0479	ug/L	0.0479		333-41-5	16
Malathion	<0.0479	ug/L	0.0479		121-75-5	16
Parathion, ethyl	<0.0479	ug/L	0.0479		56-38-2	16
Parathion, methyl	<0.0479	ug/L	0.0479		298-00-0	16

EPA 200.8 5.4

Prepared: 1104868 02/19/2024 10:30:00 Analyzed 1105034 02/20/2024 05:08:00 JC2

Parameter	Results	Units	RL	Flags	CAS	Bottle
Barium, Total	0.0691	mg/L	0.005		7440-39-3	11

EPA 200.8 5.4

Prepared: 1104868 02/19/2024 10:30:00 Analyzed 1105560 02/21/2024 21:13:00 ESG

Parameter	Results	Units	RL	Flags	CAS	Bottle
Aluminum, Total	0.0219	mg/L	0.005		7429-90-5	11

EPA 300.0 2.1

Prepared: 1104943 02/16/2024 22:41:00 Analyzed 1104943 02/16/2024 22:41:00 NAZ

Parameter	Results	Units	RL	Flags	CAS	Bottle
Fluoride	1.00	mg/L	1.00			07
Nitrate-Nitrogen Total	9.42	mg/L	0.226		14797-55-8	07

EPA 604.1

Prepared: 1105152 02/20/2024 13:45:00 Analyzed 1105656 02/21/2024 23:19:00 BRU

Parameter	Results	Units	RL	Flags	CAS	Bottle
Hexachlorophene	<1.26	ug/L	1.26		70-30-4	13

EPA 615

Prepared: 1105146 02/20/2024 13:00:00 Analyzed 1106348 02/26/2024 20:13:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
2,4 Dichlorophenoxyacetic acid	<0.479	ug/L	0.479	S	94-75-7	12
2,4,5-TP (Silvex)	<0.287	ug/L	0.287	S	93-72-1	12

EPA 617

Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1106431 02/26/2024 23:03:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
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Project

1092226

Printed: 03/06/2024

2273913 EFFLUENT

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Non-Potable Water
Composite Stop 06:00 2/15/24
Collected by: Client
Taken: 02/15/2024

City of McAllen Was
06:00:00

PO:

EPA 617

Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1106431 02/26/2024 23:03:00 KAP

Parameter	Results	Units	RL	Flags	CAS	Bottle
Kelthane (Dicofol)	<0.0479	ug/L	0.0479	D	115-32-2	15
Methoxychlor	<0.00958	ug/L	0.00958		72-43-5	15
Mirex	<0.00958	ug/L	0.00958		2385-85-5	15

EPA 625.1

Prepared: 1105392 02/21/2024 11:15:00 Analyzed 1107651 03/04/2024 23:28:00 DWL

Parameter	Results	Units	RL	Flags	CAS	Bottle
1,2,4,5-Tetrachlorobenzene	<0.962	ug/L	0.962		95-94-3	17
2,4,5-Trichlorophenol	<0.962	ug/L	0.962		95-95-4	17
2-Methylphenol (o-Cresol)	<5.00	ug/L	5.00		95-48-7	17
3&4-Methylphenol (m&p-Cresol)	<5.96	ug/L	5.96		MEPH34	17
n-Nitrosodiethylamine	<0.962	ug/L	0.962	S	55-18-5	17
n-Nitroso-di-n-butylamine	<0.962	ug/L	0.962		924-16-3	17
Pentachlorobenzene	<0.962	ug/L	0.962		608-93-5	17
Pyridine	<5.19	ug/L	5.19		110-86-1	17

EPA 625.1

Prepared: 1105392 02/21/2024 11:15:00 Calculated 1107651 03/06/2024 14:08:10 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
Cresols Total	<5.96	ug/L	5.96		1319-77-3, etc.	17

EPA 632

Prepared: 1104937 02/20/2024 09:30:00 Analyzed 1106063 02/23/2024 06:30:00 BRU

Parameter	Results	Units	RL	Flags	CAS	Bottle
Carbaryl (Sevin)	<2.39	ug/L	2.39		63-25-2	14
Danitrol	<0.0958	ug/L	0.0958		64357-84-7	14
Diuron	<0.0431	ug/L	0.0431	D	330-54-1	14

Sample Preparation

2273911 EFFLUENT

Received: 02/16/2024

02/15/2024



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Project
 1092226

Printed: 03/06/2024

2273911 EFFLUENT

Received: 02/16/2024

02/15/2024

EPA 624.1

Prepared: 1105424 02/20/2024 18:39:00 Analyzed 1105424 02/20/2024 18:39:00 MR1

30 TAC 307 THM/MEK/EDB

Entered

02

2273913 EFFLUENT

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Composite Stop 06:00 2/15/24

02/15/2024

Prepared: 02/19/2024 12:34:04 Calculated 02/19/2024 12:34:04 CAL

Environmental Fee (per Project)

Verified

ASTMD7065-11

Prepared: 1105610 02/22/2024 09:00:00 Analyzed 1106682 02/27/2024 19:10:00 DWL

Nonyl Phenol Expansion

Entered

18

EPA 1657

Prepared: 1104930 02/20/2024 09:30:00 Analyzed 1105944 02/22/2024 03:36:00 KAP

30 TAC 307 Organophosphorous

Entered

16

EPA 200.2 2.8

Prepared: 1104868 02/19/2024 10:30:00 Analyzed 1104868 02/19/2024 10:30:00 HLT

Liquid Metals Digestion

50/50

ml

10

EPA 604.1

Prepared: 1105152 02/20/2024 13:45:00 Analyzed 1105152 02/20/2024 13:45:00 MCC

Hexachlorophene Extraction

5/993

ml

04



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Project

1092226

Printed: 03/06/2024

2273913 EFFLUENT

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Composite Stop 06:00 2/15/24 02/15/2024

EPA 604.1	Prepared:	1105152	02/20/2024	13:45:00	Analyzed	1105656	02/21/2024	23:19:00	BRU
Hexachlorophene Expansion	Entered						70-30-4		13
EPA 608.3	Prepared:	1104938	02/20/2024	09:30:00	Analyzed	1104938	02/20/2024	09:30:00	MCC
Liquid-Liquid Extr. W/Hex Ex	1/1044	ml							01
EPA 608.3	Prepared:	1104939	02/20/2024	09:30:00	Analyzed	1104939	02/20/2024	09:30:00	MCC
Solvent Extraction	1/1044	ml							01
EPA 615	Prepared:	1105146	02/20/2024	13:00:00	Analyzed	1105146	02/20/2024	13:00:00	MCC
NELAC Esterification of Sample	10/1044	ml							02
EPA 615	Prepared:	1105146	02/20/2024	13:00:00	Analyzed	1106348	02/26/2024	20:13:00	KAP
Herbicides Permit Renewal List	Entered								12
EPA 617	Prepared:	1104938	02/20/2024	09:30:00	Analyzed	1106431	02/26/2024	23:03:00	KAP
30 TAC 307 Pesticides	Entered								15
EPA 625.1	Prepared:	1105392	02/21/2024	11:15:00	Analyzed	1105392	02/21/2024	11:15:00	MCC
Liquid-Liquid Extraction, BNA	1/1040	ml							03
EPA 625.1	Prepared:	1105392	02/21/2024	11:15:00	Analyzed	1107651	03/04/2024	23:28:00	DWL
30 TAC 307 Semivolatiles	Entered								17



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Project

1092226

Printed: 03/06/2024

2273913 **EFFLUENT**

COMP 2/14 0800 2-15 0600

Received: 02/16/2024

Composite Stop 06:00 2/15/24 02/15/2024

EPA 625.1

Prepared: 1105610 02/22/2024 09:00:00 Analyzed 1105610 02/22/2024 09:00:00 MCC

Nonylphenol Liq-Liq Extract

1/944 ml

09

EPA 632

Prepared: 1104937 02/20/2024 09:30:00 Analyzed 1104937 02/20/2024 09:30:00 MCC

Liquid-Liquid Extr. W/Hex Ex

1/1044 ml

01

EPA 632

Prepared: 1104937 02/20/2024 09:30:00 Analyzed 1106063 02/23/2024 06:30:00 BRU

Carbaryl/Dinron/Danitol

Entered

14

Qualifiers:

D - Duplicate RPD was higher than expected

S - Standard reads lower than desired

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

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

(N)ELAC - Covered in our NELAC scope of accreditation

z -- Not covered by our NELAC scope of accreditation

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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QUALITY CONTROL



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Project
1092226

Printed 03/06/2024

EPA 300.0 2.1

Analytical Set **1104943**

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	0.089	0.100	mg/L	89.0	70.0 - 130	125998451
Nitrate-Nitrogen Total	0.0176	0.0226	mg/L	77.9	70.0 - 130	125998451

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1104943	ND	0.010	0.100	mg/L	125998452
Nitrate-Nitrogen Total	1104943	ND	0.00745	0.0226	mg/L	125998452

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoride	1104943	0	0.010	0.100	mg/L	125998448
Fluoride	1104943	0	0.010	0.100	mg/L	125998466
Fluoride	1104943	0	0.010	0.100	mg/L	125998475
Nitrate-Nitrogen Total	1104943	0	0.00745	0.0226	mg/L	125998448
Nitrate-Nitrogen Total	1104943	0	0.00745	0.0226	mg/L	125998466
Nitrate-Nitrogen Total	1104943	0	0.00745	0.0226	mg/L	125998475

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	125998447
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	125998465
Fluoride	9.84	10.0	mg/L	98.4	90.0 - 110	125998474
Nitrate-Nitrogen Total	2.19	2.26	mg/L	96.9	90.0 - 110	125998447
Nitrate-Nitrogen Total	2.30	2.26	mg/L	102	90.0 - 110	125998465
Nitrate-Nitrogen Total	2.15	2.26	mg/L	95.1	90.0 - 110	125998474

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride	1104943	5.15	5.15	5.00	88.0 - 115	103	103	mg/L	0	20.0
Nitrate-Nitrogen Total	1104943	1.13	1.14	1.13	88.0 - 116	100	101	mg/L	0.881	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride	2272769	106	106	ND	100	80.0 - 120	106	106	mg/L	0	20.0
Nitrate-Nitrogen Total	2272769	24.4	24.0	ND	22.6	80.0 - 120	108	106	mg/L	1.65	20.0
Fluoride	2273004	110	110	ND	100	80.0 - 120	110	110	mg/L	0	20.0
Nitrate-Nitrogen Total	2273004	27.3	26.8	6.57	22.6	80.0 - 120	91.7	89.5	mg/L	2.44	20.0

EPA 200.8 5.4

Analytical Set **1105034**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Barium, Total	1104868	ND	0.00207	0.005	mg/L	126002154

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
1092226

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CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Barium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126002072
Barium, Total	0.0512	0.05	mg/L	102	90.0 - 110	126002082
Barium, Total	0.0509	0.05	mg/L	102	90.0 - 110	126002101
Barium, Total	0.0518	0.05	mg/L	104	90.0 - 110	126002110
Barium, Total	0.051	0.05	mg/L	102	90.0 - 110	126002121
Barium, Total	0.0512	0.05	mg/L	102	90.0 - 110	126002131
Barium, Total	0.051	0.05	mg/L	102	90.0 - 110	126002142
Barium, Total	0.0511	0.05	mg/L	102	90.0 - 110	126002150
Barium, Total	0.051	0.05	mg/L	102	90.0 - 110	126002160
Barium, Total	0.0513	0.05	mg/L	103	90.0 - 110	126002171
Barium, Total	0.0508	0.05	mg/L	102	90.0 - 110	126002182
Barium, Total	0.051	0.05	mg/L	102	90.0 - 110	126002190

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Barium, Total	0.0515	0.05	mg/L	103	90.0 - 110	126002014

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Barium, Total	1104868	0.512	0.511	0.500	85.0 - 115	102	102	mg/L	0.196	20.0

MSD

<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Barium, Total	2273984	0.663	0.670	0.149	0.500	70.0 - 130	103	104	mg/L	1.35	20.0

EPA 200.8 5.4

Analytical Set 1105560

Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>
Aluminum, Total	1104868	0.00391	0.0039	0.005	mg/L	126016609

CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Aluminum, Total	0.0533	0.05	mg/L	107	90.0 - 110	126016561
Aluminum, Total	0.0545	0.05	mg/L	109	90.0 - 110	126016578
Aluminum, Total	0.0543	0.05	mg/L	109	90.0 - 110	126016591
Aluminum, Total	0.0534	0.05	mg/L	107	90.0 - 110	126016595
Aluminum, Total	0.0544	0.05	mg/L	109	90.0 - 110	126016599
Aluminum, Total	0.0543	0.05	mg/L	109	90.0 - 110	126016604
Aluminum, Total	0.0534	0.05	mg/L	107	90.0 - 110	126016608
Aluminum, Total	0.054	0.05	mg/L	108	90.0 - 110	126016619
Aluminum, Total	0.0541	0.05	mg/L	108	90.0 - 110	126016630
Aluminum, Total	0.0541	0.05	mg/L	108	90.0 - 110	126016688
Aluminum, Total	0.0537	0.05	mg/L	107	90.0 - 110	126016689

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aluminum, Total	0.0502	0.05	mg/L	100	90.0 - 110	126016554

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	1104868	0.518	0.528	0.500	85.0 - 115	104	106	mg/L	1.91	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	2273846	0.514	0.519	0.00475	0.500	70.0 - 130	102	103	mg/L	0.977	20.0
Aluminum, Total	2273984	0.612	0.658	0.168	0.500	70.0 - 130	88.8	98.0	mg/L	9.85	20.0

EPA 624.1

Analytical Set

1105424

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1105424	174	150	0.9	0 - 2.00	126013551
BFB Mass 174	1105424	95.0	17000	61.5	50.0 - 100	126013551
BFB Mass 175	1105424	174	1275	7.5	5.00 - 9.00	126013551
BFB Mass 176	1105424	174	16990	99.9	95.0 - 101	126013551
BFB Mass 177	1105424	176	1245	7.3	5.00 - 9.00	126013551
BFB Mass 50	1105424	95.0	4749	17.2	15.0 - 40.0	126013551
BFB Mass 75	1105424	95.0	13397	48.4	30.0 - 60.0	126013551
BFB Mass 95	1105424	95.0	27659	100.0	100 - 100	126013551
BFB Mass 96	1105424	95.0	1822	6.6	5.00 - 9.00	126013551

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
(MTBE) tert-Butylmethylether	1105424	ND	0.638	1.00	ug/L	126013556
1,2-Dibromoethane (EDB)	1105424	ND	0.562	1.00	ug/L	126013556
Bromodichloromethane	1105424	ND	0.409	1.00	ug/L	126013556
Bromoform	1105424	ND	0.500	1.00	ug/L	126013556
Chloroform	1105424	ND	0.463	1.00	ug/L	126013556
Dibromochloromethane	1105424	ND	0.311	1.00	ug/L	126013556
Methyl ethyl ketone (Butanone)	1105424	ND	0.742	1.00	ug/L	126013556

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1105424	LCS	140900	138300	69140	207400	126013554	1105424
1,4-DichlorobenzeneD4 (ISTD)	1105424	LCS Dup	136800	138300	69140	207400	126013555	1105424
1,4-DichlorobenzeneD4 (ISTD)	1105424	Blank	143500	138300	69140	207400	126013556	1105424
ChlorobenzeneD5 (ISTD)	1105424	LCS	308800	292900	146400	439300	126013554	1105424
ChlorobenzeneD5 (ISTD)	1105424	LCS Dup	307200	292900	146400	439300	126013555	1105424
ChlorobenzeneD5 (ISTD)	1105424	Blank	316300	292900	146400	439300	126013556	1105424
1,4-DichlorobenzeneD4 (ISTD)	2273911	Unknown	163300	138300	69140	207400	126013557	1105424
ChlorobenzeneD5 (ISTD)	2273911	Unknown	351600	292900	146400	439300	126013557	1105424
1,4-DichlorobenzeneD4 (ISTD)	2274223	MS	157400	138300	69140	207400	126013561	1105424
1,4-DichlorobenzeneD4 (ISTD)	2274223	MSD	148300	138300	69140	207400	126013562	1105424



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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
ChlorobenzeneD5 (ISTD)	2274223	MS	352500	292900	146400	439300	126013561	1105424
ChlorobenzeneD5 (ISTD)	2274223	MSD	321700	292900	146400	439300	126013562	1105424

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1105424	LCS	11.97	11.97	11.91	12.03	126013554	1105424
1,4-DichlorobenzeneD4 (ISTD)	1105424	LCS Dup	11.97	11.97	11.91	12.03	126013555	1105424
1,4-DichlorobenzeneD4 (ISTD)	1105424	Blank	11.97	11.97	11.91	12.03	126013556	1105424
ChlorobenzeneD5 (ISTD)	1105424	LCS	9.597	9.597	9.537	9.657	126013554	1105424
ChlorobenzeneD5 (ISTD)	1105424	LCS Dup	9.597	9.597	9.537	9.657	126013555	1105424
ChlorobenzeneD5 (ISTD)	1105424	Blank	9.597	9.597	9.537	9.657	126013556	1105424
1,4-DichlorobenzeneD4 (ISTD)	2273911	Unknown	11.97	11.97	11.91	12.03	126013557	1105424
ChlorobenzeneD5 (ISTD)	2273911	Unknown	9.597	9.597	9.537	9.657	126013557	1105424
1,4-DichlorobenzeneD4 (ISTD)	2274223	MS	11.97	11.97	11.91	12.03	126013561	1105424
1,4-DichlorobenzeneD4 (ISTD)	2274223	MSD	11.97	11.97	11.91	12.03	126013562	1105424
ChlorobenzeneD5 (ISTD)	2274223	MS	9.597	9.597	9.537	9.657	126013561	1105424
ChlorobenzeneD5 (ISTD)	2274223	MSD	9.597	9.597	9.537	9.657	126013562	1105424

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
(MTBE) tert-Butylmethylether	1105424	20.0	20.2	20.0	70.8 - 125	100	101	ug/L	0.995	30.0
1,2-Dibromoethane (EDB)	1105424	22.4	22.4	20.0	78.4 - 122	112	112	ug/L	0	30.0
Bromodichloromethane	1105424	20.2	19.8	20.0	65.0 - 135	101	99.0	ug/L	2.00	34.0
Bromoform	1105424	18.8	19.1	20.0	70.0 - 130	94.0	95.5	ug/L	1.58	25.0
Chloroform	1105424	23.3	22.7	20.0	70.0 - 135	116	114	ug/L	1.74	32.0
Dibromochloromethane	1105424	20.1	20.1	20.0	70.0 - 135	100	100	ug/L	0	30.0
Methyl ethyl ketone (Butanone)	1105424	21.3	22.2	20.0	62.3 - 136	106	111	ug/L	4.61	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
(MTBE) tert-Butylmethylether	2274223	190	190	3.90	200	28.8 - 124	93.0	93.0	ug/L	0	30.0
1,2-Dibromoethane (EDB)	2274223	198	199	3.90	200	49.3 - 120	97.0	97.6	ug/L	0.514	30.0
Bromodichloromethane	2274223	176	169	3.90	200	35.0 - 155	86.0	82.6	ug/L	4.15	56.0
Bromoform	2274223	183	175	3.90	200	45.0 - 169	89.6	85.6	ug/L	4.57	42.0
Chloroform	2274223	198	196	3.90	200	51.0 - 138	97.0	96.0	ug/L	1.04	54.0
Dibromochloromethane	2274223	180	179	3.00	200	53.0 - 149	88.5	88.0	ug/L	0.567	50.0
Methyl ethyl ketone (Butanone)	2274223	198	188	3.90	200	0.100 - 211	97.0	92.0	ug/L	5.29	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1105424	LCS	19.3	20.0	ug/L	96.5	70.0 - 130	126013554
1,2-DCA-d4 (SURR)	1105424	LCS Dup	18.9	20.0	ug/L	94.5	70.0 - 130	126013555
1,2-DCA-d4 (SURR)	1105424	Blank	19.2	20.0	ug/L	96.0	70.0 - 130	126013556
Bromofluorobenzene (SURR)	1105424	LCS	19.6	20.0	ug/L	98.0	70.0 - 130	126013554
Bromofluorobenzene (SURR)	1105424	LCS Dup	19.8	20.0	ug/L	99.0	70.0 - 130	126013555
Bromofluorobenzene (SURR)	1105424	Blank	19.4	20.0	ug/L	97.0	70.0 - 130	126013556



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Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Dibromofluoromethane (SURR)	1105424	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	126013554
Dibromofluoromethane (SURR)	1105424	LCS Dup	19.2	20.0	ug/L	96.0	70.0 - 130	126013555
Dibromofluoromethane (SURR)	1105424	Blank	18.9	20.0	ug/L	94.5	70.0 - 130	126013556
TolueneD8 (SURR)	1105424	LCS	20.2	20.0	ug/L	101	70.0 - 130	126013554
TolueneD8 (SURR)	1105424	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	126013555
TolueneD8 (SURR)	1105424	Blank	20.1	20.0	ug/L	100	70.0 - 130	126013556
1,2-DCA-d4 (SURR)	2273911	Unknown	19.9	20.0	ug/L	99.5	70.0 - 130	126013557
Bromofluorobenzene (SURR)	2273911	Unknown	19.7	20.0	ug/L	98.5	70.0 - 130	126013557
Dibromofluoromethane (SURR)	2273911	Unknown	21.0	20.0	ug/L	105	70.0 - 130	126013557
TolueneD8 (SURR)	2273911	Unknown	21.0	20.0	ug/L	105	70.0 - 130	126013557
1,2-DCA-d4 (SURR)	2274223	MS	19.4	20.0	ug/L	97.0	70.0 - 130	126013561
1,2-DCA-d4 (SURR)	2274223	MSD	17.3	20.0	ug/L	86.5	70.0 - 130	126013562
Bromofluorobenzene (SURR)	2274223	MS	20.2	20.0	ug/L	101	70.0 - 130	126013561
Bromofluorobenzene (SURR)	2274223	MSD	19.6	20.0	ug/L	98.0	70.0 - 130	126013562
Dibromofluoromethane (SURR)	2274223	MS	20.3	20.0	ug/L	102	70.0 - 130	126013561
Dibromofluoromethane (SURR)	2274223	MSD	19.9	20.0	ug/L	99.5	70.0 - 130	126013562
TolueneD8 (SURR)	2274223	MS	20.5	20.0	ug/L	102	70.0 - 130	126013561
TolueneD8 (SURR)	2274223	MSD	20.0	20.0	ug/L	100	70.0 - 130	126013562

EPA 604.1

Analytical Set

1105656

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Hexachlorophene	1105152	ND	0.890	1.25	ug/L	126018323

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Hexachlorophene	4880	5000	ug/L	97.7	70.0 - 130	126018322
Hexachlorophene	4810	5000	ug/L	96.1	70.0 - 130	126018329
Hexachlorophene	4990	5000	ug/L	99.7	70.0 - 130	126018333
Hexachlorophene	5190	5000	ug/L	104	70.0 - 130	126018337
Hexachlorophene	4880	5000	ug/L	97.6	70.0 - 130	126018341

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Hexachlorophene	1105152	36.0	32.5	50.0	25.5 - 145	72.0	65.0	ug/L	10.2	50.0

EPA 1657

Analytical Set

1105944

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Azinphos-methyl (Guthion)	1104939	ND	41.4	50.0	ug/L	126024812
Chlorpyrifos	1104939	ND	22.6	50.0	ug/L	126024812
Demeton	1104939	ND	31.9	50.0	ug/L	126024812
Diazinon	1104939	ND	19.7	50.0	ug/L	126024812
Malathion	1104939	ND	24.8	50.0	ug/L	126024812
Parathion, ethyl	1104939	ND	23.9	50.0	ug/L	126024812



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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Parathion, methyl	1104939	ND	27.4	50.0	ug/L	126024812

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	1040	1000	ug/L	104	37.0 - 150	126024811
Azinphos-methyl (Guthion)	1390	1000	ug/L	139	37.0 - 150	126024818
Azinphos-methyl (Guthion)	1020	1000	ug/L	102	37.0 - 150	126024823
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	126024811
Chlorpyrifos	1160	1000	ug/L	116	48.0 - 150	126024818
Chlorpyrifos	1220	1000	ug/L	122	48.0 - 150	126024823
Demeton	1030	1000	ug/L	103	16.0 - 150	126024811
Demeton	1340	1000	ug/L	134	16.0 - 150	126024818
Demeton	1130	1000	ug/L	113	16.0 - 150	126024823
Diazinon	1010	1000	ug/L	101	50.0 - 150	126024811
Diazinon	1220	1000	ug/L	122	50.0 - 150	126024818
Diazinon	1090	1000	ug/L	109	50.0 - 150	126024823
Diazinon	1020	1000	ug/L	102	50.0 - 150	126024811
Malathion	1070	1000	ug/L	107	50.0 - 150	126024818
Malathion	942	1000	ug/L	94.2	50.0 - 150	126024823
Parathion, ethyl	1030	1000	ug/L	103	50.0 - 150	126024811
Parathion, ethyl	1150	1000	ug/L	115	50.0 - 150	126024818
Parathion, ethyl	771	1000	ug/L	77.1	50.0 - 150	126024823
Parathion, methyl	1030	1000	ug/L	103	50.0 - 150	126024811
Parathion, methyl	1050	1000	ug/L	105	50.0 - 150	126024818
Parathion, methyl	727	1000	ug/L	72.7	50.0 - 150	126024823

LCS Dup

Parameter	PrepSet	LCS	LCS%	Known	Limits%	LCS%	LCS%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1104939	514	653	1000	0.100 - 152	51.4	65.3	ug/L	23.8	50.0
Chlorpyrifos	1104939	608	674	1000	0.100 - 132	60.8	67.4	ug/L	10.3	50.0
Demeton	1104939	453	665	1000	0.100 - 114	45.3	66.5	ug/L	37.9	50.0
Diazinon	1104939	619	751	1000	0.100 - 119	61.9	75.1	ug/L	19.3	50.0
Malathion	1104939	781	841	1000	0.100 - 126	78.1	84.1	ug/L	7.40	50.0
Parathion, ethyl	1104939	645	728	1000	0.100 - 138	64.5	72.8	ug/L	12.1	50.0
Parathion, methyl	1104939	511	606	1000	0.100 - 125	51.1	60.6	ug/L	17.0	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	2273947	0.911	0.792	ND	1.12	30.0 - 130	88.4	76.9	ug/L	14.0	30.0
Chlorpyrifos	2273947	0.689	0.612	ND	1.12	30.0 - 130	66.9	59.4	ug/L	11.8	30.0
Demeton	2273947	0.753	0.606	ND	1.12	30.0 - 130	73.1	58.8	ug/L	21.6	30.0
Diazinon	2273947	0.790	0.671	ND	1.12	30.0 - 130	76.7	65.1	ug/L	16.3	30.0
Malathion	2273947	0.920	0.791	ND	1.12	30.0 - 130	89.3	76.8	ug/L	15.1	30.0
Parathion, ethyl	2273947	0.914	0.777	ND	1.12	30.0 - 130	88.7	75.4	ug/L	16.2	30.0
Parathion, methyl	2273947	0.689	0.565	ND	1.12	30.0 - 130	66.9	54.9	ug/L	19.8	30.0



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
1092226

Printed 03/06/2024

Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1020	2000	ug/L	51.0	0.100 - 106	126024811
Tributylphosphate		CCV	1250	2000	ug/L	62.5	0.100 - 106	126024818
Tributylphosphate		CCV	1130	2000	ug/L	56.5	0.100 - 106	126024823
Triphenylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 172	126024811
Triphenylphosphate		CCV	1130	2000	ug/L	56.5	0.100 - 172	126024818
Triphenylphosphate		CCV	1150	2000	ug/L	57.5	0.100 - 172	126024823
Tributylphosphate	1104939	Blank	714	2000	ug/L	35.7	0.100 - 106	126024812
Tributylphosphate	1104939	LCS	744	2000	ug/L	37.2	0.100 - 106	126024813
Tributylphosphate	1104939	LCS Dup	849	2000	ug/L	42.4	0.100 - 106	126024814
Triphenylphosphate	1104939	Blank	606	2000	ug/L	30.3	0.100 - 172	126024812
Triphenylphosphate	1104939	LCS	621	2000	ug/L	31.0	0.100 - 172	126024813
Triphenylphosphate	1104939	LCS Dup	676	2000	ug/L	33.8	0.100 - 172	126024814
Tributylphosphate	2273913	Unknown	0.381	1.92	ug/L	19.8	0.100 - 106	126024820
Triphenylphosphate	2273913	Unknown	0.425	1.92	ug/L	22.1	0.100 - 172	126024820
Tributylphosphate	2273947	MS	0.934	2.07	ug/L	45.1	0.100 - 106	126024816
Tributylphosphate	2273947	MSD	0.747	2.23	ug/L	33.5	0.100 - 106	126024817
Triphenylphosphate	2273947	MS	0.715	2.07	ug/L	34.5	0.100 - 172	126024816
Triphenylphosphate	2273947	MSD	0.633	2.23	ug/L	28.4	0.100 - 172	126024817

Analytical Set

1106063

EPA 632

Blank						File
Parameter	PrepSet	Reading	MDL	MQL	Units	
Carbaryl (Sevin)	1104937	ND	66.1	2500	ug/L	126026911
Danitrol	1104937	ND	66.1	2500	ug/L	126026911
Diuron	1104937	272	44.4	45.0	ug/L	126026911

CCV						File
Parameter	Reading	Known	Units	Recover%	Limits%	
Carbaryl (Sevin)	1080	1000	ug/L	108	70.0 - 130	126026910
Carbaryl (Sevin)	1100	1000	ug/L	110	70.0 - 130	126026914
Carbaryl (Sevin)	1210	1000	ug/L	121	70.0 - 130	126026916
Carbaryl (Sevin)	1080	1000	ug/L	108	70.0 - 130	126026924
Carbaryl (Sevin)	1070	1000	ug/L	107	70.0 - 130	126026929
Danitrol	919	1000	ug/L	91.9	70.0 - 130	126026910
Danitrol	920	1000	ug/L	92.0	70.0 - 130	126026914
Danitrol	948	1000	ug/L	94.8	70.0 - 130	126026916
Danitrol	857	1000	ug/L	85.7	70.0 - 130	126026924
Danitrol	871	1000	ug/L	87.1	70.0 - 130	126026929
Diuron	1140	1000	ug/L	114	70.0 - 130	126026910
Diuron	1070	1000	ug/L	107	70.0 - 130	126026914
Diuron	1250	1000	ug/L	125	70.0 - 130	126026916
Diuron	1070	1000	ug/L	107	70.0 - 130	126026924
Diuron	1070	1000	ug/L	107	70.0 - 130	126026929



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City of McAllen Waste Water
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P.O. Box 220
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McAllen, TX 78503

Project

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LCS Dup

Parameter	PrepSet	LCS	LCS/D	Known	Limits%	LCS%	LCS/D%	Units	RPD	Limit%
Carbaryl (Sevin)	1104937	1020	794	1000	17.1 - 131	102	79.4	ug/L	24.9	30.0
Danitrol	1104937	2280	2040	1000	0.100 - 334	228	204	ug/L	11.1	30.0
Diuron	1104937	96.0	183	1000	0.100 - 138	9.60	18.3	ug/L	62.4 *	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Carbaryl (Sevin)	2273946	1.07	0.734	ND	1000	0.100 - 215	0.107	0.0734 *	ug/L	37.3 *	30.0
Diuron	2273946	0.925	0.133	ND	1000	0.100 - 148	0.0925 *	0.0133 *	ug/L	150 *	50.0

EPA 615

Analytical Set

1106348

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2,4 Dichlorophenoxyacetic acid	1105146	ND	0.159	0.500	ug/L	126037630
2,4,5-TP (Silvex)	1105146	ND	0.0893	0.300	ug/L	126037630

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
2,4 Dichlorophenoxyacetic acid	121	150	ug/L	80.7	80.0 - 115	126037629
2,4 Dichlorophenoxyacetic acid	123	150	ug/L	81.9	80.0 - 115	126037635
2,4 Dichlorophenoxyacetic acid	99.5	150	ug/L	66.3	80.0 - 115 *	126037637
2,4,5-TP (Silvex)	128	150	ug/L	85.4	80.0 - 115	126037629
2,4,5-TP (Silvex)	126	150	ug/L	83.7	80.0 - 115	126037635
2,4,5-TP (Silvex)	118	150	ug/L	78.8	80.0 - 115 *	126037637

LCS Dup

Parameter	PrepSet	LCS	LCS/D	Known	Limits%	LCS%	LCS/D%	Units	RPD	Limit%
2,4 Dichlorophenoxyacetic acid	1105146	0.887	0.779	1.00	0.100 - 319	88.7	77.9	ug/L	13.0	30.0
2,4,5-TP (Silvex)	1105146	0.805	0.830	1.00	0.100 - 244	80.5	83.0	ug/L	3.06	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4-Dichlorophenylacetic Acid		CCV	141	200	ug/L	70.5	0.100 - 313	126037629
2,4-Dichlorophenylacetic Acid		CCV	119	200	ug/L	59.5	0.100 - 313	126037635
2,4-Dichlorophenylacetic Acid		CCV	106	200	ug/L	53.0	0.100 - 313	126037637
2,4-Dichlorophenylacetic Acid	1105146	Blank	10.9	200	ug/L	5.45	0.100 - 313	126037630
2,4-Dichlorophenylacetic Acid	1105146	LCS	118	200	ug/L	59.0	0.100 - 313	126037631
2,4-Dichlorophenylacetic Acid	1105146	LCS Dup	115	200	ug/L	57.5	0.100 - 313	126037632
2,4-Dichlorophenylacetic Acid	2273913	Unknown	0.633	1.92	ug/L	33.0	0.100 - 313	126037634

EPA 617

Analytical Set

1106431

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Kelthane (Dicofol)	1104938	ND	3.52	5.00	ug/L	126038628
Methoxychlor	1104938	ND	0.897	1.00	ug/L	126038628
Mirex	1104938	ND	0.905	1.00	ug/L	126038628

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McAllen, TX 78503-

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1092226

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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Kelthane (Dicofol)	101	100	ug/L	101	70.0 - 130	126038720
Kelthane (Dicofol)	76.4	100	ug/L	76.4	70.0 - 130	126038636
Methoxychlor	52.5	50.0	ug/L	105	70.0 - 130	126038720
Methoxychlor	52.1	50.0	ug/L	104	70.0 - 130	126038636
Mirex	44.0	50.0	ug/L	88.1	70.0 - 130	126038720
Mirex	45.9	50.0	ug/L	91.9	70.0 - 130	126038636

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Kelthane (Dicofol)	1104938	101	55.9	100	0.100 - 137	101	55.9	ug/L	57.5 *	30.0
Methoxychlor	1104938	68.9	58.2	100	21.5 - 151	68.9	58.2	ug/L	16.8	30.0
Mirex	1104938	55.8	57.4	100	11.6 - 140	55.8	57.4	ug/L	2.83	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	621878	CCV	46.3	100	ug/L	46.3	10.0 - 150	126038720
Decachlorobiphenyl	621878	CCV	41.4	100	ug/L	41.4	10.0 - 150	126038636
Tetrachloro-m-Xylene (Surr)	621878	CCV	44.1	100	ug/L	44.1	10.0 - 150	126038720
Tetrachloro-m-Xylene (Surr)	621878	CCV	43.3	100	ug/L	43.3	10.0 - 150	126038636
Decachlorobiphenyl	1104938	Blank	49.1	100	ug/L	49.1	10.0 - 150	126038628
Decachlorobiphenyl	1104938	LCS	57.4	100	ug/L	57.4	10.0 - 150	126038629
Decachlorobiphenyl	1104938	LCS Dup	24.6	100	ug/L	24.6	10.0 - 150	126038630
Tetrachloro-m-Xylene (Surr)	1104938	Blank	50.0	100	ug/L	50.0	10.0 - 150	126038628
Tetrachloro-m-Xylene (Surr)	1104938	LCS	43.0	100	ug/L	43.0	10.0 - 150	126038629
Tetrachloro-m-Xylene (Surr)	1104938	LCS Dup	23.9	100	ug/L	23.9	10.0 - 150	126038630
Decachlorobiphenyl	2273913	Unknown	0.0443	0.0958	ug/L	46.2	10.0 - 150	126038633
Tetrachloro-m-Xylene (Surr)	2273913	Unknown	0.0243	0.0958	ug/L	25.4	10.0 - 150	126038633

Analytical Set 1106435

EPA 617

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Kelthane (Dicofol)	2273944	1.23	0.806	ND	1.03	70.0 - 130	123	80.8	ug/L	41.7 *	30.0
Methoxychlor	2273944	1.26	0.701	ND	1.03	70.0 - 130	126	70.3	ug/L	57.0 *	30.0
Mirex	2273944	1.07	0.491	ND	1.03	70.0 - 130	107	49.2 *	ug/L	74.2 *	30.0

Analytical Set 1106682

ASTM D7065-11

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	File
Nonylphenol	1105610	ND	5.00	30.0	ug/L	126043734

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Nonylphenol	153000	150000	ug/L	102	70.0 - 130	126043733
Nonylphenol	136000	150000	ug/L	90.5	70.0 - 130	126043757



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R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

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1092226

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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	623252	CCV	206500	206500	103300	309800	126043733	623252
Acenaphthene-d10-ISTD	623252	CCV	171500	206500	103300	309800	126043757	623252
Phenanthrene-d10-ISTD	623252	CCV	273800	273800	136900	410700	126043733	623252
Phenanthrene-d10-ISTD	623252	CCV	249000	273800	136900	410700	126043757	623252
Acenaphthene-d10-ISTD	1105610	Blank	123600	206500	103300	309800	126043734	1105610
Acenaphthene-d10-ISTD	1105610	LCS	147300	206500	103300	309800	126043735	1105610
Acenaphthene-d10-ISTD	1105610	LCS Dup	121100	206500	103300	309800	126043736	1105610
Phenanthrene-d10-ISTD	1105610	Blank	188800	273800	136900	410700	126043734	1105610
Phenanthrene-d10-ISTD	1105610	LCS	208600	273800	136900	410700	126043735	1105610
Phenanthrene-d10-ISTD	1105610	LCS Dup	156000	273800	136900	410700	126043736	1105610
Acenaphthene-d10-ISTD	2273913	Unknown	143900	206500	103300	309800	126043745	1105610
Phenanthrene-d10-ISTD	2273913	Unknown	207300	273800	136900	410700	126043745	1105610

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
Acenaphthene-d10-ISTD	623252	CCV	6.177	6.177	6.117	6.237	126043733	623252
Acenaphthene-d10-ISTD	623252	CCV	6.182	6.177	6.117	6.237	126043757	623252
Phenanthrene-d10-ISTD	623252	CCV	7.368	7.368	7.308	7.428	126043733	623252
Phenanthrene-d10-ISTD	623252	CCV	7.374	7.368	7.308	7.428	126043757	623252
Acenaphthene-d10-ISTD	1105610	Blank	6.177	6.177	6.117	6.237	126043734	1105610
Acenaphthene-d10-ISTD	1105610	LCS	6.177	6.177	6.117	6.237	126043735	1105610
Acenaphthene-d10-ISTD	1105610	LCS Dup	6.177	6.177	6.117	6.237	126043736	1105610
Phenanthrene-d10-ISTD	1105610	Blank	7.362	7.368	7.308	7.428	126043734	1105610
Phenanthrene-d10-ISTD	1105610	LCS	7.368	7.368	7.308	7.428	126043735	1105610
Phenanthrene-d10-ISTD	1105610	LCS Dup	7.362	7.368	7.308	7.428	126043736	1105610
Acenaphthene-d10-ISTD	2273913	Unknown	6.182	6.177	6.117	6.237	126043745	1105610
Phenanthrene-d10-ISTD	2273913	Unknown	7.368	7.368	7.308	7.428	126043745	1105610

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Nonylphenol	1105610	154	147	150	56.0 - 112	103	98.0	ug/L	4.98	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
4-Nonylphenol-SURR	623252	CCV	24900	25000	ug/L	99.6	50.0 - 130	126043733
4-Nonylphenol-SURR	623252	CCV	22600	25000	ug/L	90.4	50.0 - 130	126043757
4-Nonylphenol-SURR	1105610	Blank	24400	25000	ug/L	97.6	50.0 - 130	126043734
4-Nonylphenol-SURR	1105610	LCS	22200	25000	ug/L	88.8	50.0 - 130	126043735
4-Nonylphenol-SURR	1105610	LCS Dup	24200	25000	ug/L	96.8	50.0 - 130	126043736
4-Nonylphenol-SURR	2273913	Unknown	19.3	26.5	ug/L	72.8	50.0 - 130	126043745

Analytical Set

1107651

EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	File
1,2,4,5-Tetrachlorobenzene	1105392	ND	0.517	1.00	ug/L	126062612
2,4,5-Trichlorophenol	1105392	ND	0.734	1.00	ug/L	126062612



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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
2-Methylphenol (o-Cresol)	1105392	ND	5.13	5.20	ug/L	126062612
3&4-Methylphenol (m&p-Cresol)	1105392	ND	6.15	6.20	ug/L	126062612
n-Nitrosodiethylamine	1105392	ND	0.282	1.00	ug/L	126062612
n-Nitroso-di-n-butylamine	1105392	ND	0.403	1.00	ug/L	126062612
Pentachlorobenzene	1105392	ND	0.420	1.00	ug/L	126062612
Pyridine	1105392	ND	5.33	5.40	ug/L	126062612

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4,5-Tetrachlorobenzene	51600	50000	ug/L	103	60.0 - 140	126062611
2,4,5-Trichlorophenol	49900	50000	ug/L	99.8	69.0 - 130	126062611
2-Methylphenol (o-Cresol)	50400	50000	ug/L	101	60.0 - 140	126062611
3&4-Methylphenol (m&p-Cresol)	48100	50000	ug/L	96.2	60.0 - 140	126062611
n-Nitrosodiethylamine	28100	50000	ug/L	56.2	60.0 - 140 *	126062611
n-Nitroso-di-n-butylamine	56700	50000	ug/L	113	60.0 - 140	126062611
Pentachlorobenzene	53300	50000	ug/L	107	60.0 - 140	126062611
Pyridine	52400	50000	ug/L	105	60.0 - 140	126062611

DFTPP

Parameter	RefMass	Reading	%	Limits%	File
DFTPP Mass 127	623138	198	40192	54.8	40.0 - 60.0
DFTPP Mass 197	623138	198	22	0.0	0 - 1.00
DFTPP Mass 198	623138	198	73375	100.0	100 - 100
DFTPP Mass 199	623138	198	5037	6.9	5.00 - 9.00
DFTPP Mass 275	623138	198	21422	29.2	10.0 - 30.0
DFTPP Mass 365	623138	198	4673	6.4	1.00 - 100
DFTPP Mass 441	623138	443	1814	16.3	0 - 100
DFTPP Mass 442	623138	198	55540	75.7	40.0 - 100
DFTPP Mass 443	623138	442	11121	20.0	17.0 - 23.0
DFTPP Mass 51	623138	198	29715	40.5	30.0 - 60.0
DFTPP Mass 68	623138	69.0	27	0.1	0 - 2.00
DFTPP Mass 69	623138	198	41065	56.0	0 - 100
DFTPP Mass 70	623138	69.0	134	0.3	0 - 2.00

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4,5-Tetrachlorobenzene	1105392	16.8	17.2	25.0	27.5 - 85.5	67.2	68.8	ug/L	2.35	50.0
2,4,5-Trichlorophenol	1105392	18.7	17.8	25.0	51.3 - 109	74.8	71.2	ug/L	4.93	50.0
2-Methylphenol (o-Cresol)	1105392	14.2	13.0	25.0	38.9 - 76.1	56.8	52.0	ug/L	8.82	50.0
3&4-Methylphenol (m&p-Cresol)	1105392	12.6	11.2	25.0	33.0 - 70.4	50.4	44.8	ug/L	11.8	50.0
n-Nitrosodiethylamine	1105392	9.43	9.53	25.0	18.0 - 100	37.7	38.1	ug/L	1.06	50.0
n-Nitroso-di-n-butylamine	1105392	22.0	22.0	25.0	48.4 - 98.5	88.0	88.0	ug/L	0	50.0
Pentachlorobenzene	1105392	19.5	19.4	25.0	39.3 - 93.7	78.0	77.6	ug/L	0.514	50.0
Pyridine	1105392	10.0	10.2	25.0	11.2 - 50.6	40.0	40.8	ug/L	1.98	50.0



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	Surrogate							
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	623306	CCV	50100	100000	ug/L	50.1	10.0 - 150	126062611
2-Fluorophenol-SURR	623306	CCV	52200	100000	ug/L	52.2	10.0 - 150	126062611
4-Terphenyl-d14-SURR	623306	CCV	52000	50000	ug/L	104	30.0 - 150	126062611
Nitrobenzene-d5-SURR	623306	CCV	50600	50000	ug/L	101	30.0 - 150	126062611
Phenol-d6-SURR	623306	CCV	50900	100000	ug/L	50.9	10.0 - 150	126062611
2,4,6-Tribromophenol	1105392	Blank	48.3	100	ug/L	48.3	10.0 - 150	126062612
2,4,6-Tribromophenol	1105392	LCS	67.9	100	ug/L	67.9	10.0 - 150	126062613
2,4,6-Tribromophenol	1105392	LCS Dup	62.1	100	ug/L	62.1	10.0 - 150	126062614
2-Fluorophenol-SURR	1105392	Blank	32400	100000	ug/L	32.4	10.0 - 150	126062612
2-Fluorophenol-SURR	1105392	LCS	37600	100000	ug/L	37.6	10.0 - 150	126062613
2-Fluorophenol-SURR	1105392	LCS Dup	40600	100000	ug/L	40.6	10.0 - 150	126062614
4-Terphenyl-d14-SURR	1105392	Blank	36700	50000	ug/L	73.4	30.0 - 150	126062612
4-Terphenyl-d14-SURR	1105392	LCS	42500	50000	ug/L	85.0	30.0 - 150	126062613
4-Terphenyl-d14-SURR	1105392	LCS Dup	40800	50000	ug/L	81.6	30.0 - 150	126062614
Nitrobenzene-d5-SURR	1105392	Blank	33200	50000	ug/L	66.4	30.0 - 150	126062612
Nitrobenzene-d5-SURR	1105392	LCS	38600	50000	ug/L	77.2	30.0 - 150	126062613
Nitrobenzene-d5-SURR	1105392	LCS Dup	37700	50000	ug/L	75.4	30.0 - 150	126062614
Phenol-d6-SURR	1105392	Blank	21500	100000	ug/L	21.5	10.0 - 150	126062612
Phenol-d6-SURR	1105392	LCS	25600	100000	ug/L	25.6	10.0 - 150	126062613
Phenol-d6-SURR	1105392	LCS Dup	25700	100000	ug/L	25.7	10.0 - 150	126062614
2,4,6-Tribromophenol	2273913	Unknown	55.3	96.2	ug/L	57.5	10.0 - 150	126062619
2-Fluorophenol-SURR	2273913	Unknown	31.0	96.2	ug/L	32.2	10.0 - 150	126062619
4-Terphenyl-d14-SURR	2273913	Unknown	34.8	48.1	ug/L	72.3	30.0 - 150	126062619
Nitrobenzene-d5-SURR	2273913	Unknown	31.0	48.1	ug/L	64.4	30.0 - 150	126062619
Phenol-d6-SURR	2273913	Unknown	19.6	96.2	ug/L	20.4	10.0 - 150	126062619

* Out RPD is Relative Percent Difference: $\text{abs}(r_1 - r_2) / \text{mean}(r_1, r_2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCB - Continuing Calibration Blank; CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); 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; 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 standard 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 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.); DFTPP - GC/MS Tuning Compound



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McAllen, Texas 78505
Phone (956) 681-1764
Fax: (956) 681-1754

Wastewater Laboratory

CHAIN OF CUSTODY

2273911
913

Sample & Identification No.	Sample		Sampling Location:		Date Collected:		Samplers:	
	Date/Time	Sample Comp. / Grab	# of sample containers	EFFLUENT	Sample Matrix	Preservative	Analysis	Comments
24-036 EFFLUENT	Start: 2/15/24 @ 8:45	X	(3) Glass Vials 40 ml Lot # 221304 V13		Liquid	Na2SO3	Table 307: Volatiles EPA Method 624.1 THM/MEK/EDB	Analyze according to 40CFR 136 Methods Use the more sensitive meth.
24-037 EFFLUENT	Start: 2/14/24 @ 08:00 End: 2/15/24 @ 06:00	X	(6) Amber Glass Bottles Lot # A322901 D13 2) 1lt. Glass (Preserved) Lot # J228604 AB		Liquid	ICE	From Chapter 307: Semi-Volatiles (625.1)	Analyze according to 40 CFR 136 methods: 625.1 Semi-Volatiles, EPA 604.1, 615.617, 625.1, 632.1657 ASTM D7085-11
24-038 EFFLUENT	Start: 2/14/24 @ 08:00 End: 2/15/24 @ 06:00	X	(1) 500 ml plastic Lot # L323702 B13		Liquid	ICE	From Chapter 307: Fluoride (MDL: 500 ug/L) From Chapter 307: Nitrate- Nitrogen (MDL: 1000ug/L)	Analyze according to 40 CFR 136 methods.
24-039 EFFLUENT	Start: 2/14/24 @ 8:00 End: 2/15/24 @ 6:00	X	(1) 250 ml plastic Lot # M316004 B13		Liquid	HNO3	From Chapter 307: Metals Al, Ba, Cr.	Analyze according to 40 CFR 136 methods EPA 200.9, 200.2 methods
24-036, 037, 038, 039	Relinquished by: [Signature] Date: 2/15/24 Time: 14:15 pm	Michael Lopez		Date: 2-15-24 Time: 7:45	Received by: Jare D.		Date: 2-15-24 Time: 7:45	
24-036, 037, 038, 039	Relinquished by: [Signature] Date: 2/15/24 Time: 14:15 pm	Received by: ANA LAB CARRIER Frank Gomez III - SPL, Inc.	Date: 2-15-24 Time: 14:15	Received by: ANA LAB CARRIER Frank Gomez III - SPL, Inc.		Date: 2-15-24 Time: 14:15	Temperature Custody Seal broken: yes	

See Attached for Tracking # and Temp

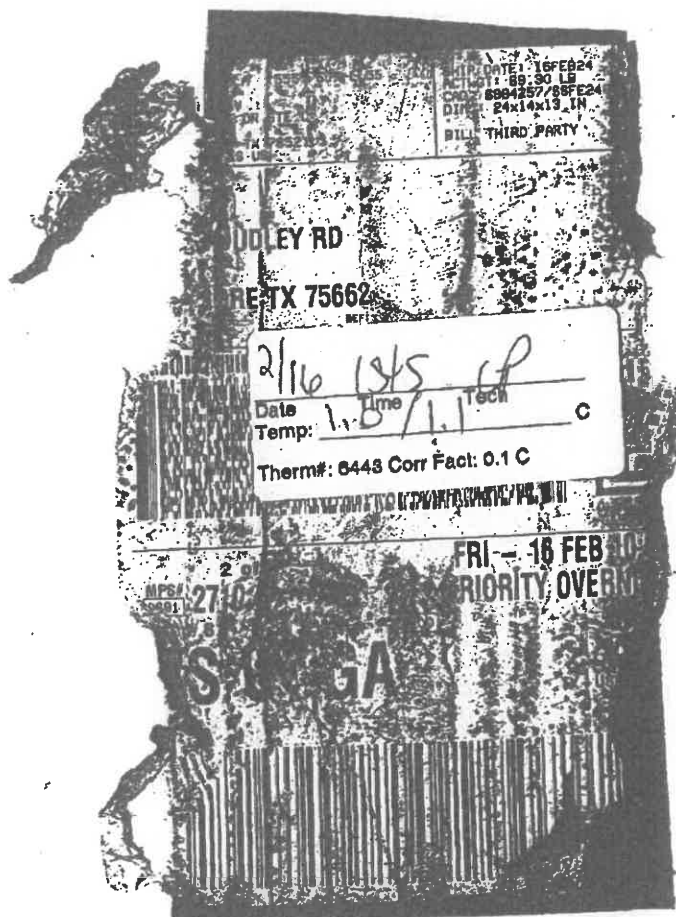
Project No. P - 24- 016

MPUA- 108

Remarks:

Permit Requirement: Non-Priority Pollutants
Please use the MALL's and approved methods. Please meet MDL'S specified on contract.
Note: See the attached list of parameters that need to be analyzed

1092226 CoC Print Group 001 of 001



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Page 1 of 1

Project
1092218

MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

Printed 03/07/2024
15:55

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P-24-008

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1092218_r03_03_ProjectResults	SPL Kilgore Project P:1092218 C:MCA8 Project Results t:304	7
1092218_r10_05_ProjectQC	SPL Kilgore Project P:1092218 C:MCA8 Project Quality Control Groups	16
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Email: Kilgore.projectmanager@spl-inc.com



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SAMPLE CROSS REFERENCE

Project
1092218

Printed 3/7/2024 Page 1 of 1

City of McAllen Waste Water
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 McAllen, TX 78503

Sample	Sample ID	Taken	Time	Received
2273899	EFFLUENT	02/15/2024	08:15:00	02/16/2024

Bottle 01 Na2S2O3 (0.008%) Glass 40 mL vial w/Teflon lined lid (zero headspace)
 Bottle 02 Na2S2O3 (0.008%) 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 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid
 Bottle 05 Glass Vial 40 mL (Zero Headspace) w/Teflon lined lid

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 624.1	05	1105116	02/19/2024	1105116	02/19/2024
EPA 624.1	01	1105177	02/19/2024	1105177	02/19/2024

Sample	Sample ID	Taken	Time	Received
2273901	EFFLUENT	02/14/2024	06:00:00	02/16/2024

Bottle 01 Amber 32 Oz
 Bottle 02 Amber 32 Oz
 Bottle 03 Amber 32 Oz
 Bottle 04 Amber 32 Oz
 Bottle 05 Prepared Bottle: GCXL/GCXS 2 mL Autosampler Vial (Batch 1104938) Volume: 10.00000 mL <== Derived from 02 (1031 ml)
 Bottle 06 Prepared Bottle:PCBL 2 mL Autosampler Vial (Batch 1104940) Volume: 10.00000 mL <== Derived from 02 (1031 ml)
 Bottle 07 Prepared Bottle: 2 mL Autosampler Vial (Batch 1105392) Volume: 1.00000 mL <== Derived from 01 (1037 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 608.3	05	1104938	02/19/2024	1106432	02/27/2024
EPA 608.3	06	1104940	02/19/2024	1106707	02/27/2024
EPA 625.1	07	1105392	02/21/2024	1107977	03/06/2024

Email: Kilgore.projectmanager@spl-inc.com



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Project

1092218

Printed: 03/07/2024

P-24-008

RESULTS

Sample Results

2273899 EFFLUENT

Received: 02/16/2024

Non-Potable Water

Collected by: Client
Taken: 02/15/2024

City of McAllen Was
08:15:00

PO:

EPA 624.1		Prepared:	1105116	02/19/2024	18:11:00	Analyzed	1105116	02/19/2024	18:11:00	PM1
Parameter	Results	Units	RL	Flags	CAS	Bottle				
NELAC Acrolein	<4.00	ug/L	4.00	H	107-02-8	05				
NELAC Acrylonitrile	<2.00	ug/L	2.00	H	107-13-1	05				
EPA 624.1		Prepared:	1105177	02/19/2024	19:30:00	Analyzed	1105177	02/19/2024	19:30:00	PM1
Parameter	Results	Units	RL	Flags	CAS	Bottle				
NELAC 1,1,1,2-Tetrachloroethane	<1.00	ug/L	1.00		630-20-6	01				
NELAC 1,1,1-Trichloroethane	<1.00	ug/L	1.00		71-55-6	01				
NELAC 1,1,2,2-Tetrachloroethane	<1.00	ug/L	1.00		79-34-5	01				
NELAC 1,1,2-Trichloroethane	<1.00	ug/L	1.00		79-00-5	01				
NELAC 1,1-Dichloroethane	<1.00	ug/L	1.00		75-34-3	01				
NELAC 1,1-Dichloroethylene	<1.00	ug/L	1.00		75-35-4	01				
NELAC 1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	01				
NELAC 1,2-Dichloropropane	<1.00	ug/L	1.00		78-87-5	01				
NELAC 2-Chloroethylvinyl ether	<1.00	ug/L	1.00		110-75-8	01				
NELAC Benzene	<1.00	ug/L	1.00		71-43-2	01				
NELAC Bromodichloromethane	<1.00	ug/L	1.00		75-27-4	01				
NELAC Bromoform	<1.00	ug/L	1.00		75-25-2	01				
NELAC Bromomethane (Methyl Bromi	<1.00	ug/L	1.00		74-83-9	01				
NELAC Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	01				
NELAC Chlorobenzene	<1.00	ug/L	1.00		108-90-7	01				
NELAC Chloroethane	<1.12	ug/L	1.12		75-00-3	01				
NELAC Chloroform	<1.00	ug/L	1.00		67-66-3	01				
NELAC Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	01				
NELAC cis-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-59-2	01				
NELAC cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	01				
NELAC Dibromochloromethane	<1.00	ug/L	1.00		124-48-1	01				
NELAC Dichlorodifluoromethane	<1.00	ug/L	1.00		75-71-8	01				
NELAC Dichloromethane	<1.02	ug/L	1.02		75-09-2	01				
NELAC Ethylbenzene	<1.00	ug/L	1.00		100-41-4	01				
NELAC m- and p-Xylene	<2.00	ug/L	2.00		ARC-mpXyl	01				



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Project

1092218

Printed: 03/07/2024

2273899 EFFLUENT

Received: 02/16/2024

Non-Potable Water

Collected by: Client

City of McAllen Was

PO:

Taken: 02/15/2024

08:15:00

EPA 624.1

Prepared: 1105177 02/19/2024 19:30:00 Analyzed 1105177 02/19/2024 19:30:00 PMJ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	01
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	01
NELAC	o-Xylene	<1.00	ug/L	1.00		95-47-6	01
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	01
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	01
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	01
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	01
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	01
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	01
NELAC	Trichlorofluoromethane	<1.00	ug/L	1.00		75-69-4	01
NELAC	Vinyl chloride	<1.00	ug/L	1.00		75-01-4	01

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Non-Potable Water

Collected by: Client

City of McAllen Was

PO:

Composite Stop 06:00 2/14/24

Taken: 02/14/2024

06:00:00

EPA 608.3

Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1106432 02/27/2024 06:29:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDD	<0.0097	ug/L	0.0097		72-54-8	05
NELAC	4,4-DDE	<0.0097	ug/L	0.0097		72-55-9	05
NELAC	4,4-DDT	<0.0097	ug/L	0.0097		50-29-3	05
NELAC	Aldrin	<0.0097	ug/L	0.0097		309-00-2	05
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0097	ug/L	0.0097		319-84-6	05
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0097	ug/L	0.0097		319-85-7	05
NELAC	Chlordane	<0.194	ug/L	0.194		57-74-9	05
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0097	ug/L	0.0097		319-86-8	05
NELAC	Dieldrin	<0.0097	ug/L	0.0097		60-57-1	05
NELAC	Endosulfan I (alpha)	<0.0097	ug/L	0.0097		959-98-8	05
NELAC	Endosulfan II (beta)	<0.0097	ug/L	0.0097		33213-65-9	05
NELAC	Endosulfan sulfate	<0.0097	ug/L	0.0097		1031-07-8	05
NELAC	Endrin	<0.0097	ug/L	0.0097		72-20-8	05
NELAC	Endrin aldehyde	<0.0097	ug/L	0.0097		7421-93-4	05



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Project

1092218

Printed: 03/07/2024

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Non-Potable Water
Composite Stop 06:00 2/14/24
Collected by: Client
Taken: 02/14/2024

City of McAllen Was
06:00:00

PO:

EPA 608.3 Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1106432 02/27/2024 06:29:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Gamma-BHC(Lindane)	<0.0097	ug/L	0.0097		58-89-9	05
NELAC	Heptachlor	<0.0097	ug/L	0.0097		76-44-8	05
NELAC	Heptachlor epoxide	<0.0097	ug/L	0.0097		1024-57-3	05
NELAC	Methoxychlor	<0.0097	ug/L	0.0097		72-43-5	05
NELAC	Toxaphene	<0.194	ug/L	0.194		8001-35-2	05

EPA 608.3 Prepared: 1104940 02/20/2024 09:30:00 Analyzed 1106707 02/27/2024 06:29:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.196	ug/L	0.196		12674-11-2	06
NELAC	PCB-1221	<0.194	ug/L	0.194		11104-28-2	06
NELAC	PCB-1232	<0.194	ug/L	0.194		11141-16-5	06
NELAC	PCB-1242	<0.194	ug/L	0.194		53469-21-9	06
NELAC	PCB-1248	<0.194	ug/L	0.194		12672-29-6	06
NELAC	PCB-1254	<0.194	ug/L	0.194		11097-69-1	06
NELAC	PCB-1260	<0.194	ug/L	0.194	S	11096-82-5	06
NELAC	PCB-1262	<0.194	ug/L	0.194		37324-23-5	06
NELAC	PCB-1268	<0.194	ug/L	0.194		11100-14-4	06

EPA 625.1 Prepared: 1105392 02/21/2024 11:15:00 Analyzed 1107977 03/06/2024 01:20:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4-Trichlorobenzene	<0.964	ug/L	0.964		120-82-1	07
NELAC	1,2-Dichlorobenzene	<0.964	ug/L	0.964		95-50-1	07
NELAC	1,2-DPH (as azobenzene)	<0.964	ug/L	0.964		122-66-7	07
NELAC	1,3-Dichlorobenzene	<0.964	ug/L	0.964		541-73-1	07
NELAC	1,4-Dichlorobenzene	<0.964	ug/L	0.964		106-46-7	07
NELAC	2,3,7,8-TCDD Scan	<0.964	ug/L	0.964			07
NELAC	2,4,6-Trichlorophenol	<0.964	ug/L	0.964		88-06-2	07
NELAC	2,4-Dichlorophenol	<0.964	ug/L	0.964		120-83-2	07
NELAC	2,4-Dimethylphenol	<2.31	ug/L	2.31	S	105-67-9	07
NELAC	2,4-Dinitrophenol	<8.68	ug/L	8.68		51-28-5	07
NELAC	2,4-Dinitrotoluene	<3.38	ug/L	3.38		121-14-2	07
NELAC	2,6-Dinitrotoluene	<0.964	ug/L	0.964		606-20-2	07
NELAC	2-Chloronaphthalene	<0.964	ug/L	0.964		91-58-7	07
NELAC	2-Chlorophenol	<0.964	ug/L	0.964		95-57-8	07



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Project

1092218

Printed: 03/07/2024

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Non-Potable Water

Collected by: Client

City of McAllen Was

PO:

Composite Stop 06:00 2/14/24

Taken: 02/14/2024

06:00:00

EPA 625.1

Prepared: 1105392 02/21/2024

11:15:00

Analyzed 1107977

03/06/2024

01:20:00 DWL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC 2-Nitrophenol	<0.964	ug/L	0.964		88-75-5	07
NELAC 3,3'-Dichlorobenzidine	<4.82	ug/L	4.82		91-94-1	07
NELAC 4,6-Dinitro-2-methylphenol	<7.71	ug/L	7.71		534-52-1	07
NELAC 4-Bromophenyl phenyl ether	<0.964	ug/L	0.964		101-55-3	07
NELAC 4-Chlorophenyl phenyl ether	<0.964	ug/L	0.964		7005-72-3	07
NELAC 4-Nitrophenol	<0.964	ug/L	0.964		100-02-7	07
NELAC Acenaphthene	<0.964	ug/L	0.964		83-32-9	07
NELAC Acenaphthylene	<0.964	ug/L	0.964		208-96-8	07
NELAC Anthracene	<0.964	ug/L	0.964		120-12-7	07
NELAC Benzidine	<19.3	ug/L	19.3	D	92-87-5	07
NELAC Benzo(a)anthracene	<0.964	ug/L	0.964		56-55-3	07
NELAC Benzo(a)pyrene	<0.964	ug/L	0.964		50-32-8	07
NELAC Benzo(b)fluoranthene	<0.964	ug/L	0.964		205-99-2	07
NELAC Benzo(ghi)perylene	<0.964	ug/L	0.964		191-24-2	07
NELAC Benzo(k)fluoranthene	<0.964	ug/L	0.964		207-08-9	07
NELAC Benzyl Butyl phthalate	<7.23	ug/L	7.23		85-68-7	07
NELAC Bis(2-chlorooctoxy)methane	<0.964	ug/L	0.964		111-91-1	07
NELAC Bis(2-chlorooctyl)ether	<0.964	ug/L	0.964		111-44-4	07
NELAC Bis(2-chloroisopropyl)ether	<0.964	ug/L	0.964		108-60-1	07
NELAC Bis(2-ethylhexyl)phthalate	<7.23	ug/L	7.23		117-81-7	07
NELAC Chrysene (Benzo(a)phenanthrene)	<0.964	ug/L	0.964		218-01-9	07
NELAC Dibenz(a,h)anthracene	<0.964	ug/L	0.964		53-70-3	07
NELAC Diethyl phthalate	<5.50	ug/L	5.50		84-66-2	07
NELAC Dimethyl phthalate	<4.63	ug/L	4.63		131-11-3	07
NELAC Di-n-butylphthalate	<7.23	ug/L	7.23		84-74-2	07
NELAC Di-n-octylphthalate	<0.964	ug/L	0.964		117-84-0	07
NELAC Fluoranthene(Benzo(j,k)fluorene)	<0.964	ug/L	0.964		206-44-0	07
NELAC Fluorene	<0.964	ug/L	0.964		86-73-7	07
NELAC Hexachlorobenzene	<0.964	ug/L	0.964		118-74-1	07
NELAC Hexachlorobutadiene	<0.964	ug/L	0.964		87-68-3	07
NELAC Hexachlorocyclopentadiene	<8.68	ug/L	8.68		77-47-4	07
NELAC Hexachloroethane	<0.964	ug/L	0.964		67-72-1	07
NELAC Indeno(1,2,3-cd)pyrene	<0.964	ug/L	0.964		193-39-5	07
NELAC Isophorone	<0.964	ug/L	0.964		78-59-1	07
NELAC Naphthalene	<0.964	ug/L	0.964		91-20-3	07
NELAC Nitrobenzene	<0.964	ug/L	0.964		98-95-3	07



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2600 Dudley Rd. Kilgore, Texas 75662
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MCA8-R

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Project

1092218

Printed: 03/07/2024

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Non-Potable Water

Collected by: Client

City of McAllen Was

PO:

Composite Stop 06:00 2/14/24

Taken: 02/14/2024

06:00:00

EPA 625.1

Prepared: 1105392 02/21/2024 11:15:00 Analyzed 1107977 03/06/2024 01:20:00 DWL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC N-Nitrosodimethylamine	<6.75	ug/L	6.75		62-75-9	07
NELAC N-Nitrosodi-n-propylamine	<0.964	ug/L	0.964		621-64-7	07
NELAC N-Nitrosodiphenylamine (as DPA	<0.964	ug/L	0.964		86-30-6	07
NELAC p-Chloro-m-Cresol (4-Chloro-3-me	<2.31	ug/L	2.31		59-50-7	07
NELAC Pentachlorophenol	<0.964	ug/L	0.964		87-86-5	07
NELAC Phenanthrene	<0.964	ug/L	0.964		85-01-8	07
NELAC Phenol	<1.45	ug/L	1.45		108-95-2	07
NELAC Pyrene	<0.964	ug/L	0.964		129-00-0	07

Sample Preparation

2273899 EFFLUENT

Received: 02/16/2024

02/15/2024

EPA 624.1

Prepared: 1105116 02/19/2024 18:11:00 Analyzed 1105116 02/19/2024 18:11:00 PM1

NELAC Acrolein/Acrylonitrile Exp.	Entered	H	05
EPA 624.1	Prepared: 1105177 02/19/2024 19:30:00	Analyzed 1105177 02/19/2024 19:30:00	PM1

NELAC TTO VOC 40 CFR Pt 122 Table II

Entered

01

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Composite Stop 06:00 2/14/24

02/14/2024

Prepared: 02/19/2024 12:33:55 Calculated 02/19/2024 12:33:55 CAL



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Project

1092218

Printed: 03/07/2024

2273901 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Composite Stop 06:00 2/14/24 02/14/2024

Prepared: 02/19/2024 12:33:55 Calculated 02/19/2024 12:33:55 CAL

Environmental Fee (per Project)

Verified

EPA 608.3

Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1104938 02/20/2024 09:30:00 MCC

Liquid-Liquid Extr. W/Hex Ex

10/1031 ml

02

EPA 608.3

Prepared: 1104938 02/20/2024 09:30:00 Analyzed 1106432 02/27/2024 06:29:00 KAP

NELAC Pesticides by GC

Entered

05

EPA 608.3

Prepared: 1104940 02/20/2024 09:30:00 Analyzed 1104940 02/20/2024 09:30:00 MCC

PCB Liq-Liq Extr. W/Hex Exch.

10/1031 ml

02

EPA 608.3

Prepared: 1104940 02/20/2024 09:30:00 Analyzed 1106707 02/27/2024 06:29:00 KAP

NELAC Polychlorinated Biphenyls

Entered

06

EPA 625.1

Prepared: 1105392 02/21/2024 11:15:00 Analyzed 1105392 02/21/2024 11:15:00 MCC

Liquid-Liquid Extraction, BNA

1/1037 ml

01

EPA 625.1

Prepared: 1105392 02/21/2024 11:15:00 Analyzed 1107977 03/06/2024 01:20:00 DWL

NELAC TTO SVOC w/o 2378

Entered

07



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Project

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Qualifiers:

- D - Duplicate RPD was higher than expected
H - Sample started outside recommended holding time
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, MS, VP Technical Services



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EPA 624.1

Analytical Set 1105116

BFB

Parameter	Sample	RefMass	Reading	%	Limits%	File
BFB Mass 173	1105116	174	65	0.4	0 - 2.00	126004503
BFB Mass 174	1105116	95.0	16634	72.7	50.0 - 100	126004503
BFB Mass 175	1105116	174	1330	8.0	5.00 - 9.00	126004503
BFB Mass 176	1105116	174	16072	96.6	95.0 - 101	126004503
BFB Mass 177	1105116	176	1089	6.8	5.00 - 9.00	126004503
BFB Mass 50	1105116	95.0	4001	17.5	15.0 - 40.0	126004503
BFB Mass 75	1105116	95.0	10975	48.0	30.0 - 60.0	126004503
BFB Mass 95	1105116	95.0	22875	100.0	100 - 100	126004503
BFB Mass 96	1105116	95.0	1611	7.0	5.00 - 9.00	126004503

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Acrolein	1105116	ND	3.14	4.00	ug/L	126004507
Acrylonitrile	1105116	ND	1.43	2.00	ug/L	126004507

IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1105116	LCS	107500	100000	50000	150000	126004505	1105116
1,4-DichlorobenzeneD4 (ISTD)	1105116	LCS Dup	106400	100000	50000	150000	126004506	1105116
1,4-DichlorobenzeneD4 (ISTD)	1105116	Blank	95870	100000	50000	150000	126004507	1105116
ChlorobenzeneD5 (ISTD)	1105116	LCS	196500	179200	89590	268800	126004505	1105116
ChlorobenzeneD5 (ISTD)	1105116	LCS Dup	194800	179200	89590	268800	126004506	1105116
ChlorobenzeneD5 (ISTD)	1105116	Blank	190500	179200	89590	268800	126004507	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273899	Unknown	81220	100000	50000	150000	126004513	1105116
ChlorobenzeneD5 (ISTD)	2273899	Unknown	165700	179200	89590	268800	126004513	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273915	MS	91870	100000	50000	150000	126004518	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273915	MSD	89550	100000	50000	150000	126004519	1105116
ChlorobenzeneD5 (ISTD)	2273915	MS	169200	179200	89590	268800	126004518	1105116
ChlorobenzeneD5 (ISTD)	2273915	MSD	163800	179200	89590	268800	126004519	1105116

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1105116	LCS	11.10	11.10	11.04	11.16	126004505	1105116
1,4-DichlorobenzeneD4 (ISTD)	1105116	LCS Dup	11.10	11.10	11.04	11.16	126004506	1105116
1,4-DichlorobenzeneD4 (ISTD)	1105116	Blank	11.10	11.10	11.04	11.16	126004507	1105116
ChlorobenzeneD5 (ISTD)	1105116	LCS	8.733	8.733	8.673	8.793	126004505	1105116
ChlorobenzeneD5 (ISTD)	1105116	LCS Dup	8.733	8.733	8.673	8.793	126004506	1105116
ChlorobenzeneD5 (ISTD)	1105116	Blank	8.739	8.733	8.673	8.793	126004507	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273899	Unknown	11.10	11.10	11.04	11.16	126004513	1105116
ChlorobenzeneD5 (ISTD)	2273899	Unknown	8.733	8.733	8.673	8.793	126004513	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273915	MS	11.10	11.10	11.04	11.16	126004518	1105116
1,4-DichlorobenzeneD4 (ISTD)	2273915	MSD	11.10	11.10	11.04	11.16	126004519	1105116
ChlorobenzeneD5 (ISTD)	2273915	MS	8.733	8.733	8.673	8.793	126004518	1105116
ChlorobenzeneD5 (ISTD)	2273915	MSD	8.733	8.733	8.673	8.793	126004519	1105116



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Printed 03/07/2024

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS Dup</u>			<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
		<u>LCS</u>	<u>LCSD</u>	<u>Known</u>						
Acrolein	1105116	43.8	44.9	40.0	60.0 - 140	110	112	ug/L	1.80	30.0
Acrylonitrile	1105116	41.5	43.0	40.0	60.0 - 140	104	108	ug/L	3.77	30.0

<u>Parameter</u>	<u>Sample</u>	<u>MSD</u>			<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
		<u>MS</u>	<u>MSD</u>	<u>UNK</u>						
Acrolein	2273915	39.9	41.6	ND	40.0 - 160	99.8	104	ug/L	4.17	60.0
Acrylonitrile	2273915	37.4	38.5	ND	40.0 - 160	93.5	96.2	ug/L	2.90	60.0

<u>Parameter</u>	<u>Sample</u>	<u>Type</u>	<u>Reading</u>	<u>Surrogate</u>		<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
				<u>Known</u>	<u>Units</u>			
1,2-DCA-d4 (SURR)	1105116	LCS	20.3	20.0	ug/L	102	70.0 - 130	126004505
1,2-DCA-d4 (SURR)	1105116	LCS Dup	20.2	20.0	ug/L	101	70.0 - 130	126004506
1,2-DCA-d4 (SURR)	1105116	Blank	20.0	20.0	ug/L	100	70.0 - 130	126004507
Bromofluorobenzene (SURR)	1105116	LCS	20.8	20.0	ug/L	104	70.0 - 130	126004505
Bromofluorobenzene (SURR)	1105116	LCS Dup	21.0	20.0	ug/L	105	70.0 - 130	126004506
Bromofluorobenzene (SURR)	1105116	Blank	20.6	20.0	ug/L	103	70.0 - 130	126004507
Dibromofluoromethane (SURR)	1105116	LCS	20.0	20.0	ug/L	100	70.0 - 130	126004505
Dibromofluoromethane (SURR)	1105116	LCS Dup	20.0	20.0	ug/L	100	70.0 - 130	126004506
Dibromofluoromethane (SURR)	1105116	Blank	20.1	20.0	ug/L	100	70.0 - 130	126004507
TolueneD8 (SURR)	1105116	LCS	20.0	20.0	ug/L	100	70.0 - 130	126004505
TolueneD8 (SURR)	1105116	LCS Dup	19.9	20.0	ug/L	99.5	70.0 - 130	126004506
TolueneD8 (SURR)	1105116	Blank	19.6	20.0	ug/L	98.0	70.0 - 130	126004507
1,2-DCA-d4 (SURR)	2273899	Unknown	20.5	20.0	ug/L	102	70.0 - 130	126004513
Bromofluorobenzene (SURR)	2273899	Unknown	21.2	20.0	ug/L	106	70.0 - 130	126004513
Dibromofluoromethane (SURR)	2273899	Unknown	20.7	20.0	ug/L	104	70.0 - 130	126004513
TolueneD8 (SURR)	2273899	Unknown	19.8	20.0	ug/L	99.0	70.0 - 130	126004513
1,2-DCA-d4 (SURR)	2273915	MS	20.6	20.0	ug/L	103	70.0 - 130	126004518
1,2-DCA-d4 (SURR)	2273915	MSD	19.9	20.0	ug/L	99.5	70.0 - 130	126004519
Bromofluorobenzene (SURR)	2273915	MS	20.6	20.0	ug/L	103	70.0 - 130	126004518
Bromofluorobenzene (SURR)	2273915	MSD	21.4	20.0	ug/L	107	70.0 - 130	126004519
Dibromofluoromethane (SURR)	2273915	MS	20.2	20.0	ug/L	101	70.0 - 130	126004518
Dibromofluoromethane (SURR)	2273915	MSD	20.1	20.0	ug/L	100	70.0 - 130	126004519
TolueneD8 (SURR)	2273915	MS	19.7	20.0	ug/L	98.5	70.0 - 130	126004518
TolueneD8 (SURR)	2273915	MSD	20.2	20.0	ug/L	101	70.0 - 130	126004519

Analytical Set

1105177

EPA 624.1

<u>Parameter</u>	<u>Sample</u>	<u>RefMass</u>	<u>Reading</u>	<u>%</u>	<u>BFB</u>		<u>File</u>
					<u>Limits%</u>	<u>File</u>	
BFB Mass 173	1105177	174	209	1.1	0 - 2.00	126005105	
BFB Mass 174	1105177	95.0	19517	59.8	50.0 - 100	126005105	
BFB Mass 175	1105177	174	1613	8.3	5.00 - 9.00	126005105	
BFB Mass 176	1105177	174	19558	100.2	95.0 - 101	126005105	
BFB Mass 177	1105177	176	1341	6.9	5.00 - 9.00	126005105	
BFB Mass 50	1105177	95.0	5274	16.2	15.0 - 40.0	126005105	
BFB Mass 75	1105177	95.0	15674	48.1	30.0 - 60.0	126005105	



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IS Areas

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	2274081	MS	143700	149500	74760	224300	126005112	1105177
1,4-DichlorobenzeneD4 (ISTD)	2274081	MSD	130900	149500	74760	224300	126005113	1105177
ChlorobenzeneD5 (ISTD)	2274081	MS	307600	330400	165200	495600	126005112	1105177
ChlorobenzeneD5 (ISTD)	2274081	MSD	287000	330400	165200	495600	126005113	1105177

IS RetTime

Parameter	Sample	Type	Reading	CCVISM	Low	High	File	PrepSet
1,4-DichlorobenzeneD4 (ISTD)	1105177	LCS	11.97	11.96	11.90	12.02	126005107	1105177
1,4-DichlorobenzeneD4 (ISTD)	1105177	LCS Dup	11.97	11.96	11.90	12.02	126005108	1105177
1,4-DichlorobenzeneD4 (ISTD)	1105177	Blank	11.97	11.96	11.90	12.02	126005109	1105177
ChlorobenzeneD5 (ISTD)	1105177	LCS	9.597	9.597	9.537	9.657	126005107	1105177
ChlorobenzeneD5 (ISTD)	1105177	LCS Dup	9.597	9.597	9.537	9.657	126005108	1105177
ChlorobenzeneD5 (ISTD)	1105177	Blank	9.597	9.597	9.537	9.657	126005109	1105177
1,4-DichlorobenzeneD4 (ISTD)	2273899	Unknown	11.97	11.96	11.90	12.02	126005110	1105177
ChlorobenzeneD5 (ISTD)	2273899	Unknown	9.597	9.597	9.537	9.657	126005110	1105177
1,4-DichlorobenzeneD4 (ISTD)	2274081	MS	11.97	11.96	11.90	12.02	126005112	1105177
1,4-DichlorobenzeneD4 (ISTD)	2274081	MSD	11.97	11.96	11.90	12.02	126005113	1105177
ChlorobenzeneD5 (ISTD)	2274081	MS	9.597	9.597	9.537	9.657	126005112	1105177
ChlorobenzeneD5 (ISTD)	2274081	MSD	9.597	9.597	9.537	9.657	126005113	1105177

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,1,1,2-Tetrachloroethane	1105177	18.0	18.7	20.0	79.3 - 126	90.0	93.5	ug/L	3.81	30.0
1,1,1-Trichloroethane	1105177	19.1	18.8	20.0	70.0 - 130	95.5	94.0	ug/L	1.58	21.0
1,1,2,2-Tetrachloroethane	1105177	19.8	20.9	20.0	60.0 - 140	99.0	104	ug/L	4.93	36.0
1,1,2-Trichloroethane	1105177	19.8	19.9	20.0	70.0 - 130	99.0	99.5	ug/L	0.504	27.0
1,1-Dichloroethane	1105177	17.5	18.0	20.0	70.0 - 130	87.5	90.0	ug/L	2.82	24.0
1,1-Dichloroethylene	1105177	19.6	20.0	20.0	50.0 - 150	98.0	100	ug/L	2.02	40.0
1,2-Dichloroethane	1105177	19.4	19.3	20.0	70.0 - 130	97.0	96.5	ug/L	0.517	29.0
1,2-Dichloropropane	1105177	19.1	18.9	20.0	35.0 - 165	95.5	94.5	ug/L	1.05	69.0
Benzene	1105177	20.9	20.6	20.0	65.0 - 135	104	103	ug/L	0.966	33.0
Bromodichloromethane	1105177	17.8	17.8	20.0	65.0 - 135	89.0	89.0	ug/L	0	34.0
Bromoform	1105177	16.9	17.8	20.0	70.0 - 130	84.5	89.0	ug/L	5.19	25.0
Bromomethane (Methyl Bromi	1105177	17.1	17.2	20.0	15.0 - 185	85.5	86.0	ug/L	0.583	90.0
Carbon Tetrachloride	1105177	17.3	17.2	20.0	70.0 - 130	86.5	86.0	ug/L	0.580	26.0
Chlorobenzene	1105177	20.6	20.6	20.0	65.0 - 135	103	103	ug/L	0	29.0
Chloroethane	1105177	18.5	18.8	20.0	40.0 - 160	92.5	94.0	ug/L	1.61	47.0
Chloroform	1105177	20.6	20.5	20.0	70.0 - 135	103	102	ug/L	0.976	32.0
Chloromethane (Methyl Chloride)	1105177	15.5	16.2	20.0	0.100 - 205	77.5	81.0	ug/L	4.42	472
cis-1,2-Dichloroethylene	1105177	20.3	20.7	20.0	78.3 - 119	102	104	ug/L	1.94	30.0
cis-1,3-Dichloropropene	1105177	18.4	18.4	20.0	25.0 - 175	92.0	92.0	ug/L	0	79.0
Dibromochloromethane	1105177	17.8	18.1	20.0	70.0 - 135	89.0	90.5	ug/L	1.67	30.0
Dichlorodifluoromethane	1105177	16.6	18.0	20.0	18.5 - 149	83.0	90.0	ug/L	8.09	30.0
Dichloromethane	1105177	19.1	19.8	20.0	60.0 - 140	95.5	99.0	ug/L	3.60	192
Ethylbenzene	1105177	20.3	20.3	20.0	60.0 - 140	102	102	ug/L	0	34.0



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City of McAllen Waste Water
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P.O. Box 220
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McAllen, TX 78503-

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1092218

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
m- and p-Xylene	1105177	40.7	40.8	40.0	77.3 - 117	102	102	ug/L	0	30.0
m-Dichlorobenzene (1,3-DCB)	1105177	21.0	21.2	20.0	70.0 - 130	105	106	ug/L	0.948	24.0
o-Dichlorobenzene (1,2-DCB)	1105177	20.5	21.0	20.0	65.0 - 135	102	105	ug/L	2.90	31.0
o-Xylene	1105177	21.0	20.9	20.0	76.8 - 116	105	104	ug/L	0.957	30.0
p-Dichlorobenzene (1,4-DCB)	1105177	20.6	21.0	20.0	65.0 - 135	103	105	ug/L	1.92	31.0
Tetrachloroethylene	1105177	20.0	19.9	20.0	70.0 - 130	100	99.5	ug/L	0.501	23.0
Toluene	1105177	20.6	20.6	20.0	70.0 - 130	103	103	ug/L	0	22.0
trans-1,2-Dichloroethylene	1105177	19.4	20.0	20.0	70.0 - 130	97.0	100	ug/L	3.05	27.0
trans-1,3-Dichloropropene	1105177	19.1	19.7	20.0	50.0 - 150	95.5	98.5	ug/L	3.09	52.0
Trichloroethylene	1105177	19.3	19.2	20.0	65.0 - 135	96.5	96.0	ug/L	0.519	29.0
Trichlorofluoromethane	1105177	17.6	19.3	20.0	50.0 - 150	88.0	96.5	ug/L	9.21	50.0
Vinyl chloride	1105177	17.4	17.1	20.0	5.00 - 195	87.0	85.5	ug/L	1.74	100

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
1,1,1,2-Tetrachloroethane	2274081	92.6	99.8	8.05	100	29.6 - 126	84.6	91.8	ug/L	8.17	30.0
1,1,1-Trichloroethane	2274081	104	108	8.05	100	52.0 - 162	96.0	100	ug/L	4.08	36.0
1,1,2,2-Tetrachloroethane	2274081	104	116	8.05	100	46.0 - 157	96.0	108	ug/L	11.8	61.0
1,1,2-Trichloroethane	2274081	105	114	8.05	100	52.0 - 150	97.0	106	ug/L	8.87	45.0
1,1-Dichloroethane	2274081	97.6	102	8.05	100	59.0 - 155	89.6	94.0	ug/L	4.80	40.0
1,1-Dichloroethylene	2274081	112	111	8.05	100	0.100 - 234	104	103	ug/L	0.967	32.0
1,2-Dichloroethane	2274081	106	110	8.05	100	49.0 - 155	98.0	102	ug/L	4.00	49.0
1,2-Dichloropropane	2274081	101	109	8.05	100	0.100 - 210	93.0	101	ug/L	8.25	55.0
Benzene	2274081	114	117	8.05	100	37.0 - 151	106	109	ug/L	2.79	61.0
Bromodichloromethane	2274081	99.1	101	4.85	100	35.0 - 155	94.2	96.2	ug/L	2.00	56.0
Bromoform	2274081	82.4	93.0	8.05	100	45.0 - 169	74.4	85.0	ug/L	13.3	42.0
Bromomethane (Methyl Bromi	2274081	83.8	91.3	8.05	100	0.100 - 242	75.8	83.2	ug/L	9.43	61.0
Carbon Tetrachloride	2274081	92.8	97.9	8.05	100	70.0 - 140	84.8	89.8	ug/L	5.84	41.0
Chlorobenzene	2274081	112	118	8.05	100	37.0 - 160	104	110	ug/L	5.61	53.0
Chloroethane	2274081	103	106	8.05	100	14.0 - 230	95.0	98.0	ug/L	3.11	78.0
Chloroform	2274081	122	128	8.05	100	51.0 - 138	114	120	ug/L	5.13	54.0
Chloromethane (Methyl Chloride)	2274081	86.6	91.0	8.05	100	0.100 - 273	78.6	83.0	ug/L	5.45	60.0
cis-1,2-Dichloroethylene	2274081	111	116	8.05	100	9.47 - 116	103	108	ug/L	4.74	30.0
cis-1,3-Dichloropropene	2274081	96.1	101	8.05	100	0.100 - 227	88.0	93.0	ug/L	5.41	58.0
Dibromochloromethane	2274081	95.2	99.2	1.40	100	53.0 - 149	93.8	97.8	ug/L	4.18	50.0
Dichlorodifluoromethane	2274081	96.5	95.5	8.05	100	53.0 - 149	88.4	87.4	ug/L	1.14	50.0
Dichloromethane	2274081	110	110	8.05	100	0.100 - 221	102	102	ug/L	0	28.0
Ethylbenzene	2274081	110	117	8.05	100	37.0 - 162	102	109	ug/L	6.64	63.0
m- and p-Xylene	2274081	222	230	8.05	200	3.93 - 113	107	111	ug/L	3.67	30.0
m-Dichlorobenzene (1,3-DCB)	2274081	107	116	8.05	100	59.0 - 156	99.0	108	ug/L	8.70	43.0
o-Dichlorobenzene (1,2-DCB)	2274081	106	116	8.05	100	18.0 - 190	98.0	108	ug/L	9.71	57.0
o-Xylene	2274081	114	120	8.05	100	15.9 - 112	106	112	ug/L	5.51	30.0
p-Dichlorobenzene (1,4-DCB)	2274081	107	118	8.05	100	18.0 - 190	99.0	110	ug/L	10.5	57.0
Tetrachloroethylene	2274081	108	112	8.05	100	64.0 - 148	100	104	ug/L	3.92	39.0
Toluene	2274081	112	116	8.05	100	47.0 - 150	104	108	ug/L	3.78	41.0



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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
trans-1,2-Dichloroethylene	2274081	110	115	8.05	100	54.0 - 156	102	107	ug/L	4.79	45.0
trans-1,3-Dichloropropene	2274081	98.7	107	8.05	100	17.0 - 183	90.6	99.0	ug/L	8.76	86.0
Trichloroethylene	2274081	105	110	8.05	100	70.0 - 157	97.0	102	ug/L	5.03	48.0
Trichlorofluoromethane	2274081	103	105	8.05	100	17.0 - 181	95.0	97.0	ug/L	2.08	84.0
Vinyl chloride	2274081	102	102	8.05	100	0.100 - 251	94.0	94.0	ug/L	0	66.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
1,2-DCA-d4 (SURR)	1105177	LCS	19.4	20.0	ug/L	97.0	70.0 - 130	126005107
1,2-DCA-d4 (SURR)	1105177	LCS Dup	19.3	20.0	ug/L	96.5	70.0 - 130	126005108
1,2-DCA-d4 (SURR)	1105177	Blank	17.8	20.0	ug/L	89.0	70.0 - 130	126005109
Bromofluorobenzene (SURR)	1105177	LCS	19.8	20.0	ug/L	99.0	70.0 - 130	126005107
Bromofluorobenzene (SURR)	1105177	LCS Dup	19.7	20.0	ug/L	98.5	70.0 - 130	126005108
Bromofluorobenzene (SURR)	1105177	Blank	19.4	20.0	ug/L	97.0	70.0 - 130	126005109
Dibromofluoromethane (SURR)	1105177	LCS	20.0	20.0	ug/L	100	70.0 - 130	126005107
Dibromofluoromethane (SURR)	1105177	LCS Dup	19.3	20.0	ug/L	96.5	70.0 - 130	126005108
Dibromofluoromethane (SURR)	1105177	Blank	18.9	20.0	ug/L	94.5	70.0 - 130	126005109
TolueneD8 (SURR)	1105177	LCS	20.3	20.0	ug/L	102	70.0 - 130	126005107
TolueneD8 (SURR)	1105177	LCS Dup	19.6	20.0	ug/L	98.0	70.0 - 130	126005108
TolueneD8 (SURR)	1105177	Blank	20.3	20.0	ug/L	102	70.0 - 130	126005109
1,2-DCA-d4 (SURR)	2273899	Unknown	19.7	20.0	ug/L	98.5	70.0 - 130	126005110
Bromofluorobenzene (SURR)	2273899	Unknown	19.7	20.0	ug/L	98.5	70.0 - 130	126005110
Dibromofluoromethane (SURR)	2273899	Unknown	19.2	20.0	ug/L	96.0	70.0 - 130	126005110
TolueneD8 (SURR)	2273899	Unknown	20.2	20.0	ug/L	101	70.0 - 130	126005110
1,2-DCA-d4 (SURR)	2274081	MS	19.1	20.0	ug/L	95.5	70.0 - 130	126005112
1,2-DCA-d4 (SURR)	2274081	MSD	19.5	20.0	ug/L	97.5	70.0 - 130	126005113
Bromofluorobenzene (SURR)	2274081	MS	19.2	20.0	ug/L	96.0	70.0 - 130	126005112
Bromofluorobenzene (SURR)	2274081	MSD	19.7	20.0	ug/L	98.5	70.0 - 130	126005113
Dibromofluoromethane (SURR)	2274081	MS	19.1	20.0	ug/L	95.5	70.0 - 130	126005112
Dibromofluoromethane (SURR)	2274081	MSD	19.8	20.0	ug/L	99.0	70.0 - 130	126005113
TolueneD8 (SURR)	2274081	MS	20.1	20.0	ug/L	100	70.0 - 130	126005112
TolueneD8 (SURR)	2274081	MSD	20.3	20.0	ug/L	102	70.0 - 130	126005113

EPA 608.3

Analytical Set

1106361

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
4,4-DDD	2273944	1.23	0.637	ND	1.03	31.0 - 141	123	63.9	ug/L	63.5 *	39.0
4,4-DDE	2273944	0.940	0.472	ND	1.03	30.0 - 145	94.3	47.3	ug/L	66.3 *	35.0
4,4-DDT	2273944	1.09	0.568	ND	1.03	25.0 - 160	109	57.0	ug/L	63.0 *	42.0
Aldrin	2273944	0.963	0.493	ND	1.03	42.0 - 140	96.6	49.4	ug/L	64.6 *	35.0
Alpha-BHC(hexachlorocyclohexane)	2273944	1.03	0.611	ND	1.03	37.0 - 140	103	61.3	ug/L	51.1 *	36.0
Beta-BHC(hexachlorocyclohexane)	2273944	1.31	0.752	ND	1.03	17.0 - 147	131	75.4	ug/L	54.1 *	44.0
Delta-BHC(hexachlorocyclohexane)	2273944	1.30	0.734	ND	1.03	19.0 - 140	130	73.6	ug/L	55.7 *	52.0
Dieldrin	2273944	1.14	0.636	ND	1.03	36.0 - 146	114	63.8	ug/L	56.8 *	49.0
Endosulfan I (alpha)	2273944	1.09	0.611	ND	1.03	45.0 - 153	109	61.3	ug/L	56.3 *	28.0



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City of McAllen Waste Water
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McAllen, TX 78503-

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MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Endosulfan II (beta)	2273944	1.20	0.643	ND	1.03	0.100 - 202	120	64.5	ug/L	60.4 *	53.0
Endosulfan sulfate	2273944	1.32	0.718	ND	1.03	26.0 - 144	132	72.0	ug/L	59.1 *	38.0
Endrin	2273944	1.18	0.661	ND	1.03	30.0 - 147	118	66.3	ug/L	56.4 *	48.0
Endrin aldehyde	2273944	1.30	0.704	ND	1.03	37.6 - 158	130	70.6	ug/L	59.5 *	30.0
Gamma-BHC(Lindane)	2273944	1.13	0.639	ND	1.03	32.0 - 140	113	66.1	ug/L	52.7 *	39.0
Heptachlor	2273944	0.978	0.540	ND	1.03	34.0 - 140	98.1	54.2	ug/L	57.7 *	43.0
Heptachlor epoxide	2273944	1.09	0.644	ND	1.03	37.0 - 142	109	64.6	ug/L	51.4 *	26.0
Methoxychlor	2273944	1.26	0.701	ND	1.03	33.1 - 137	126	70.3	ug/L	57.0 *	30.0

EPA 608.3

Analytical Set

1106432

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
4,4-DDD	1104938	ND	0.731	1.00	ug/L	126038647
4,4-DDE	1104938	ND	0.361	1.00	ug/L	126038647
4,4-DDT	1104938	ND	0.862	1.00	ug/L	126038647
Aldrin	1104938	ND	0.260	1.00	ug/L	126038647
Alpha-BHC(hexachlorocyclohexane)	1104938	ND	0.280	1.00	ug/L	126038647
Beta-BHC(hexachlorocyclohexane)	1104938	ND	0.379	1.00	ug/L	126038647
Delta-BHC(hexachlorocyclohexane)	1104938	ND	0.898	1.00	ug/L	126038647
Dieldrin	1104938	ND	0.162	1.00	ug/L	126038647
Endosulfan I (alpha)	1104938	ND	0.679	1.00	ug/L	126038647
Endosulfan II (beta)	1104938	ND	0.356	1.00	ug/L	126038647
Endosulfan sulfate	1104938	ND	0.588	1.00	ug/L	126038647
Endrin	1104938	ND	0.538	1.00	ug/L	126038647
Endrin aldehyde	1104938	ND	0.699	1.00	ug/L	126038647
Gamma-BHC(Lindane)	1104938	ND	0.385	1.00	ug/L	126038647
Heptachlor	1104938	ND	0.207	1.00	ug/L	126038647
Heptachlor epoxide	1104938	ND	0.660	1.00	ug/L	126038647
Methoxychlor	1104938	ND	0.898	1.00	ug/L	126038647
Toxaphene	1104938	ND	0.169	0.200	ug/L	126038647

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
4,4-DDD	49.9	50.0	ug/L	99.8	75.0 - 125	126038721
4,4-DDD	53.4	50.0	ug/L	107	75.0 - 125	126038653
4,4-DDD	56.1	50.0	ug/L	112	75.0 - 125	126038662
4,4-DDD	54.8	50.0	ug/L	110	75.0 - 125	126038667
4,4-DDE	46.7	50.0	ug/L	93.4	75.0 - 125	126038721
4,4-DDE	45.6	50.0	ug/L	91.2	75.0 - 125	126038653
4,4-DDE	47.6	50.0	ug/L	95.2	75.0 - 125	126038662
4,4-DDE	45.2	50.0	ug/L	90.4	75.0 - 125	126038667
4,4-DDT	50.3	50.0	ug/L	101	75.0 - 125	126038721
4,4-DDT	44.9	50.0	ug/L	89.8	75.0 - 125	126038653
4,4-DDT	51.7	50.0	ug/L	103	75.0 - 125	126038662
4,4-DDT	47.0	50.0	ug/L	94.0	75.0 - 125	126038667



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CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Aldrin	46.4	50.0	ug/L	92.8	75.0 - 125	126038721
Aldrin	48.3	50.0	ug/L	96.6	75.0 - 125	126038653
Aldrin	49.5	50.0	ug/L	99.0	75.0 - 125	126038662
Aldrin	48.3	50.0	ug/L	96.6	75.0 - 125	126038667
Alpha-BHC(hexachlorocyclohexane)	47.4	50.0	ug/L	94.8	75.0 - 125	126038721
Alpha-BHC(hexachlorocyclohexane)	51.6	50.0	ug/L	103	75.0 - 125	126038653
Alpha-BHC(hexachlorocyclohexane)	52.1	50.0	ug/L	104	75.0 - 125	126038662
Alpha-BHC(hexachlorocyclohexane)	52.1	50.0	ug/L	104	75.0 - 125	126038667
Beta-BHC(hexachlorocyclohexane)	48.4	50.0	ug/L	96.8	75.0 - 125	126038721
Beta-BHC(hexachlorocyclohexane)	53.1	50.0	ug/L	106	75.0 - 125	126038653
Beta-BHC(hexachlorocyclohexane)	54.3	50.0	ug/L	109	75.0 - 125	126038662
Beta-BHC(hexachlorocyclohexane)	53.6	50.0	ug/L	107	75.0 - 125	126038667
Delta-BHC(hexachlorocyclohexane)	50.7	50.0	ug/L	101	75.0 - 125	126038721
Delta-BHC(hexachlorocyclohexane)	55.7	50.0	ug/L	111	75.0 - 125	126038653
Delta-BHC(hexachlorocyclohexane)	58.4	50.0	ug/L	117	75.0 - 125	126038662
Delta-BHC(hexachlorocyclohexane)	56.8	50.0	ug/L	114	75.0 - 125	126038667
Dieldrin	46.8	50.0	ug/L	93.6	75.0 - 125	126038721
Dieldrin	50.2	50.0	ug/L	100	75.0 - 125	126038653
Dieldrin	52.7	50.0	ug/L	105	75.0 - 125	126038662
Dieldrin	50.1	50.0	ug/L	100	75.0 - 125	126038667
Endosulfan I (alpha)	46.1	50.0	ug/L	92.2	75.0 - 125	126038721
Endosulfan I (alpha)	49.6	50.0	ug/L	99.2	75.0 - 125	126038653
Endosulfan I (alpha)	51.8	50.0	ug/L	104	75.0 - 125	126038662
Endosulfan I (alpha)	49.5	50.0	ug/L	99.0	75.0 - 125	126038667
Endosulfan II (beta)	47.3	50.0	ug/L	94.6	75.0 - 125	126038721
Endosulfan II (beta)	49.6	50.0	ug/L	99.2	75.0 - 125	126038653
Endosulfan II (beta)	53.0	50.0	ug/L	106	75.0 - 125	126038662
Endosulfan II (beta)	50.3	50.0	ug/L	101	75.0 - 125	126038667
Endosulfan sulfate	48.0	50.0	ug/L	96.0	75.0 - 125	126038721
Endosulfan sulfate	55.5	50.0	ug/L	111	75.0 - 125	126038653
Endosulfan sulfate	61.9	50.0	ug/L	124	75.0 - 125	126038662
Endosulfan sulfate	60.7	50.0	ug/L	121	75.0 - 125	126038667
Endrin	47.6	50.0	ug/L	95.2	75.0 - 125	126038721
Endrin	51.2	50.0	ug/L	102	75.0 - 125	126038653
Endrin	54.0	50.0	ug/L	108	75.0 - 125	126038662
Endrin	50.6	50.0	ug/L	101	75.0 - 125	126038667
Endrin aldehyde	50.1	50.0	ug/L	100	75.0 - 125	126038721
Endrin aldehyde	50.7	50.0	ug/L	101	75.0 - 125	126038653
Endrin aldehyde	55.4	50.0	ug/L	111	75.0 - 125	126038662
Endrin aldehyde	52.2	50.0	ug/L	104	75.0 - 125	126038667
Gamma-BHC(Lindane)	47.4	50.0	ug/L	94.8	75.0 - 125	126038721
Gamma-BHC(Lindane)	51.0	50.0	ug/L	102	75.0 - 125	126038653
Gamma-BHC(Lindane)	54.1	50.0	ug/L	108	75.0 - 125	126038662
Gamma-BHC(Lindane)	53.5	50.0	ug/L	107	75.0 - 125	126038667
Heptachlor	45.5	50.0	ug/L	91.0	75.0 - 125	126038721



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1092218

Printed 03/07/2024

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Heptachlor	47.1	50.0	ug/L	94.2	75.0 - 125	126038653
Heptachlor	50.6	50.0	ug/L	101	75.0 - 125	126038662
Heptachlor	48.3	50.0	ug/L	96.6	75.0 - 125	126038667
Heptachlor epoxide	44.3	50.0	ug/L	88.6	75.0 - 125	126038721
Heptachlor epoxide	48.4	50.0	ug/L	96.8	75.0 - 125	126038653
Heptachlor epoxide	50.8	50.0	ug/L	102	75.0 - 125	126038662
Heptachlor epoxide	48.8	50.0	ug/L	97.6	75.0 - 125	126038667
Methoxychlor	52.5	50.0	ug/L	105	75.0 - 125	126038721
Methoxychlor	52.1	50.0	ug/L	104	75.0 - 125	126038653
Methoxychlor	58.8	50.0	ug/L	118	75.0 - 125	126038662
Methoxychlor	53.1	50.0	ug/L	106	75.0 - 125	126038667

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
4,4-DDD	1104938	58.7	62.0	100	31.0 - 141	58.7	62.0	ug/L	5.47	39.0
4,4-DDE	1104938	49.0	50.7	100	30.0 - 145	49.0	50.7	ug/L	3.41	35.0
4,4-DDT	1104938	63.0	55.4	100	25.0 - 160	63.0	55.4	ug/L	12.8	42.0
Aldrin	1104938	42.7	50.0	100	42.0 - 140	42.7	50.0	ug/L	15.7	35.0
Alpha-BHC(hexachlorocyclohexane)	1104938	52.1	56.9	100	37.0 - 140	52.1	56.9	ug/L	8.81	36.0
Beta-BHC(hexachlorocyclohexane)	1104938	59.2	68.4	100	17.0 - 147	59.2	68.4	ug/L	14.4	44.0
Delta-BHC(hexachlorocyclohexane)	1104938	56.5	66.7	100	19.0 - 140	56.5	66.7	ug/L	16.6	52.0
Dieldrin	1104938	53.2	57.9	100	36.0 - 146	53.2	57.9	ug/L	8.46	49.0
Endosulfan I (alpha)	1104938	50.7	55.3	100	45.0 - 153	50.7	55.3	ug/L	8.68	28.0
Endosulfan II (beta)	1104938	56.6	59.0	100	0.100 - 202	56.6	59.0	ug/L	4.15	53.0
Endosulfan sulfate	1104938	60.6	62.8	100	26.0 - 144	60.6	62.8	ug/L	3.57	38.0
Endrin	1104938	54.3	58.7	100	30.0 - 147	54.3	58.7	ug/L	7.79	48.0
Endrin aldehyde	1104938	68.2	64.7	100	37.6 - 158	68.2	64.7	ug/L	5.27	30.0
Gamma-BHC(Lindane)	1104938	52.4	60.9	100	32.0 - 140	52.4	60.9	ug/L	15.0	39.0
Heptachlor	1104938	43.2	48.8	100	34.0 - 140	43.2	48.8	ug/L	12.2	43.0
Heptachlor epoxide	1104938	51.2	57.1	100	37.0 - 142	51.2	57.1	ug/L	10.9	26.0
Methoxychlor	1104938	68.9	58.2	100	33.1 - 137	68.9	58.2	ug/L	16.8	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	621878	CCV	46.3	100	ug/L	46.3	0.100 - 144	126038721
Decachlorobiphenyl	621878	CCV	41.4	100	ug/L	41.4	0.100 - 144	126038653
Decachlorobiphenyl	621878	CCV	45.5	100	ug/L	45.5	0.100 - 144	126038662
Decachlorobiphenyl	621878	CCV	40.9	100	ug/L	40.9	0.100 - 144	126038667
Tetrachloro-m-Xylene (Surr)	621878	CCV	44.1	100	ug/L	44.1	0.100 - 107	126038721
Tetrachloro-m-Xylene (Surr)	621878	CCV	43.3	100	ug/L	43.3	0.100 - 107	126038653
Tetrachloro-m-Xylene (Surr)	621878	CCV	42.6	100	ug/L	42.6	0.100 - 107	126038662
Tetrachloro-m-Xylene (Surr)	621878	CCV	43.1	100	ug/L	43.1	0.100 - 107	126038667
Decachlorobiphenyl	1104938	Blank	49.1	100	ug/L	49.1	0.100 - 144	126038647
Decachlorobiphenyl	1104938	LCS	57.4	100	ug/L	57.4	0.100 - 144	126038648
Decachlorobiphenyl	1104938	LCS Dup	24.6	100	ug/L	24.6	0.100 - 144	126038649



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R. Saenz/J. Espinoza
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Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tetrachloro-m-Xylene (Surr)	1104938	Blank	50.0	100	ug/L	50.0	0.100 - 107	126038647
Tetrachloro-m-Xylene (Surr)	1104938	LCS	43.0	100	ug/L	43.0	0.100 - 107	126038648
Tetrachloro-m-Xylene (Surr)	1104938	LCS Dup	23.9	100	ug/L	23.9	0.100 - 107	126038649
Decachlorobiphenyl	2273901	Unknown	0.694	0.970	ug/L	71.5	0.100 - 144	126038660
Tetrachloro-m-Xylene (Surr)	2273901	Unknown	0.442	0.970	ug/L	45.6	0.100 - 107	126038660

EPA 608.3

Analytical Set 1106707

Blank						
Parameter	PrepSet	Reading	MDL	MQL	Units	File
PCB-1016	1104940	ND	0.202	0.202	ug/L	126044275
PCB-1221	1104940	ND	0.143	0.200	ug/L	126044275
PCB-1232	1104940	ND	0.143	0.200	ug/L	126044275
PCB-1242	1104940	ND	0.192	0.200	ug/L	126044275
PCB-1248	1104940	ND	0.143	0.200	ug/L	126044275
PCB-1254	1104940	ND	0.143	0.200	ug/L	126044275
PCB-1260	1104940	ND	0.161	0.200	ug/L	126044275
PCB-1262	1104940	ND	0.198	0.200	ug/L	126044275
PCB-1268	1104940	ND	0.143	0.200	ug/L	126044275

CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
PCB-1016	934	1000	ug/L	93.4	80.0 - 115	126044274
PCB-1016	834	1000	ug/L	83.4	80.0 - 115	126044286
PCB-1016	883	1000	ug/L	88.3	80.0 - 115	126044289
PCB-1016	897	1000	ug/L	89.7	80.0 - 115	126044292
PCB-1016	876	1000	ug/L	87.6	80.0 - 115	126044293
PCB-1016	939	1000	ug/L	93.9	80.0 - 115	126044298
PCB-1016	960	1000	ug/L	96.0	80.0 - 115	126044301
PCB-1016	888	1000	ug/L	88.8	80.0 - 115	126044274
PCB-1260	766	1000	ug/L	76.6	80.0 - 115 *	126044286
PCB-1260	765	1000	ug/L	76.5	80.0 - 115 *	126044289
PCB-1260	772	1000	ug/L	77.2	80.0 - 115 *	126044292
PCB-1260	798	1000	ug/L	79.8	80.0 - 115 *	126044293
PCB-1260	778	1000	ug/L	77.8	80.0 - 115 *	126044298
PCB-1260	813	1000	ug/L	81.3	80.0 - 115	126044301

LCS Dup									
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD
PCB-1016	1104940	516	541	1000	39.8 - 135	51.6	54.1	ug/L	4.73
PCB-1260	1104940	605	583	1000	36.1 - 134	60.5	58.3	ug/L	3.70

Surrogate								
Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Decachlorobiphenyl	1104940	Blank	49.1	100	ug/L	49.1	10.0 - 200	126044275
Tetrachloro-m-Xylene (Surr)	1104940	Blank	50.0	100	ug/L	50.0	10.0 - 200	126044275
Decachlorobiphenyl	2273901	Unknown	0.694	0.970	ug/L	71.5	10.0 - 200	126044290



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Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tetrachloro-m-Xylene (Surr)	2273901	Unknown	0.442	0.970	ug/L	45.6	10.0 - 200	126044290

Analytical Set

1107977

EPA 625.1

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
1,2,4-Trichlorobenzene	1105392	ND	0.720	1.00	ug/L	126068602
1,2-Dichlorobenzene	1105392	ND	0.598	1.00	ug/L	126068602
1,2-DPH (as azobenzene)	1105392	ND	0.695	1.00	ug/L	126068602
1,3-Dichlorobenzene	1105392	ND	0.686	1.00	ug/L	126068602
1,4-Dichlorobenzene	1105392	ND	0.633	1.00	ug/L	126068602
2,4,6-Trichlorophenol	1105392	ND	0.704	1.00	ug/L	126068602
2,4-Dichlorophenol	1105392	ND	0.567	1.00	ug/L	126068602
2,4-Dimethylphenol	1105392	ND	2.32	2.40	ug/L	126068602
2,4-Dinitrophenol	1105392	ND	8.07	9.00	ug/L	126068602
2,4-Dinitrotoluene	1105392	ND	3.35	3.50	ug/L	126068602
2,6-Dinitrotoluene	1105392	ND	0.675	1.00	ug/L	126068602
2-Chloronaphthalene	1105392	ND	0.333	1.00	ug/L	126068602
2-Chlorophenol	1105392	ND	0.367	1.00	ug/L	126068602
2-Nitrophenol	1105392	ND	0.495	1.00	ug/L	126068602
3,3'-Dichlorobenzidine	1105392	ND	4.79	5.00	ug/L	126068602
4,6-Dinitro-2-methylphenol	1105392	ND	7.88	8.00	ug/L	126068602
4-Bromophenyl phenyl ether	1105392	ND	0.311	1.00	ug/L	126068602
4-Chlorophenyl phenyl ether	1105392	ND	0.281	1.00	ug/L	126068602
4-Nitrophenol	1105392	ND	0.932	1.00	ug/L	126068602
Acenaphthene	1105392	ND	0.139	1.00	ug/L	126068602
Acenaphthylene	1105392	ND	0.202	1.00	ug/L	126068602
Anthracene	1105392	ND	0.538	1.00	ug/L	126068602
Benzidine	1105392	ND	19.9	20.0	ug/L	126068602
Benzo(a)anthracene	1105392	ND	0.627	1.00	ug/L	126068602
Benzo(a)pyrene	1105392	ND	0.478	1.00	ug/L	126068602
Benzo(b)fluoranthene	1105392	ND	0.517	1.00	ug/L	126068602
Benzo(ghi)perylene	1105392	ND	0.750	1.00	ug/L	126068602
Benzo(k)fluoranthene	1105392	ND	0.763	1.00	ug/L	126068602
Benzyl Butyl phthalate	1105392	1.06	0.696	7.50	ug/L	126068602
Bis(2-chloroethoxy)methane	1105392	ND	0.312	1.00	ug/L	126068602
Bis(2-chloroethyl)ether	1105392	ND	0.434	1.00	ug/L	126068602
Bis(2-chloroisopropyl)ether	1105392	ND	0.448	1.00	ug/L	126068602
Bis(2-ethylhexyl)phthalate	1105392	ND	1.63	7.50	ug/L	126068602
Chrysene (Benzo(a)phenanthrene)	1105392	ND	0.575	1.00	ug/L	126068602
Dibenz(a,h)anthracene	1105392	ND	0.872	1.00	ug/L	126068602
Diethyl phthalate	1105392	ND	0.721	5.70	ug/L	126068602
Dimethyl phthalate	1105392	ND	0.497	4.80	ug/L	126068602
Di-n-butylphthalate	1105392	ND	0.834	7.50	ug/L	126068602
Di-n-octylphthalate	1105392	ND	0.782	1.00	ug/L	126068602



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Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Fluoranthene(Benzo(j,k)fluorene)	1105392	ND	0.772	1.00	ug/L	126068602
Fluorene	1105392	ND	0.512	1.00	ug/L	126068602
Hexachlorobenzene	1105392	ND	0.187	1.00	ug/L	126068602
Hexachlorobutadiene	1105392	ND	0.618	1.00	ug/L	126068602
Hexachlorocyclopentadiene	1105392	ND	8.69	9.00	ug/L	126068602
Hexachloroethane	1105392	ND	0.789	1.00	ug/L	126068602
Indeno(1,2,3-cd)pyrene	1105392	ND	0.793	1.00	ug/L	126068602
Isophorone	1105392	ND	0.468	1.00	ug/L	126068602
Naphthalene	1105392	ND	0.387	1.00	ug/L	126068602
Nitrobenzene	1105392	ND	0.390	1.00	ug/L	126068602
N-Nitrosodimethylamine	1105392	ND	6.64	7.00	ug/L	126068602
N-Nitrosodi-n-propylamine	1105392	ND	0.777	1.00	ug/L	126068602
N-Nitrosodiphenylamine (as DPA	1105392	ND	0.427	1.00	ug/L	126068602
p-Chloro-m-Cresol (4-Chloro-3-me	1105392	ND	2.35	2.40	ug/L	126068602
Pentachlorophenol	1105392	ND	0.129	1.00	ug/L	126068602
Phenanthrene	1105392	ND	0.624	1.00	ug/L	126068602
Phenol	1105392	ND	1.50	1.50	ug/L	126068602
Pyrene	1105392	ND	0.587	1.00	ug/L	126068602

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
1,2,4-Trichlorobenzene	52100	50000	ug/L	104	61.0 - 130	126068601
1,2-Dichlorobenzene	54400	50000	ug/L	109	60.0 - 140	126068601
1,2-DPH (as azobenzene)	58300	50000	ug/L	117	60.0 - 140	126068601
1,3-Dichlorobenzene	55800	50000	ug/L	112	60.0 - 140	126068601
1,4-Dichlorobenzene	54300	50000	ug/L	109	60.0 - 140	126068601
2,4,6-Trichlorophenol	55800	50000	ug/L	112	69.0 - 130	126068601
2,4-Dichlorophenol	52900	50000	ug/L	106	64.0 - 130	126068601
2,4-Dimethylphenol	46500	50000	ug/L	93.0	58.0 - 130	126068601
2,4-Dinitrophenol	47400	50000	ug/L	94.8	39.0 - 173	126068601
2,4-Dinitrotoluene	55500	50000	ug/L	111	53.0 - 130	126068601
2,6-Dinitrotoluene	54000	50000	ug/L	108	68.0 - 137	126068601
2-Chloronaphthalene	50000	50000	ug/L	100	70.0 - 130	126068601
2-Chlorophenol	54900	50000	ug/L	110	55.0 - 130	126068601
2-Nitrophenol	52800	50000	ug/L	106	61.0 - 163	126068601
3,3'-Dichlorobenzidine	57200	50000	ug/L	114	18.0 - 213	126068601
4,6-Dinitro-2-methylphenol	51900	50000	ug/L	104	56.0 - 130	126068601
4-Bromophenyl phenyl ether	62200	50000	ug/L	124	70.0 - 130	126068601
4-Chlorophenyl phenyl ethe	55300	50000	ug/L	111	57.0 - 145	126068601
4-Nitrophenol	46600	50000	ug/L	93.2	35.0 - 135	126068601
Acenaphthene	56700	50000	ug/L	113	70.0 - 130	126068601
Acenaphthylene	58800	50000	ug/L	118	60.0 - 130	126068601
Anthracene	60100	50000	ug/L	120	58.0 - 130	126068601
Benidine	38500	50000	ug/L	77.0	20.0 - 180	126068601
Benzo(a)anthracene	53500	50000	ug/L	107	42.0 - 133	126068601



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Parameter	Reading	Known	Units	Recover%	Limits%	File
Benzo(a)pyrene	57000	50000	ug/L	114	32.0 - 148	126068601
Benzo(b)fluoranthene	56100	50000	ug/L	112	42.0 - 140	126068601
Benzo(ghi)perylene	57100	50000	ug/L	114	13.0 - 195	126068601
Benzo(k)fluoranthene	57900	50000	ug/L	116	25.0 - 146	126068601
Benzyl Butyl phthalate	53800	50000	ug/L	108	43.0 - 140	126068601
Bis(2-chloroethoxy)methane	52300	50000	ug/L	105	52.0 - 164	126068601
Bis(2-chloroethyl)ether	52400	50000	ug/L	105	52.0 - 130	126068601
Bis(2-chloroisopropyl)ether	52100	50000	ug/L	104	63.0 - 139	126068601
Bis(2-ethylhexyl)phthalate	60700	50000	ug/L	121	43.0 - 137	126068601
Chrysene (Benzo(a)phenanthrene)	59900	50000	ug/L	120	44.0 - 140	126068601
Dibenz(a,h)anthracene	57600	50000	ug/L	115	13.0 - 200	126068601
Diethyl phthalate	52000	50000	ug/L	104	47.0 - 130	126068601
Dimethyl phthalate	52700	50000	ug/L	105	50.0 - 130	126068601
Di-n-butylphthalate	51400	50000	ug/L	103	52.0 - 130	126068601
Di-n-octylphthalate	59500	50000	ug/L	119	21.0 - 132	126068601
Fluoranthene(Benzo(j,k)fluorene)	53200	50000	ug/L	106	47.0 - 130	126068601
Fluorene	58000	50000	ug/L	116	70.0 - 130	126068601
Hexachlorobenzene	59700	50000	ug/L	119	38.0 - 142	126068601
Hexachlorobutadiene	51000	50000	ug/L	102	68.0 - 130	126068601
Hexachlorocyclopentadiene	53000	50000	ug/L	106	60.0 - 140	126068601
Hexachloroethane	53400	50000	ug/L	107	55.0 - 130	126068601
Indeno(1,2,3-cd)pyrene	57300	50000	ug/L	115	13.0 - 151	126068601
Isophorone	57800	50000	ug/L	116	52.0 - 180	126068601
Naphthalene	55200	50000	ug/L	110	70.0 - 130	126068601
Nitrobenzene	54800	50000	ug/L	110	54.0 - 158	126068601
N-Nitrosodimethylamine	53100	50000	ug/L	106	60.0 - 140	126068601
N-Nitrosodi-n-propylamine	58100	50000	ug/L	116	59.0 - 170	126068601
N-Nitrosodiphenylamine (as DPA	52900	50000	ug/L	106	60.0 - 140	126068601
p-Chloro-m-Cresol (4-Chloro-3-me	53000	50000	ug/L	106	68.0 - 130	126068601
Pentachlorophenol	53200	50000	ug/L	106	42.0 - 152	126068601
Phenanthrene	58300	50000	ug/L	117	67.0 - 130	126068601
Phenol	55200	50000	ug/L	110	48.0 - 130	126068601
Pyrene	55600	50000	ug/L	111	70.0 - 130	126068601

DFTPP

<i>Parameter</i>		<i>RefMass</i>	<i>Reading</i>	<i>%</i>	<i>Limits%</i>	<i>File</i>
DFTPP Mass 127	623138	198	30179	52.4	40.0 - 60.0	126068599
DFTPP Mass 197	623138	198	18	0.0	0 - 1.00	126068599
DFTPP Mass 198	623138	198	57545	100.0	100 - 100	126068599
DFTPP Mass 199	623138	198	3917	6.8	5.00 - 9.00	126068599
DFTPP Mass 275	623138	198	15963	27.7	10.0 - 30.0	126068599
DFTPP Mass 365	623138	198	2698	4.7	1.00 - 100	126068599
DFTPP Mass 441	623138	443	2651	32.9	0 - 100	126068599
DFTPP Mass 442	623138	198	42420	73.7	40.0 - 100	126068599
DFTPP Mass 443	623138	442	8056	19.0	17.0 - 23.0	126068599



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DFTPP

Parameter	RefMass	Reading	%	Limits%
DFTPP Mass 51	623138	198	18512	32.2
DFTPP Mass 68	623138	69.0	3	0.0
DFTPP Mass 69	623138	198	29974	52.1
DFTPP Mass 70	623138	69.0	34	0.1

File
126068599
126068599
126068599
126068599

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
1,2,4-Trichlorobenzene	1105392	14.5	15.9	25.0	44.0 - 142	58.0	63.6	ug/L	9.21	50.0
1,2-Dichlorobenzene	1105392	17.1	15.6	25.0	23.0 - 81.8	68.4	62.4	ug/L	9.17	50.0
1,2-DPH (as azobenzene)	1105392	23.4	22.4	25.0	12.6 - 110	93.6	89.6	ug/L	4.37	50.0
1,3-Dichlorobenzene	1105392	15.1	14.7	25.0	21.1 - 80.5	60.4	58.8	ug/L	2.68	50.0
1,4-Dichlorobenzene	1105392	15.2	15.7	25.0	21.4 - 76.9	60.8	62.8	ug/L	3.24	50.0
2,4,6-Trichlorophenol	1105392	22.2	20.6	25.0	37.0 - 144	88.8	82.4	ug/L	7.48	58.0
2,4-Dichlorophenol	1105392	18.8	19.9	25.0	39.0 - 135	75.2	79.6	ug/L	5.68	50.0
2,4-Dimethylphenol	1105392	2.23	1.60	25.0	23.0 - 120	8.92 *	6.40 *	ug/L	32.9	68.0
2,4-Dinitrophenol	1105392	18.7	18.0	25.0	0.100 - 191	74.8	72.0	ug/L	3.81	132
2,4-Dinitrotoluene	1105392	20.6	22.1	25.0	39.0 - 139	82.4	88.4	ug/L	7.03	42.0
2,6-Dinitrotoluene	1105392	21.3	20.6	25.0	50.0 - 158	85.2	82.4	ug/L	3.34	48.0
2-Chloronaphthalene	1105392	21.1	20.4	25.0	60.0 - 120	84.4	81.6	ug/L	3.37	24.0
2-Chlorophenol	1105392	18.2	17.2	25.0	23.0 - 134	72.8	68.8	ug/L	5.65	61.0
2-Nitrophenol	1105392	18.9	22.1	25.0	29.0 - 182	75.6	88.4	ug/L	15.6	55.0
3,3'-Dichlorobenzidine	1105392	20.7	19.2	25.0	0.100 - 262	82.8	76.8	ug/L	7.52	108
4,6-Dinitro-2-methylphenol	1105392	21.6	16.7	25.0	0.100 - 181	86.4	66.8	ug/L	25.6	203
4-Bromophenyl phenyl ether	1105392	20.8	20.0	25.0	53.0 - 127	83.2	80.0	ug/L	3.92	43.0
4-Chlorophenyl phenyl ether	1105392	18.7	18.6	25.0	25.0 - 158	74.8	74.4	ug/L	0.536	61.0
4-Nitrophenol	1105392	8.16	10.3	25.0	0.100 - 132	32.6	41.2	ug/L	23.3	131
Acenaphthene	1105392	20.0	19.3	25.0	47.0 - 145	80.0	77.2	ug/L	3.56	48.0
Acenaphthylene	1105392	21.5	20.8	25.0	33.0 - 145	86.0	83.2	ug/L	3.31	74.0
Anthracene	1105392	20.8	20.0	25.0	27.0 - 133	83.2	80.0	ug/L	3.92	66.0
Benzidine	1105392	1.61	0.360	25.0	0.100 - 36.9	6.44	1.44	ug/L	127 *	90.0
Benzo(a)anthracene	1105392	21.6	20.1	25.0	33.0 - 143	86.4	80.4	ug/L	7.19	53.0
Benzo(a)pyrene	1105392	21.4	20.7	25.0	17.0 - 163	85.6	82.8	ug/L	3.33	72.0
Benzo(b)fluoranthene	1105392	21.3	21.0	25.0	24.0 - 159	85.2	84.0	ug/L	1.42	71.0
Benzo(ghi)perylene	1105392	24.2	24.4	25.0	0.100 - 219	96.8	97.6	ug/L	0.823	97.0
Benzo(k)fluoranthene	1105392	22.3	20.0	25.0	11.0 - 162	89.2	80.0	ug/L	10.9	63.0
Benzyl Butyl phthalate	1105392	23.3	20.0	25.0	0.100 - 152	93.2	80.0	ug/L	15.2	60.0
Bis(2-chloroethoxy)methane	1105392	18.7	19.4	25.0	33.0 - 184	74.8	77.6	ug/L	3.67	54.0
Bis(2-chloroethyl)ether	1105392	20.5	17.5	25.0	12.0 - 158	82.0	70.0	ug/L	15.8	108
Bis(2-chloroisopropyl)ether	1105392	17.0	17.2	25.0	36.0 - 166	68.0	68.8	ug/L	1.17	76.0
Bis(2-ethylhexyl)phthalate	1105392	31.4	25.5	25.0	8.00 - 158	126	102	ug/L	21.1	82.0
Chrysene (Benzo(a)phenanthrene)	1105392	23.1	21.5	25.0	17.0 - 168	92.4	86.0	ug/L	7.17	87.0
Dibenz(a,h)anthracene	1105392	23.4	21.4	25.0	0.100 - 227	93.6	85.6	ug/L	8.93	126
Diethyl phthalate	1105392	20.8	22.0	25.0	0.100 - 120	83.2	88.0	ug/L	5.61	100
Dimethyl phthalate	1105392	23.0	21.3	25.0	0.100 - 120	92.0	85.2	ug/L	7.67	183
Di-n-butylphthalate	1105392	21.4	20.3	25.0	1.00 - 120	85.6	81.2	ug/L	5.28	47.0



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McAllen, TX 78503-

Project

1092218

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Di-n-octylphthalate	1105392	23.8	22.8	25.0	4.00 - 146	95.2	91.2	ug/L	4.29	69.0
Fluoranthene(Benzo(j,k)fluorene)	1105392	20.9	20.1	25.0	26.0 - 137	83.6	80.4	ug/L	3.90	66.0
Fluorene	1105392	19.8	19.5	25.0	59.0 - 121	79.2	78.0	ug/L	1.53	38.0
Hexachlorobenzene	1105392	21.7	20.1	25.0	0.100 - 152	86.8	80.4	ug/L	7.66	55.0
Hexachlorobutadiene	1105392	12.8	15.3	25.0	24.0 - 120	51.2	61.2	ug/L	17.8	62.0
Hexachlorocyclopentadiene	1105392	10.9	10.5	25.0	3.97 - 68.7	43.6	42.0	ug/L	3.74	50.0
Hexachloroethane	1105392	14.1	14.5	25.0	40.0 - 120	56.4	58.0	ug/L	2.80	52.0
Indeno(1,2,3-cd)pyrene	1105392	22.9	20.6	25.0	0.100 - 171	91.6	82.4	ug/L	10.6	99.0
Isophorone	1105392	18.7	21.3	25.0	21.0 - 196	74.8	85.2	ug/L	13.0	93.0
Naphthalene	1105392	17.1	18.3	25.0	21.0 - 133	68.4	73.2	ug/L	6.78	65.0
Nitrobenzene	1105392	19.7	22.4	25.0	35.0 - 180	78.8	89.6	ug/L	12.8	62.0
N-Nitrosodimethylamine	1105392	10.7	10.3	25.0	30.2 - 74.9	42.8	41.2	ug/L	3.81	50.0
N-Nitrosodi-n-propylamine	1105392	19.5	19.0	25.0	0.100 - 230	78.0	76.0	ug/L	2.60	87.0
N-Nitrosodiphenylamine (as DPA	1105392	22.6	19.7	25.0	49.3 - 94.2	90.4	78.8	ug/L	13.7	50.0
p-Chloro-m-Cresol (4-Chloro-3-me	1105392	18.3	19.2	25.0	22.0 - 147	73.2	76.8	ug/L	4.80	70.0
Pentachlorophenol	1105392	19.2	19.0	25.0	14.0 - 176	76.8	76.0	ug/L	1.05	86.0
Phenanthrene	1105392	21.5	20.1	25.0	54.0 - 120	86.0	80.4	ug/L	6.73	39.0
Phenol	1105392	8.20	7.02	25.0	5.00 - 120	32.8	28.1	ug/L	15.4	64.0
Pyrene	1105392	25.3	20.9	25.0	52.0 - 120	101	83.6	ug/L	18.9	49.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
2,4,6-Tribromophenol	623306	CCV	45800	100000	ug/L	45.8	10.0 - 150	126068601
2-Fluorophenol-SURR	623306	CCV	52700	100000	ug/L	52.7	10.0 - 150	126068601
4-Terphenyl-d14-SURR	623306	CCV	51800	50000	ug/L	104	30.0 - 150	126068601
Nitrobenzene-d5-SURR	623306	CCV	51400	50000	ug/L	103	30.0 - 150	126068601
Phenol-d6-SURR	623306	CCV	54500	100000	ug/L	54.5	10.0 - 150	126068601
2,4,6-Tribromophenol	1105392	Blank	45.6	100	ug/L	45.6	10.0 - 150	126068602
2,4,6-Tribromophenol	1105392	LCS	60.4	100	ug/L	60.4	10.0 - 150	126068603
2,4,6-Tribromophenol	1105392	LCS Dup	70.2	100	ug/L	70.2	10.0 - 150	126068604
2-Fluorophenol-SURR	1105392	Blank	31600	100000	ug/L	31.6	10.0 - 150	126068602
2-Fluorophenol-SURR	1105392	LCS	40800	100000	ug/L	40.8	10.0 - 150	126068603
2-Fluorophenol-SURR	1105392	LCS Dup	36600	100000	ug/L	36.6	10.0 - 150	126068604
2-Fluorophenol-SURR	1105392	Blank	33600	50000	ug/L	67.2	30.0 - 150	126068602
4-Terphenyl-d14-SURR	1105392	LCS	47300	50000	ug/L	94.6	30.0 - 150	126068603
4-Terphenyl-d14-SURR	1105392	LCS Dup	39100	50000	ug/L	78.2	30.0 - 150	126068604
Nitrobenzene-d5-SURR	1105392	Blank	29700	50000	ug/L	59.4	30.0 - 150	126068602
Nitrobenzene-d5-SURR	1105392	LCS	35200	50000	ug/L	70.4	30.0 - 150	126068603
Nitrobenzene-d5-SURR	1105392	LCS Dup	41700	50000	ug/L	83.4	30.0 - 150	126068604
Phenol-d6-SURR	1105392	Blank	21600	100000	ug/L	21.6	10.0 - 150	126068602
Phenol-d6-SURR	1105392	LCS	26800	100000	ug/L	26.8	10.0 - 150	126068603
Phenol-d6-SURR	1105392	LCS Dup	24000	100000	ug/L	24.0	10.0 - 150	126068604
2,4,6-Tribromophenol	2273901	Unknown	66.0	96.4	ug/L	68.5	10.0 - 150	126068605
2-Fluorophenol-SURR	2273901	Unknown	41.7	96.4	ug/L	43.3	10.0 - 150	126068605
4-Terphenyl-d14-SURR	2273901	Unknown	43.4	48.2	ug/L	90.0	30.0 - 150	126068605



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R. Saenz/J. Espinoza
P.O. Box 220
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Parameter	Surrogate					Recover%	Limits%	File
	Sample	Type	Reading	Known	Units			
Nitrobenzene-d5-SURR	2273901	Unknown	39.1	48.2	ug/L	81.1	30.0 - 150	126068605
Phenol-d6-SURR	2273901	Unknown	26.2	96.4	ug/L	27.2	10.0 - 150	126068605

* Out RPD is Relative Percent Difference: $\text{abs}(r_1 - r_2) / \text{mean}(r_1, r_2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); 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.); 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 standard 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 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.); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); DFTPP - GC/MS Tuning Compound



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City of McAllen
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McAllen, Texas 79505
Phone (956) 681-1764
Fax: (956) 681-1754

Wastewater Laboratory

CHAIN OF CUSTODY

2273899
901

Facility : South Wastewater Plant 4100 McAllen, Tx		Sampling Location: OUTFALL #001		Date Collected: 2 / 14 - 15 / 24		Samplers: Refer to "Proportioned by flow" log		Comments
Sample & Identification No.	Sample Date/Time	Sample Type Comp. Grab	# of sample containers	Sample Matrix	Preservative	Analysis		
EFFLUENT 24-008	Start: 2/15/24 @ 8:15	X	(2) Glass Vials 40 ml unpreserved Lot # B 301202 V B	Liquid	Ice	Table II : Volatiles Acrolein/ Acrylonitrile EPA 624.1 method	Analyze according to 40CFR 136 Methods Use the more sensitive method	
EFFLUENT 24-009	Start: 2/14/24 @ 08:00 End: 2/15/24 @ 06:00	24 hr	(3) Glass vials 40 ml w/Na2S2O3 Lot # B 314202 V B	Liquid	Na2S2O3	Table II: Volatiles EPA 624.1 method	Analyze according to 40CFR 136 Methods Use the more sensitive method	
EFFLUENT 24-010	Start: 2/14/24 @ 08:00 End: 2/15/24 @ 06:00	24 hr	(2) 1 L Unpreserved Amber glass bottles Lot # A 326901 D B	Liquid	Ice	From Table II : Semi-Volatiles EPA 625.1	Analyze according to 40CFR 136 Methods Use the more sensitive method	
EFFLUENT 24-011	Start: 2/14/24 @ 08:00 End: 2/15/24 @ 06:00	24 hr	(1) 1 L Unpreserved Amber glass bottles Lot # A 326901 D B	Liquid	Ice	From Table II : Pesticides EPA 608.3	Analyze according to 40CFR 136 Methods Use the more sensitive method	
24-008, 009, 010, 011	Relinquished by: Michael Lopez Date: 2/15/24 Time: 14:15pm					Received by: Jaseo. Date: 2-15-24 Time: 7:45	Analyze according to 40CFR 136 Methods Use the more sensitive method	
24-008, 009, 010, 011	Relinquished by: [Signature] Date: 2/15/24 Time: 14:15pm					Received by: ANA LAB CARRIER Frank Gamez II - SPL, Inc. Date: 2-15-24 Time: 14:15	Analyze according to 40CFR 136 Methods Use the more sensitive method	

MAPU-R-108

Project No. P-24-008

Remarks:

Permit Requirement: Non-Priority Pollutants
Please use the MAL's and approved methods. Please meet MDL's specified on contract.

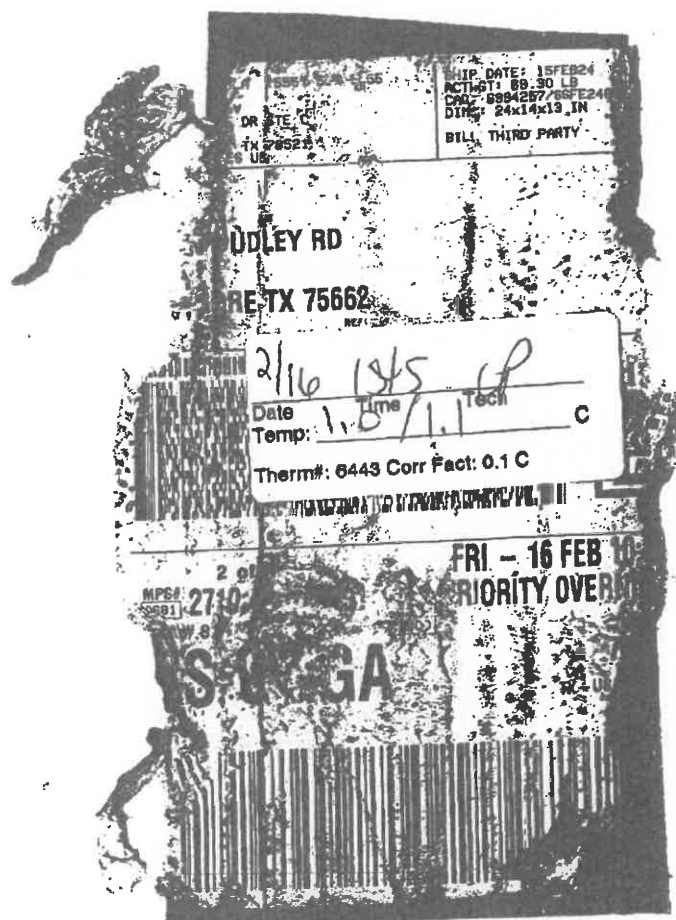
* Collected by: Wastewater Operator. Note: See the attached list of parameters that need to be analyzed.

800 Attached for Tracking and Temp

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1092218 CoC Print Group 001 of 001



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3
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1092218 CoC Print Group 001 of 001

ORIGIN ID: MRLA (555) 555-5555
ANA LAB / RGV
2401 VILLAGE DR STE C
BROWNSVILLE, TX 77821
UNITED STATES US

SHIP DATE: 15FEB24
ACTWT: 85.70 LB
CAD: 8894257/SSFE2460
DIM: 24x14x13 IN
BILL THIRD PARTY

Part 1: 15297-435 BRIDGE EXP 10/24

TO LOGIN
SPL
2600 DUDLEY RD

KILGORE TX 75662

(555) 555-5555



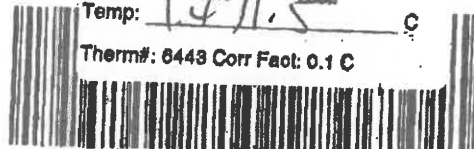
5 of 8
MP# 2710 4271 3883
Met# 8171 2101 6147

FRI - 16 FEB 10:30A
PRIORITY OVERNIGHT
AHS
75662
SHV

XS

2/16 1545 C
Date Time Temp: 1.4/11.5 C

Therm#: 8443 Corr Fact: 0.1 C



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Project
1092210

MCA8-R

City of McAllen Waste Water
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McAllen, TX 78503

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10:14

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1092210_r03_03_ProjectResults	SPL Kilgore Project P:1092210 C:MCA8 Project Results t:304	4
1092210_r10_05_ProjectQC	SPL Kilgore Project P:1092210 C:MCA8 Project Quality Control Groups	9
1092210_r99_09_CoC__1_of_1	SPL Kilgore CoC MCA8 1092210_1_of_1	2
Total Pages:		16

Email: Kilgore.projectmanager@spl-inc.com



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SAMPLE CROSS REFERENCE

Project
1092210

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City of McAllen Waste Water
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 McAllen, TX 78503-

Sample	Sample ID	Taken	Time	Received
2273873	EFFLUENT	02/15/2024	06:00:00	02/16/2024

Bottle 01 16 oz HNO3 Metals Plastic
 Bottle 02 H2SO4 to pH <2 Amber Glass 250 mL w/Teflon lined lid(4)
 Bottle 03 Glass /clean metals w/HCl
 Bottle 04 Prepared Bottle: ICP Preparation for Metals (Batch 1104868) Volume: 50.00000 mL <== Derived from 01 (50 ml)
 Bottle 05 Prepared Bottle: Mercury Preparation for Metals (Batch 1104881) Volume: 50.00000 mL <== Derived from 03 (47 ml)
 Bottle 06 Prepared Bottle: Phenol TRAACS Autosampler Vial (Batch 1104914) Volume: 6.00000 mL <== Derived from 02 (6 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	04	1104868	02/19/2024	1105315	02/20/2024
EPA 200.8 5.4	04	1104868	02/19/2024	1105540	02/21/2024
EPA 245.7 2	05	1104881	02/19/2024	1105094	02/19/2024
EPA 200.8 5.4	04	1104868	02/19/2024	1105547	02/21/2024
EPA 200.8 5.4	04	1104868	02/19/2024	1106124	02/23/2024
EPA 420.4 1	06	1104914	02/19/2024	1106065	02/25/2024

Sample	Sample ID	Taken	Time	Received
2274058	EFFLUENT	02/15/2024	02:00:00	02/19/2024

Bottle 01 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 02 NaOH to pH >12 Polyethylene 250 mL/amber
 Bottle 03 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1104816) Volume: 10.00000 mL <== Derived from 01 (5 ml)
 Bottle 04 Prepared Bottle: CN TRAACS Autosampler Vial (Batch 1104906) Volume: 10.00000 mL <== Derived from 01 (5 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
SM 4500-CN ⁻ G-2016			02/27/2024		02/27/2024
SM 4500-CN ⁻ G-2016	04	1104906	02/19/2024	1106335	02/26/2024
SM 4500-CN ⁻ E-2016	03	1104816	02/19/2024	1105073	02/20/2024

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Project

1092210

Printed: 02/27/2024

P-24-012

RESULTS

Sample Results

2273873		EFFLUENT		COMP 2/14 0800-2/15 0600				Received:		02/16/2024	
Non-Potable Water		Collected by: Client		City of McAllen Was				PO:			
Composite Stop 06:00		2/15/24		Taken: 02/15/2024		06:00:00					
		Prepared:		02/19/2024		12:33:44		Calculated		02/19/2024 12:33:44 CAL	
Parameter		Results		Units		RL		Flags		CAS Bottle	
LL Mercury Test Prep		Verified									
EPA 200.8 5.4		Prepared:		1104868 02/19/2024		10:30:00		Analyzed 1105315		02/20/2024 21:29:00 JC2	
Parameter		Results		Units		RL		Flags		CAS Bottle	
NELAC	Antimony, Total	<0.003		mg/L		0.003				7440-36-0 04	
NELAC	Arsenic, Total	0.00219		mg/L		0.001				7440-38-2 04	
NELAC	Cadmium, Total	<0.001		mg/L		0.001				7440-43-9 04	
NELAC	Lead, Total	<0.0005		mg/L		0.0005				7439-92-1 04	
NELAC	Molybdenum, Total	0.00895		mg/L		0.001				7439-98-7 04	
NELAC	Selenium, Total	0.00504		mg/L		0.005				7782-49-2 04	
NELAC	Silver, Total	<0.000276		mg/L		0.000276				7440-22-4 04	
EPA 200.8 5.4		Prepared:		1104868 02/19/2024		10:30:00		Analyzed 1105547		02/21/2024 14:55:00 CAS	
Parameter		Results		Units		RL		Flags		CAS Bottle	
NELAC	Thallium, Total	<0.000106		mg/L		0.000106				7440-28-0 04	
EPA 200.8 5.4		Prepared:		1104868 02/19/2024		10:30:00		Analyzed 1105540		02/21/2024 20:32:00 ESG	
Parameter		Results		Units		RL		Flags		CAS Bottle	
NELAC	Beryllium, Total	<0.0005		mg/L		0.0005				7440-41-7 04	
NELAC	Chromium, Total	0.00116		mg/L		0.001				7440-47-3 04	
NELAC	Copper, Total	<0.001		mg/L		0.001				7440-50-8 04	
NELAC	Nickel, Total	0.00807		mg/L		0.001				7440-02-0 04	
EPA 200.8 5.4		Prepared:		1104868 02/19/2024		10:30:00		Analyzed 1106124		02/23/2024 11:26:00 JC2	
Parameter		Results		Units		RL		Flags		CAS Bottle	
NELAC	Zinc, Total	0.031		mg/L		0.001				7440-66-6 04	



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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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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

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Project
1092210

Printed: 02/27/2024

2273873 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Non-Potable Water
Composite Stop 06:00 2/15/24
Collected by: Client
Taken: 02/15/2024

City of McAllen Was
06:00:00

PO:

EPA 245.72

Prepared: 1104881 02/19/2024 12:41:00 Analyzed 1105094 02/19/2024 16:21:00 RD1

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Mercury, Total (low level)	<5.00	ng/L	5.00		7439-97-6	05

EPA 420.41

Prepared: 1104914 02/19/2024 14:29:34 Analyzed 1106065 02/25/2024 09:13:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Phenolics, Total Recoverable	0.032	mg/L	0.005			06

2274058 EFFLUENT

Received: 02/19/2024

Non-Potable Water
Taken: 02/15/2024

Collected by: Client
City of McAllen Was
02:00:00

PO:

SM 4500-CN⁻ E-2016

Prepared: 1104816 02/19/2024 11:21:55 Analyzed 1105073 02/20/2024 07:05:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide, total	<0.005	mg/L	0.005			03

SM 4500-CN⁻ G-2016

Prepared: 02/27/2024 10:08:02 Calculated 02/27/2024 10:08:02 CAL

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide - Available/Amenable	<0.005	mg/L	0.005			

SM 4500-CN⁻ G-2016

Prepared: 1104906 02/19/2024 14:02:13 Analyzed 1106335 02/26/2024 08:18:00 AMB

Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC Cyanide After Chlorination	0.0092	mg/L	0.005			04

Sample Preparation

2273873 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Composite Stop 06:00 2/15/24 02/15/2024



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Project

1092210

Printed: 02/27/2024

2273873 EFFLUENT

COMP 2/14 0800-2/15 0600

Received: 02/16/2024

Composite Stop 06:00 2/15/24 02/15/2024

Prepared: 02/19/2024 12:33:44 Calculated 02/19/2024 12:33:44 CAL

Environmental Fee (per Project)

Verified

EPA 200.2 2.8

Prepared: 1104868 02/19/2024 10:30:00 Analyzed 1104868 02/19/2024 10:30:00 HLT

Liquid Metals Digestion

50/50

ml

01

EPA 245.7 2

Prepared: 1104881 02/19/2024 12:41:00 Analyzed 1104881 02/19/2024 12:41:00 RDI

Low Level Mercury Liquid Metals

50/47

ml

03

EPA 420.4 1

Prepared: 1104914 02/19/2024 14:29:34 Analyzed 1104914 02/19/2024 14:29:34 SRJ

Phenol Distillation

6/6

ml

02

2274058 EFFLUENT

Received: 02/19/2024

02/15/2024

SM 4500-CN⁻ C-2016

Prepared: 1104816 02/19/2024 11:21:55 Analyzed 1104816 02/19/2024 11:21:55 MEG

Cyanide Distillation

10/5

ml

01

SM 4500-CN⁻ C-2016

Prepared: 1104906 02/19/2024 14:02:13 Analyzed 1104906 02/19/2024 14:02:13 MEG

CN Dist After Chlorination

10/5

ml

01



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Project

1092210

Printed: 02/27/2024

Qualifiers:

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

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

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

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

Bill Peery, MS, VP Technical Services



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SM 4500-CN E-2016

Analytical Set 1105073

Analytical Set											
1105016											
Blank											
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>					
Cyanide, total	1104816	ND	0.00238	0.005	mg/L	126003545					
CCV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Cyanide, total		0.522	0.500	mg/L	104	90.0 - 110	126003544				
Cyanide, total		0.521	0.500	mg/L	104	90.0 - 110	126003554				
Cyanide, total		0.524	0.500	mg/L	105	90.0 - 110	126003565				
Cyanide, total		0.529	0.500	mg/L	106	90.0 - 110	126003576				
Cyanide, total		0.526	0.500	mg/L	105	90.0 - 110	126003587				
Duplicate											
<u>Parameter</u>	<u>Sample</u>		<u>Result</u>	<u>Unknown</u>		<u>Unit</u>		<u>RPD</u>	<u>Limit%</u>		
Cyanide, total	2273774		ND	ND		mg/L			20.0		
Cyanide, total	2273775		ND	ND		mg/L			20.0		
ICV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Cyanide, total		0.202	0.200	mg/L	101	90.0 - 110	126003543				
LCS Dup											
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>		<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Cyanide, total	1104816	0.396	0.388		0.400	90.0 - 110	99.0	97.0	mg/L	2.04	20.0
Mat. Spike											
<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Unknown</u>	<u>Known</u>	<u>Units</u>	<u>Recovery %</u>	<u>Limits %</u>	<u>File</u>			
Cyanide, total	2273774	0.389	ND	0.400	mg/L	97.2	90.0 - 110	126003550			
Cyanide, total	2273775	0.381	ND	0.400	mg/L	95.2	90.0 - 110	126003553			

Analytical Set 1106065

EPA 420.4 1

Analytical Set			1104914			Blank		
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>		
Phenolics, Total Recoverable	1104914	0.004	0.003	0.005	mg/L	126027068		
CCV								
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>	
Phenolics, Total Recoverable		0.197	0.200	mg/L	98.5	90.0 - 110	126027040	
Phenolics, Total Recoverable		0.192	0.200	mg/L	96.0	90.0 - 110	126027048	
Phenolics, Total Recoverable		0.195	0.200	mg/L	97.5	90.0 - 110	126027059	
Phenolics, Total Recoverable		0.186	0.200	mg/L	93.0	90.0 - 110	126027070	
Phenolics, Total Recoverable		0.192	0.200	mg/L	96.0	90.0 - 110	126027081	
Phenolics, Total Recoverable		0.189	0.200	mg/L	94.5	90.0 - 110	126027088	
Phenolics, Total Recoverable		0.189	0.200	mg/L	94.5	90.0 - 110	126027093	
Phenolics, Total Recoverable		0.188	0.200	mg/L	94.0	90.0 - 110	126027104	
Phenolics, Total Recoverable		0.190	0.200	mg/L	95.0	90.0 - 110	126027115	
Phenolics, Total Recoverable		0.192	0.200	mg/L	96.0	90.0 - 110	126027125	



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Duplicate										
<i>Parameter</i>	<i>Sample</i>	<i>Result</i>	<i>Unknown</i>		<i>Unit</i>		<i>RPD</i>		<i>Limit%</i>	
Phenolics, Total Recoverable	2273749	ND	ND		mg/L				20.0	
Phenolics, Total Recoverable	2273751	0.018	0.017		mg/L		5.71		20.0	
ICV										
<i>Parameter</i>	<i>Reading</i>	<i>Known</i>	<i>Units</i>	<i>Recover%</i>	<i>Limits%</i>		<i>File</i>			
Phenolics, Total Recoverable	0.215	0.200	mg/L	108	90.0 - 110		126027039			
LCS Dup										
<i>Parameter</i>	<i>PrepSet</i>	<i>LCS</i>	<i>LCSD</i>	<i>Known</i>	<i>Limits%</i>	<i>LCS%</i>	<i>LCSD%</i>	<i>Units</i>	<i>RPD</i>	<i>Limit%</i>
Phenolics, Total Recoverable	1104914	0.190	0.181	0.200	90.0 - 110	95.0	90.5	mg/L	4.85	20.0
Mat. Spike										
<i>Parameter</i>	<i>Sample</i>	<i>Spike</i>	<i>Unknown</i>	<i>Known</i>	<i>Units</i>	<i>Recovery %</i>	<i>Limits %</i>	<i>File</i>		
Phenolics, Total Recoverable	2273749	0.177	ND	0.200	mg/L	88.5	90.0 - 110	126027074	*	
Phenolics, Total Recoverable	2273751	0.100	0.017	0.200	mg/L	41.5	90.0 - 110	126027077	*	

Analytical Set

1106335

SM 4500-CN G-2016

Blank						
Parameter	PrepSet	Reading	MDL	MDL	Units	File
Cyanide After Chlorination	1104906	ND	0.00119	0.0025	mg/L	126037320
CCV						
Parameter	Reading	Known	Units	Recover%	Limits%	File
Cyanide After Chlorination	0.534	0.500	mg/L	107	90.0 - 110	126037311
Cyanide After Chlorination	0.536	0.500	mg/L	107	90.0 - 110	126037321
Cyanide After Chlorination	0.546	0.500	mg/L	109	90.0 - 110	126037331
Cyanide After Chlorination	0.548	0.500	mg/L	110	90.0 - 110	126037338
Cyanide After Chlorination	0.549	0.500	mg/L	110	90.0 - 110	126037339
Cyanide After Chlorination	0.531	0.500	mg/L	106	90.0 - 110	126037340
Cyanide After Chlorination	0.530	0.500	mg/L	106	90.0 - 110	126037341
Cyanide After Chlorination	0.531	0.500	mg/L	106	90.0 - 110	126037342
Cyanide After Chlorination	0.527	0.500	mg/L	105	90.0 - 110	126037343
Cyanide After Chlorination	0.529	0.500	mg/L	106	90.0 - 110	126037344
Cyanide After Chlorination	0.525	0.500	mg/L	105	90.0 - 110	126037345

Duplicate										
<u>Parameter</u>	<u>Sample</u>	<u>Result</u>	<u>Unknown</u>	<u>Unit</u>	<u>RPD</u>	<u>*</u>	<u>Limit%</u>			
Cyanide After Chlorination	2273142	0.0028	0.0038	mg/L	30.3	*	20.0			
Cyanide After Chlorination	2273191	0.0048	0.004	mg/L	18.2		20.0			
ICV										
<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Cyanide After Chlorination	0.216	0.200	mg/L	108	90.0 - 110	126037310				
LCS Dup										
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Cyanide After Chlorination	1104906	0.217	0.207	0.200	90.0 - 110	108	104	mg/L	4.72	20.0



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City of McAllen Waste Water
R. Saenz/J. Espinoza
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Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Cyanide After Chlorination	2273142	0.430	0.0038	0.400	mg/L	107	90.0 - 110	126037326
Cyanide After Chlorination	2273191	0.438	0.004	0.400	mg/L	108	90.0 - 110	126037329

EPA 245.7 2

Analytical Set 1105094

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Mercury, Total (low level)	1104881	ND	1.20	5.00	ng/L	126003949

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	24.1	25.0	ng/L	96.4	87.0 - 113	126003947
Mercury, Total (low level)	24.4	25.0	ng/L	97.6	87.0 - 113	126003960
Mercury, Total (low level)	23.2	25.0	ng/L	92.8	87.0 - 113	126003971
Mercury, Total (low level)	24.1	25.0	ng/L	96.4	87.0 - 113	126003982
Mercury, Total (low level)	23.9	25.0	ng/L	95.6	87.0 - 113	126003988

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	51.9	50.0	ng/L	104	90.0 - 110	126003944

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Mercury, Total (low level)	26.7	25.0	ng/L	107	90.0 - 110	126003945

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Mercury, Total (low level)	1104881	19.5	19.7	25.0	76.0 - 115	78.0	78.8	ng/L	1.02	50.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury, Total (low level)	2273585	21.5	21.3	3.48	26.6	63.0 - 111	67.7	67.0	ng/L	1.12	18.0
Mercury, Total (low level)	2273761	12.6	12.3	ND	26.6	63.0 - 111	47.4 *	46.2 *	ng/L	2.41	18.0

EPA 200.8 5.4

Analytical Set 1105315

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Antimony, Total	1104868	ND	0.000847	0.003	mg/L	126009659
Arsenic, Total	1104868	ND	0.000902	0.001	mg/L	126009659
Cadmium, Total	1104868	ND	0.00012	0.001	mg/L	126009659
Lead, Total	1104868	ND	0.000549	0.001	mg/L	126009659
Molybdenum, Total	1104868	0.000287	0.000155	0.001	mg/L	126009659
Selenium, Total	1104868	0.00407	0.00294	0.005	mg/L	126009659
Silver, Total	1104868	ND	0.000276	0.001	mg/L	126009659
Thallium, Total	1104868	ND	0.000966	0.001	mg/L	126009659

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
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CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Antimony, Total	0.0474	0.05	mg/L	94.8	90.0 - 110	126009572
Antimony, Total	0.0476	0.05	mg/L	95.2	90.0 - 110	126009582
Antimony, Total	0.0477	0.05	mg/L	95.4	90.0 - 110	126009591
Antimony, Total	0.0458	0.05	mg/L	91.6	90.0 - 110	126009658
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	126009669
Antimony, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	126009680
Antimony, Total	0.0465	0.05	mg/L	93.0	90.0 - 110	126009690
Arsenic, Total	0.0506	0.05	mg/L	101	90.0 - 110	126009572
Arsenic, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	126009618
Arsenic, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126009627
Arsenic, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126009637
Arsenic, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	126009658
Arsenic, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	126009669
Arsenic, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	126009680
Arsenic, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	126009690
Cadmium, Total	0.0504	0.05	mg/L	101	90.0 - 110	126009572
Cadmium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	126009658
Cadmium, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126009669
Cadmium, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126009680
Cadmium, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126009690
Lead, Total	0.0514	0.05	mg/L	103	90.0 - 110	126009572
Lead, Total	0.0513	0.05	mg/L	103	90.0 - 110	126009618
Lead, Total	0.0518	0.05	mg/L	104	90.0 - 110	126009627
Lead, Total	0.0507	0.05	mg/L	101	90.0 - 110	126009637
Lead, Total	0.0506	0.05	mg/L	101	90.0 - 110	126009658
Lead, Total	0.0509	0.05	mg/L	102	90.0 - 110	126009669
Lead, Total	0.0516	0.05	mg/L	103	90.0 - 110	126009680
Lead, Total	0.0499	0.05	mg/L	99.8	90.0 - 110	126009572
Molybdenum, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126009658
Molybdenum, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126009669
Molybdenum, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126009680
Molybdenum, Total	0.0492	0.05	mg/L	98.4	90.0 - 110	126009690
Selenium, Total	0.0515	0.05	mg/L	103	90.0 - 110	126009572
Selenium, Total	0.0536	0.05	mg/L	107	90.0 - 110	126009658
Selenium, Total	0.0508	0.05	mg/L	102	90.0 - 110	126009669
Selenium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126009680
Selenium, Total	0.0522	0.05	mg/L	104	90.0 - 110	126009690
Silver, Total	0.0543	0.05	mg/L	109	90.0 - 110	126009572
Silver, Total	0.0518	0.05	mg/L	104	90.0 - 110	126009658
Silver, Total	0.0522	0.05	mg/L	104	90.0 - 110	126009669
Silver, Total	0.0518	0.05	mg/L	104	90.0 - 110	126009680
Silver, Total	0.0516	0.05	mg/L	103	90.0 - 110	126009690

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
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QUALITY CONTROL



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
1092210

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ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Antimony, Total	0.0481	0.05	mg/L	96.2	90.0 - 110	126009567
Arsenic, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	126009567
Cadmium, Total	0.0501	0.05	mg/L	100	90.0 - 110	126009567
Lead, Total	0.0508	0.05	mg/L	102	90.0 - 110	126009567
Molybdenum, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126009567
Selenium, Total	0.0505	0.05	mg/L	101	90.0 - 110	126009567
Silver, Total	0.0538	0.05	mg/L	108	90.0 - 110	126009567

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Antimony, Total	1104868	0.481	0.493	0.500	85.0 - 115	96.2	98.6	mg/L	2.46	20.0
Arsenic, Total	1104868	0.470	0.480	0.500	85.0 - 115	94.0	96.0	mg/L	2.11	20.0
Cadmium, Total	1104868	0.244	0.250	0.250	85.0 - 115	97.6	100	mg/L	2.43	20.0
Lead, Total	1104868	0.504	0.513	0.500	85.0 - 115	101	103	mg/L	1.77	20.0
Molybdenum, Total	1104868	0.498	0.510	0.500	85.0 - 115	99.6	102	mg/L	2.38	20.0
Selenium, Total	1104868	0.479	0.492	0.500	85.0 - 115	95.8	98.4	mg/L	2.68	20.0
Silver, Total	1104868	0.103	0.106	0.100	85.0 - 115	103	106	mg/L	2.87	20.0
Thallium, Total	1104868	0.503	0.508	0.500	85.0 - 115	101	102	mg/L	0.989	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lead, Total	0.000958	0.001	mg/L	95.8	25.0 - 175	126009568

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Antimony, Total	2273846	0.486	0.502	ND	0.500	70.0 - 130	97.2	100	mg/L	3.24	20.0
Cadmium, Total	2273846	0.244	0.250	ND	0.250	70.0 - 130	97.6	100	mg/L	2.43	20.0
Lead, Total	2273846	0.503	0.514	ND	0.500	70.0 - 130	101	103	mg/L	2.16	20.0
Molybdenum, Total	2273846	0.503	0.523	0.00157	0.500	70.0 - 130	100	104	mg/L	3.91	20.0
Silver, Total	2273846	0.103	0.106	ND	0.100	70.0 - 130	103	106	mg/L	2.87	20.0
Thallium, Total	2273846	0.499	0.510	ND	0.500	70.0 - 130	99.8	102	mg/L	2.18	20.0
Arsenic, Total	2273984	0.485	0.483	0.000984	0.500	70.0 - 130	96.8	96.4	mg/L	0.414	20.0
Selenium, Total	2273984	0.451	0.451	0.0045	0.500	70.0 - 130	89.3	89.3	mg/L	0	20.0
Silver, Total	2273984	0.101	0.101	ND	0.100	70.0 - 130	101	101	mg/L	0	20.0

EPA 200.8 5.4

Analytical Set 1105540

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	File
Beryllium, Total	1104868	0.000122	0.0000605	0.0005	mg/L	126015546
Chromium, Total	1104868	ND	0.0005	0.001	mg/L	126015546
Copper, Total	1104868	ND	0.0005	0.001	mg/L	126015546
Molybdenum, Total	1104868	0.000939	0.00025	0.0005	mg/L	126015546
Nickel, Total	1104868	ND	0.0005	0.001	mg/L	126015546
Selenium, Total	1104868	0.000976	0.000728	0.002	mg/L	126015546



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
1092210

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CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Beryllium, Total	0.0508	0.05	mg/L	102	90.0 - 110	126015513
Beryllium, Total	0.0531	0.05	mg/L	106	90.0 - 110	126015545
Beryllium, Total	0.0531	0.05	mg/L	106	90.0 - 110	126015550
Beryllium, Total	0.0509	0.05	mg/L	102	90.0 - 110	126015560
Beryllium, Total	0.0462	0.05	mg/L	92.4	90.0 - 110	126015598
Chromium, Total	0.0485	0.05	mg/L	97.0	90.0 - 110	126015513
Chromium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126015526
Chromium, Total	0.047	0.05	mg/L	94.0	90.0 - 110	126015532
Chromium, Total	0.047	0.05	mg/L	94.0	90.0 - 110	126015534
Chromium, Total	0.0482	0.05	mg/L	96.4	90.0 - 110	126015537
Chromium, Total	0.0467	0.05	mg/L	93.4	90.0 - 110	126015541
Chromium, Total	0.0463	0.05	mg/L	92.6	90.0 - 110	126015545
Chromium, Total	0.0451	0.05	mg/L	90.2	90.0 - 110	126015550
Chromium, Total	0.0473	0.05	mg/L	94.6	90.0 - 110	126015560
Chromium, Total	0.0469	0.05	mg/L	93.8	90.0 - 110	126015598
Copper, Total	0.0508	0.05	mg/L	102	90.0 - 110	126015513
Copper, Total	0.0505	0.05	mg/L	101	90.0 - 110	126015526
Copper, Total	0.0487	0.05	mg/L	97.4	90.0 - 110	126015532
Copper, Total	0.0502	0.05	mg/L	100	90.0 - 110	126015534
Copper, Total	0.0488	0.05	mg/L	97.6	90.0 - 110	126015537
Copper, Total	0.0466	0.05	mg/L	93.2	90.0 - 110	126015541
Copper, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126015545
Copper, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126015550
Copper, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	126015560
Copper, Total	0.0505	0.05	mg/L	101	90.0 - 110	126015598
Nickel, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	126015513
Nickel, Total	0.0494	0.05	mg/L	98.8	90.0 - 110	126015526
Nickel, Total	0.0503	0.05	mg/L	101	90.0 - 110	126015532
Nickel, Total	0.0504	0.05	mg/L	101	90.0 - 110	126015534
Nickel, Total	0.0515	0.05	mg/L	103	90.0 - 110	126015537
Nickel, Total	0.0507	0.05	mg/L	101	90.0 - 110	126015541
Nickel, Total	0.0512	0.05	mg/L	102	90.0 - 110	126015545
Nickel, Total	0.0505	0.05	mg/L	101	90.0 - 110	126015550
Nickel, Total	0.0513	0.05	mg/L	103	90.0 - 110	126015560
Nickel, Total	0.0516	0.05	mg/L	103	90.0 - 110	126015598

ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>
Beryllium, Total	0.0507	0.05	mg/L	101	90.0 - 110	126015506
Chromium, Total	0.0502	0.05	mg/L	100	90.0 - 110	126015506
Copper, Total	0.0516	0.05	mg/L	103	90.0 - 110	126015506
Nickel, Total	0.0511	0.05	mg/L	102	90.0 - 110	126015506

LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1092210

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LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Beryllium, Total	1104868	0.208	0.211	0.200	85.0 - 115	104	106	mg/L	1.43	20.0
Chromium, Total	1104868	0.539	0.538	0.500	85.0 - 115	108	108	mg/L	0.186	20.0
Copper, Total	1104868	0.481	0.489	0.500	85.0 - 115	96.2	97.8	mg/L	1.65	20.0
Molybdenum, Total	1104868	0.503	0.532	0.500	85.0 - 115	101	106	mg/L	5.60	20.0
Nickel, Total	1104868	0.501	0.499	0.500	85.0 - 115	100	99.8	mg/L	0.400	20.0
Selenium, Total	1104868	0.498	0.510	0.500	85.0 - 115	99.6	102	mg/L	2.38	20.0

MRL Check

Parameter	Reading	Known	Units	Recover%	Limits%	File
Copper, Total	0.00104	0.001	mg/L	104	25.0 - 175	126015507

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Beryllium, Total	2273984	0.208	0.211	ND	0.200	70.0 - 130	104	106	mg/L	1.43	20.0
Chromium, Total	2273984	0.527	0.537	0.00367	0.500	70.0 - 130	105	107	mg/L	1.89	20.0
Copper, Total	2273984	0.497	0.512	0.0344	0.500	70.0 - 130	92.5	95.5	mg/L	3.19	20.0
Molybdenum, Total	2273984	0.542	0.567	0.00588	0.500	70.0 - 130	107	112	mg/L	4.56	20.0
Nickel, Total	2273984	0.476	0.493	0.00198	0.500	70.0 - 130	94.8	98.2	mg/L	3.52	20.0
Selenium, Total	2273984	0.470	0.472	ND	0.500	70.0 - 130	94.0	94.4	mg/L	0.425	20.0

Analytical Set 1105547

EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Chromium, Total	1104868	ND	0.000621	0.001	mg/L	126016039
Copper, Total	1104868	ND	0.00155	0.00155	mg/L	126016039
Nickel, Total	1104868	ND	0.00112	0.00112	mg/L	126016039
Thallium, Total	1104868	ND	0.000106	0.001	mg/L	126016039

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Thallium, Total	0.0489	0.05	mg/L	97.8	90.0 - 110	126016037
Thallium, Total	0.0511	0.05	mg/L	102	90.0 - 110	126016038
Thallium, Total	0.054	0.05	mg/L	108	90.0 - 110	126016049
Thallium, Total	0.0454	0.05	mg/L	90.8	90.0 - 110	126016052
Thallium, Total	0.0458	0.05	mg/L	91.6	90.0 - 110	126016053

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Thallium, Total	0.049	0.05	mg/L	98.0	90.0 - 110	126016030

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	1104868	0.517	0.506	0.500	85.0 - 115	103	101	mg/L	2.15	20.0
Copper, Total	1104868	0.529	0.505	0.500	85.0 - 115	106	101	mg/L	4.64	20.0
Nickel, Total	1104868	0.516	0.491	0.500	85.0 - 115	103	98.2	mg/L	4.97	20.0
Thallium, Total	1104868	0.520	0.497	0.500	85.0 - 115	104	99.4	mg/L	4.52	20.0



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

Project
1092210

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LDR

Parameter	Reading	Known	Units	Recover%	Limits%	File
Chromium, Total	10.2	10	mg/L	102	90.0 - 110	126016034
Copper, Total	9.95	10	mg/L	99.5	90.0 - 110	126016034
Nickel, Total	9.78	10	mg/L	97.8	90.0 - 110	126016034
Thallium, Total	10.1	10	mg/L	101	90.0 - 110	126016034

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chromium, Total	2273984	0.573	0.459	0.00447	0.500	70.0 - 130	114	90.9	mg/L	22.3 *	20.0
Copper, Total	2273984	0.587	0.483	0.0421	0.500	70.0 - 130	109	88.2	mg/L	21.1 *	20.0
Nickel, Total	2273984	0.545	0.429	0.0019	0.500	70.0 - 130	109	85.4	mg/L	23.9 *	20.0
Thallium, Total	2273984	0.555	0.456	ND	0.500	70.0 - 130	111	91.2	mg/L	19.6	20.0

Analytical Set 1106124

EPA 200.8 5.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Thallium, Total	1104868	ND	0.000966	0.001	mg/L	126031291
Zinc, Total	1104868	ND	0.000844	0.001	mg/L	126031291

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc, Total	0.0512	0.05	mg/L	102	90.0 - 110	126031293
Zinc, Total	0.0507	0.05	mg/L	101	90.0 - 110	126031304
Zinc, Total	0.0496	0.05	mg/L	99.2	90.0 - 110	126031312
Zinc, Total	0.0523	0.05	mg/L	105	90.0 - 110	126031384
Zinc, Total	0.0525	0.05	mg/L	105	90.0 - 110	126031393
Zinc, Total	0.0519	0.05	mg/L	104	90.0 - 110	126031404
Zinc, Total	0.0533	0.05	mg/L	107	90.0 - 110	126031415
Zinc, Total	0.0526	0.05	mg/L	105	90.0 - 110	126031424

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Zinc, Total	0.051	0.05	mg/L	102	90.0 - 110	126031277

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Thallium, Total	1104868	0.492	0.498	0.500	85.0 - 115	98.4	99.6	mg/L	1.21	20.0
Zinc, Total	1104868	0.491	0.500	0.500	85.0 - 115	98.2	100	mg/L	1.82	20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Thallium, Total	2273984	0.477	0.477	ND	0.500	70.0 - 130	95.4	95.4	mg/L	0	20.0
Zinc, Total	2273984	0.525	0.535	0.0796	0.500	70.0 - 130	89.1	91.1	mg/L	2.22	20.0

* Out RPD is Relative Percent Difference: $\text{abs}(r_1 - r_2) / \text{mean}(r_1, r_2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$



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QUALITY CONTROL



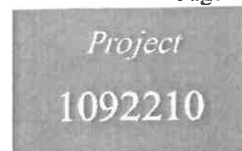
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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503



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Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); MRL Check - Minimum Reporting Limit Check Std; LDR - Linear Dynamic Range Standard



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City of McAllen
P.O. Box 220 / 4100 Idela
McAllen, Texas 78505
Phone (956) 681-1764
Fax (956) 681-1754

Wastewater Laboratory

CHAIN OF CUSTODY

2273873

Facility: South Wastewater Plant 4100 Idela Ave., McAllen, Tx.		Sampling Location: CONTROL POINT 001		Date Collected: 2 / 14 - 15 / 24		Samplers: Refer to "Proportioned by flow" log	
Sample & Identification No.	Sample Date/Time	Sample Type Comp/Grab	# of sample containers	Sample Matrix	Preservative	Analysis	Comments
EFFLUENT	Start: 2/14/24 @ 06:00 End: 2/15 @ 06:00	24hr	(1) 500 ml plastic Lot # 2088 0.5 BB	Liquid	HNO ₃	From Table III: Total Se, Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Ag, Ti, Zn, and Mo.	Analyze according to 40CFR 136 Methods Use the more sensitive method
24-024	Start: 2/14/24 @ 06:00 End: 2/15/24 @ 06:00	24 hr	(1) 500ml glass bottle Lot # 6225	Liquid	HCl	Low level Mercury(Hg) EPA Method 245.72	Analyze according to 40CFR 136 Methods Use the more sensitive method
EFFLUENT	Start: 2/14/24 @ 06:00 End: 2/15/24 @ 06:00	24 hr.	(1) 250 ml Amber glass bottle Lot # P324604 AB	Liquid	H ₂ SO ₄	From Table III: Total Phenols	Analyze according to 40CFR 136 Methods Use the more sensitive method
24-025	Start: 2/14/24 @ 06:00 End: 2/15/24 @ 06:00	24 hr.	(2) 250 ml Amber plastic bottle Lot # P324604 AB	Liquid	NaOH	From Table III: Cyanide, Cyanide Amenable to Chlorination and Also analyze total Cyanide	Analyze according to 40CFR 136 Methods Use the more sensitive method
24-026	Start: 2/14/24 @ 06:00 End: 2/15/24 @ 06:00, 14:00, 20:00, 02:00	* Part 4	Lot # P324604 AB 14326507 BB	Liquid			
24-024, 025, 026	Relinquished by: Michael Lopez			DATE: 2-15-24 TIME: 7:45		Received by: Jose A	Date: 2-15-24 Time: 7:45
24-024, 025, 026	Relinquished by: [Signature]			DATE: 2/15/24 TIME: 14:15		Received by: SPL LAB Carrier Frank Gamaz III - SPL, Inc.	Date: 2-15-24 Time: 14:15
	Relinquished by: Frank Gamaz III - SPL, Inc.	Received by: Carrier FedEx		DATE: 2-15-24 TIME: 17:30		Received by: SPL Lab Killgore, Tx. Temperature Custody Seal broken: yes	Date: 2/16/24 Time: 0940

Remarks: Note on Selenium use method 200.8 unless result is above 0.01 mg/L
Use method SM 3114B.

Project No. P-24-012
TPOSS Permit, 40 CFR, Part 122, Appendix D, Table III
Please meet the MDL's specified on contract

MAPU-R 108

803 Attached for Tracking # and Temp

1092210 CoC Print Group 001 of 001

ORIGIN ID: MRLA (555) 555-5555
 ANA LAB / RGV
 2401 VILLAGE DR STE C
 BROWNSVILLE, TX 77821
 UNITED STATES US

SHIP DATE: 15FEB24
 ACTWT: 65.70 LB
 CAD: 8994257/SSFE2460
 DIMS: 24x14x13 IN
 BILL THIRD PARTY

TO **LOGIN**
SPL
2600 DUDLEY RD
KILGORE TX 75662

FedEx
Express


6 of 6
 MP81 2710 4271 3883
 Metr# 8171 3101 6247

FRI - 16 FEB 10:30A
PRIORITY OVERNIGHT
AHS
75662
SHV

XS 2 116 1545 cl

Date Time Tech
 Temp: 14/11.5 C

Therm#: 6443 Corr Fact: 0.1 C

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
1092928

MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503

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10:14

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1092928_r02_01_ProjectSamples	SPL Kilgore Project P:1092928 C:MCA8 Project Sample Cross Reference t:304	1
1092928_r03_03_ProjectResults	SPL Kilgore Project P:1092928 C:MCA8 Project Results t:304	2
1092928_r10_05_ProjectQC	SPL Kilgore Project P:1092928 C:MCA8 Project Quality Control Groups	2
1092928_r99_09_CoC__1_of_1	SPL Kilgore CoC MCA8 1092928_1_of_1	2
Total Pages:		7

Email: Kilgore.projectmanager@spl-inc.com



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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
 1092928

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City of McAllen Waste Water
 R. Saenz/J. Espinoza
 P.O. Box 220
 4100 Idela
 McAllen, TX 78503-

Sample	Sample ID	Taken	Time	Received
2275672	EFFLUENT 24-057	02/22/2024	06:00:00	02/23/2024

Bottle 01 Client supplied plastic

Bottle 02 NaOH prepared 250 ml Plastic Cr6F

Bottle 03 16 oz HNO3 Metals Plastic

Bottle 04 Prepared Bottle: ICP Preparation for Metals (Batch 1106160) Volume: 50.00000 mL <== Derived from 03 (50 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 200.8 5.4	04	1106160	02/26/2024	1106327	02/26/2024
Calculation			02/27/2024		02/27/2024
SM 3500-Cr B-2011	01	1106187	02/23/2024	1106187	02/23/2024
SM 3500-Cr B-2011			02/26/2024		02/26/2024

Email: Kilgore.projectmanager@spl-inc.com



Report Page 2 of 8

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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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

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Project

1092928

Printed: 02/27/2024

P-24-025

RESULTS

Sample Results

2275672		EFFLUENT 24-057		COMP 2/21 0800-2/22 0600		Received: 02/23/2024	
Non-Potable Water		Collected by: Client		City of McAllen Was		PC:	
Composite Stop 06:00		2/22/24		Taken: 02/22/2024		06:00:00	
Calculation		Prepared: 02/27/2024		10:08:15		Calculated 02/27/2024	
						10:08:15	
						CAL	
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC Trivalent Chromium		0.00018	mg/L	0.003	J	16065-83-1	
EPA 200.8 5.4		Prepared: 1106160		02/26/2024		08:30:00	
						Analyzed 1106327	
						02/26/2024	
						17:04:00	
						JC2	
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC Chromium, Total		0.00318	mg/L	0.001		7440-47-3	04
SM 3500-Cr B-2011		Prepared: 02/26/2024		14:40:30		Calculated 02/26/2024	
						14:40:30	
						CAL	
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC Hexavalent Cr, Field Preserved		Verified				18540-29-9	
SM 3500-Cr B-2011		Prepared: 1106187		02/23/2024		12:30:00	
						Analyzed 1106187	
						02/23/2024	
						12:30:00	
						ALB	
Parameter		Results	Units	RL	Flags	CAS	Bottle
NELAC Hexavalent Chromium		<3.00	ug/L	3.00	H	18540-29-9	01

Sample Preparation

2275672		EFFLUENT 24-057		COMP 2/21 0800-2/22 0600		Received:		02/23/2024				
Composite Stop 06:00		2/22/24		02/22/2024								
Prepared:				02/26/2024		14:40:30		Calculated		02/26/2024	14:40:30	CAL
Environmental Fee (per Project)				Verified								



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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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MCA8-R

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City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project

1092928

Printed: 02/27/2024

2275672

EFFLUENT 24-057

COMP 2/21 0800-2/22 0600

Received: 02/23/2024

Composite Stop 06:00 2/22/24 02/22/2024

Prepared: 1105956 02/23/2024 13:00:00 Analyzed 1105956 02/23/2024 13:00:00 RDT

Bottle Poured Up in Lab

03

EPA 200.2.2.8

Prepared: 1106160 02/26/2024 08:30:00 Analyzed 1106160 02/26/2024 08:30:00 ESG

Liquid Metals Digestion

50/50

ml

03

Qualifiers:

J - Analyte detected below quantitation limit

H - Sample started outside recommended holding time

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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QUALITY CONTROL



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
1092928

Printed 02/27/2024

SM 3500-Cr B-2011

Analytical Set **1106187**

				Blank							
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>					
Hexavalent Chromium	1106187	ND	0.550	3.00	ug/L	126033694					
Hexavalent Chromium	1106187	ND	0.550	3.00	ug/L	126033705					
CCV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Hexavalent Chromium		78.8	80.0	ug/L	98.5	90.0 - 110	126033695				
Hexavalent Chromium		78.8	80.0	ug/L	98.5	90.0 - 110	126033706				
LCS Dup											
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>		<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Hexavalent Chromium	1106187	78.8	78.8		80.0	85.0 - 115	98.5	98.5	ug/L	0	15.0
MSD											
<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Hexavalent Chromium	2275672	62.7	61.6	ND	80.0	70.0 - 130	78.4	77.0	ug/L	1.77	20.0

Analytical Set **1106327**

EPA 200.8 5.4

		Blank									
<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>					
Chromium, Total	1106160	0.000585	0.000392	0.001	mg/L	126036847					
CCV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Chromium, Total		0.0528	0.05	mg/L	106	90.0 - 110	126036850				
Chromium, Total		0.0513	0.05	mg/L	103	90.0 - 110	126036861				
Chromium, Total		0.0513	0.05	mg/L	103	90.0 - 110	126036871				
Chromium, Total		0.0512	0.05	mg/L	102	90.0 - 110	126036882				
Chromium, Total		0.0508	0.05	mg/L	102	90.0 - 110	126036888				
ICV											
<u>Parameter</u>		<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>File</u>				
Chromium, Total		0.0518	0.05	mg/L	104	90.0 - 110	126036823				
LCS Dup											
<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>		<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chromium, Total	1106160	0.522	0.525		0.500	85.0 - 115	104	105	mg/L	0.573	20.0
MSD											
<u>Parameter</u>	<u>Sample</u>	<u>MS</u>	<u>MSD</u>	<u>UNK</u>	<u>Known</u>	<u>Limits</u>	<u>MS%</u>	<u>MSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Chromium, Total	2275949	0.458	0.473	0.00102	0.500	70.0 - 130	91.4	94.4	mg/L	3.23	20.0

* Out RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$



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QUALITY CONTROL



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MCA8-R

City of McAllen Waste Water
R. Saenz/J. Espinoza
P.O. Box 220
4100 Idela
McAllen, TX 78503-

Project
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Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); 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.); ICV - Initial Calibration Verification



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1092928 CoC Print Group 001 of 001

City of McAllen
P.O. Box 220 / 4100 Isla
McAllen, Texas 78505
Phone (956) 681-1764
Fax: (956) 681-1754

Wastewater Laboratory
CHAIN OF CUSTODY

Wastewater Laboratory

MCAB

Sample & Identification No.		Sample Date/Time	Sample Type Comp. Grab	# of sample containers	Sample Matrix	Preservative	Analysis	Comments
24 - 057		Start: 2/21/24 @ 8:00 am End: 2/22/24 @ 6:00	X	(1) 500 ml PLASTIC Lot # 092021-2407	Liquid	ICE	Analyze Cr (Hex) and also Cr (Tr) 2275672	Analyze according to 40CFR 136 Methods Use the more sensitive method
24 - 057								Analyze according to 40CFR 136 Methods Use the more sensitive method
24 - 057								Analyze according to 40CFR 136 Methods Use the more sensitive method
24 - 057								Analyze according to 40CFR 136 Methods Use the more sensitive method
24 - 057		Relinquished by: <i>[Signature]</i> Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02
24 - 057		Relinquished by: <i>[Signature]</i> Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02
24 - 057		Relinquished by: <i>[Signature]</i> Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02	Received by: SPICAR Date: 2/22/24 Time: 11:02

Remarks: Permit Requirements: Non-Priority Pollutants
Please use MAL's and approved methods. Meet MDL's specified on contract.

Project No. P-24 - 025
Collected by: Wastewater Operator.

MPU - 111
Note: See the attached list of parameters that need to be analyzed
* Not preserved in RCU JMS
2/22/24 15:30

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2
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4

2 of 2

1092928 CoC Print Group 001 of 001

Origin: 10111 (555) 555
2401 VILLAGE DRIVE C
BROWNSVILLE, TX 77821
UNITED STATES

SHIP DATE: 22 FEB 24
ACTIVITY: 25 FEB
CNO: 844 257 99FE2500
DIMS: 24x39x19 IN
BILL TO: THIRD PARTY

TO: LOGIN
SPL
2600 DUDLEY RD
KILGORE TX 75129

(555) 555-5555

2123 1512 JLG
Date Time Tech
Temp: 02/10.3 C

Therm#: 6443 Corr Fact: 0.1 C

2/13 1002 1484
Metric: 8171 3101 080073

XS GGGA

FedEx
Express
E

FEB 10:30A
PRIORITY OVERNIGHT
AHS
75662
TX-US SHV





McALLEN

PUBLIC UTILITY

CHARLES E. AMOS, Chairman
ERNEST R. WILLIAMS, Vice-Chairman
ALBERT CARDENAS, Trustee
RICARDO R. GODINEZ, Trustee
JAVIER VILLALOBOS, Ex-Officio Member

MARCO A. VEGA, P.E., General Manager

February 11, 2025

Ms. Rainee Trevino
Texas Commission on Environmental Quality
Water Quality Division
Application Review and Processing Team (MC148)
P. O. Box 13087
Austin, Texas 78711-3087

**Re: Texas TPDES Domestic Wastewater Permit Renewal Application
City of McAllen, McAllen Public Utility
TPDES Permit No. WQ0010633003, (TX0047449) (RN101720977; CN600343743)**

Dear Rainee Trevino:

Please accept the following responses to the deficiency letter addressed to Mr. Marco A. Vega, P. E., dated February 4, 2025 regarding our TPDES Domestic Wastewater Permit Renewal Application for the City of McAllen, McAllen Public Utility South Wastewater Treatment Plant.

1. Comment:

Thank you for submitting the Domestic Wastewater Permit Application. The application submitted is an outdated application. Outdated versions of the applications and forms cannot be processed. Please resubmit the application on the most current version of the application (TCEQ form number 10053) located on our website.

Response:

TCEQ Form 10053 Updated (10/17/2024) attached.

2. Comment:

Administrative Report 1.0, Section 1, Application Fees: The application indicates that a processing fee of \$2,015.00 was submitted. However, we were unable to verify payment of the application renewal fee. Please submit a complete payment to: TCEQ, Financial Administration Division (MC214), P.O. Box 13088, Austin, Texas 78711-3088. The application cannot be declared administratively complete until the processing fee has been received.

Response:

Payment verified via phone call on February 05, 2025.

3. Comment:

Core Data Form, Section II, Item 17:

Please provide an updated Core Data Form with an email address.

Response:

Core Data Form (CDF), Section II, Item 17 email address was entered in the attached revised form.

4. Comment:

USGS Topographic Map:

Please provide a legible map that clearly labels the applicant's property boundary, the wastewater treatment boundary, the point of discharge, the discharge route for at least three miles downstream or until it reaches a classified segment, and one-mile radius.

Response:

The requested information attached in updated USGS Maps.

5. Comment:

Plain Language Summary (PLS): Please submit a revised PLS both in English and Spanish that has the flow. The summaries submitted do not have the flow.

Response:

The requested flow information added on updated PLS forms attached.

6. Comment:

The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. City of McAllen, 4100 Idela Avenue, McAllen, Texas 78503, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010633003 (EPA I.D. No. TX0047449) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 10,000,000 gallons per day. The domestic wastewater treatment facility is located at 4100 Idela Avenue, in the city of McAllen, in Hidalgo County, Texas 78503. The discharge route is from the plant site to an unnamed drainage ditch; thence to Main Floodway portion; thence to Arroyo Colorado Above Tidal. TCEQ received this application on January 29, 2025. The permit application will be available for viewing and copying at McAllen City Hall, Utility Administration Office, Second Floor, 1300 West Houston Avenue, McAllen, in Hidalgo 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=-98.275277,26.172222&level=18>

Further information may also be obtained from City of McAllen at the address stated above or by calling Mr. Marco Vega, P.E., General Manager, at 956-681-1630.

Response:

Staff found no errors on the portion of the Notice of Receipt and Intent to obtain a water quality permit provided. Please capitalize "City" on the highlighted word found in text above.

7. Comment:

The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

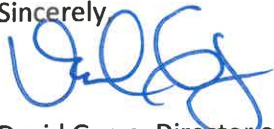
Response:

The requested Spanish NORI Word document attached via email.

Enclosed for your review and approval is the Revised Core Data Form, Updated TCEQ Form 10053, USGS Maps and Plain Language Forms. Additionally the requested Spanish NORI Word document attached to email.

Should you have any questions or comments regarding this TPDES Domestic Wastewater Permit Renewal Application, please feel free to contact Mr. Javier Hinojosa, Asst. Director of Wastewater Systems directly at 956-681-1750 or by fax 956-681-1754.

Sincerely,



David Garza, Director of Wastewater Systems
McAllen Public Utility

Enclosure(s)

Xc: Marco A. Vega, P.E., MPU General Manager
McAllen Public Utility

Javier Hinojosa, Assistant Director of Wastewater Systems
McAllen Public Utility

Edgar Tijerina, South WWTP Manager
McAllen Public Utility



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 City of McAllen (CN600343743) operates the City Of Mcallen South Wastewater Treatment Plant (RN 101720977), an activated sludge process plant operated in biological nutrient removal mode. The facility is located at 4100 Idela Avenue, in McAllen, Hidalgo County, Texas 78503. This application is for a renewal to discharge at an annual average flow of 10,000,000 gallons per day of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 and the treatment units include a bar screen, a grit chamber, aeration basins, secondary clarifiers, membrane thickener, sludge digesters, a belt filter press, and UV (Ultra violet) light disinfection.

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

AGUAS RESIDUALES DOMÉSTICA /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.

La Ciudad de McAllen (CN 60034743) opera la planta de tratamiento de aguas residuales de Sur de la Ciudad de McAllen RN 101720977, una planta de proceso de lodos activados operada en modo de eliminación biológica de nutrientes.. La instalación está ubicada en 4100 Idela Avenue, en McAllen, Condado de Hidalgo, Texas 78503. Esta solicitud es para una renovación para descargar un flujo anual promedio de 10,000,000 galones por día de aguas residuales domésticas tratadas a través del drenaje 001..

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonácea a cinco días (CBOD5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Doméstico 1.0, Sección 7. Aguas residuales tratadas . está tratado por el proceso de lodos activados, que promueve el crecimiento de microorganismos que descomponen la materia orgánica a través de la aireación. Este método consiste en varios tanques de aireación donde se introduce aire para mezclar las aguas residuales con lodo. Después de esto, la mezcla fluye hacia un clarificador secundario, permitiendo que la biomasa se asiente. Tras el tratamiento biológico, el efluente se desinfecta utilizando luz ultravioleta (UV) antes de ser finalmente descargado..

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 (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-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 (BOD₅), 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.

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. WQ0010633003

SOLICITUD. La Ciudad de McAllen, 4100 Idela Avenue McAllen, Texas 78503 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010633003 (EPA I.D. No. TX 0047449) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 10,000,000 galones por día. La planta está ubicada 4100 Idela Avenue en La Ciudad de McAllen en el Condado de Hidalgo, Texas. La ruta de descarga es del sitio de la planta a una zanja de drenaje sin nombre, de allí a la porción de la inundación principal, desde allí hasta Arroyo Colorado sobre la marea. La TCEQ recibió esta solicitud el 29 de Enero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en El Ayuntamiento de McAllen, 1300 Houston Avenue, Oficina de Administración de Servicios Públicos de McAllen, segundo piso, McAllen, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.275277,26.172222&level=18>

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

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

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

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

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

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

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

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

solicitudes deben ser presentadas electrónicamente vía

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

También se puede obtener información adicional del La Ciudad de McAllen a la dirección indicada arriba o llamando a Marco A. Vega, P.E. Gerente General, McAllen Public Utility al (956) 681-1630.

Fecha de emission:



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of McAllen, South Wastewater Treatment Plant

PERMIT NUMBER (If new, leave blank): WQ0010633003

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: 0000653181
Check/Money Order Amount: \$2,015.00
Name Printed on Check: Texas Commission on Environmental Quality

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

- ☒ Publicly Owned Domestic Wastewater
☐ Privately-Owned Domestic Wastewater
☐ Conventional 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: N/A

f. For existing permits:

Permit Number: WQ00 10633003

EPA I.D. (TPDES only): TX 0047449

Expiration Date: 09/03/2025

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

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

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

City of McAllen

(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: 600343743

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: Vega, Marco A.

Title: General Manager

Credential: P.E.

B. Co-applciant 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-applciant applying for this permit?

N/A

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

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

CN: N/A

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

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

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

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. File Attached

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: Vega, Marco A
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net
Check one or both: ☒ Administrative Contact ☐ Technical Contact
- B. Prefix: Mr. Last Name, First Name: Garza, David
Title: Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1750 E-mail Address: dgarza@mcallen.net
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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

B. Prefix: Mr. Last Name, First Name: Garza, David
Title: Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: dgarza@mcallen.net

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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

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: Hinojosa, Oscar J
Title: Assistant Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: ohinojosa@mcallen.net

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Hinojosa, Oscar J.
Title: Assistant Director of Wastewater Systems Credential: N/A
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 4100 Idela Avenue City, State, Zip Code: McAllen, Texas 78503
Phone No.: (956) 681-1750 E-mail Address: ohinojosa@mcallen.net

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: Vega, Marco A.
Title: General Manager Credential: P.E.
Organization Name: City of McAllen, McAllen Public Utility
Mailing Address: 1300 Houston Avenue City, State, Zip Code: McAllen, Texas 78501
Phone No.: (956) 681-1630 E-mail Address: mvega@mcallen.net

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: McAllen City Hall
Location within the building: 2nd Floor Utility Administration Office
Physical Address of Building: 1300 Houston Avenue
City: McAllen County: Hidalgo
Contact (Last Name, First Name): Marco A. Vega, P.E.
Phone No.: (956) 681-1630 Ext.: N/A

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: File Attached

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN 101720977

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):

South Wastewater Treatment Plant, City of McAllen

C. Owner of treatment facility: City of McAllen

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

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

Prefix: City of McAllen

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: City of McAllen, McAllen Public Utility

Mailing Address: 4100 Idela Avenue

City, State, Zip Code: McAllen, Texas 78503

Phone No.: (956) 681-1750

E-mail Address: dgarza@mcallen.net

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

Attachment: N/A

E. Owner of effluent disposal site:

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

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

Prefix: N/A

Last Name, First Name: N/A

Title: N/A

Credential: N/A

Organization Name: N/A

Mailing Address: N/A

City, State, Zip Code: N/A

Phone No.: N/A

E-mail Address: N/A

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒

Yes

☐

No

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

N/A

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

☒

Yes

☐

No

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

N/A

City nearest the outfall(s): McAllen

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

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: N/A

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

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:

N/A

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

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

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

N/A

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: [Click to enter text.](#)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010633003

Applicant: City of McAllen, McAllen Public Utility

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): Marco A. Vega, P.E.

Signatory title: General Manager

Signature: _____

(Use blue ink)

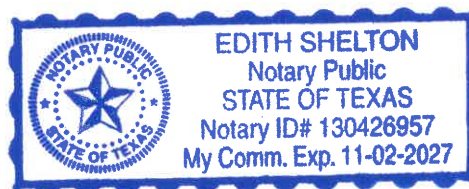
Date: _____

Subscribed and Sworn to before me by the said _____

on this 6th day of February, 2025.

My commission expires on the 2nd day of November, 2027.

E. Shelton
Notary Public



[SEAL]

Hidalgo
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: [Click to enter text.](#)
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

- ☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: File Attached

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do Not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP Waste Permit No: WQ0010633003

1. Check or Money Order Number: 0000653181
2. Check or Money Order Amount: \$2,015.00
3. Date of Check or Money Order: 01/17/2025
4. Name on Check or Money Order: Texas Commission on Environmental Quality
5. APPLICATION INFORMATION

Name of Project or Site: South Wastewater Treatment Plant

Physical Address of Project or Site: 4100 Idela Avenue McAllen, Hidalgo, Texas 78503.

If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space



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 600343743		RN 101720977

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		11/20/2024	
☐ New Customer		☒ Update to Customer Information		☐ Change in Regulated Entity Ownership	
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of McAllen					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID	10. DUNS Number (if applicable)
N/A		32066221282		(9 digits) 74-6001650	N/A
11. Type of Customer:		☐ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		☐ Other:	
12. Number of Employees				13. Independently Owned and Operated?	
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher				☐ Yes ☒ No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:					
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant					
15. Mailing Address:					
4100 Idela Avenue					
City		McAllen		State	TX
ZIP		78503		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
N/A				dgarza@mcallen.net	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)

City of McAllen, South Wastewater Treatment Plant

23. Street Address of the Regulated Entity:

4100 Idela Avenue

(No PO Boxes)

City	McAllen	State	TX	ZIP	78503	ZIP + 4	
------	---------	-------	----	-----	-------	---------	--

24. County

Hidalgo

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

25. Description to

Physical Location:

N/A

26. Nearest City

State

Nearest ZIP Code

McAllen

TX

78503

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

27. Latitude (N) In Decimal:

28. Longitude (W) In Decimal:

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

26

10

20

98

16

31

29. Primary SIC Code

30. Secondary SIC Code

31. Primary NAICS Code

32. Secondary NAICS Code

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4952

4212

22132

221320

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

Wastewater Treatment

34. Mailing

4100 Idela Avenue

Address:

City	McAllen	State	TX	ZIP	78503	ZIP + 4	
------	---------	-------	----	-----	-------	---------	--

35. E-Mail Address:

36. Telephone Number

37. Extension or Code

38. Fax Number (if applicable)

(956) 681-1750

N/A

(956) 681-1754

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.

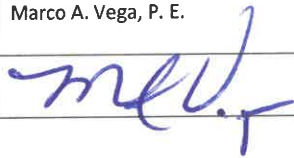
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
	TXR05R070			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ10633003			

SECTION IV: Preparer Information

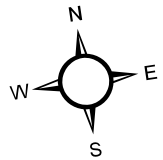
40. Name:	Edgar Tijerina			41. Title:	South Plant Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(956) 681-1750	N/A	(956) 681-1754	edgartijerina@mcallen.net		

SECTION V: Authorized Signature

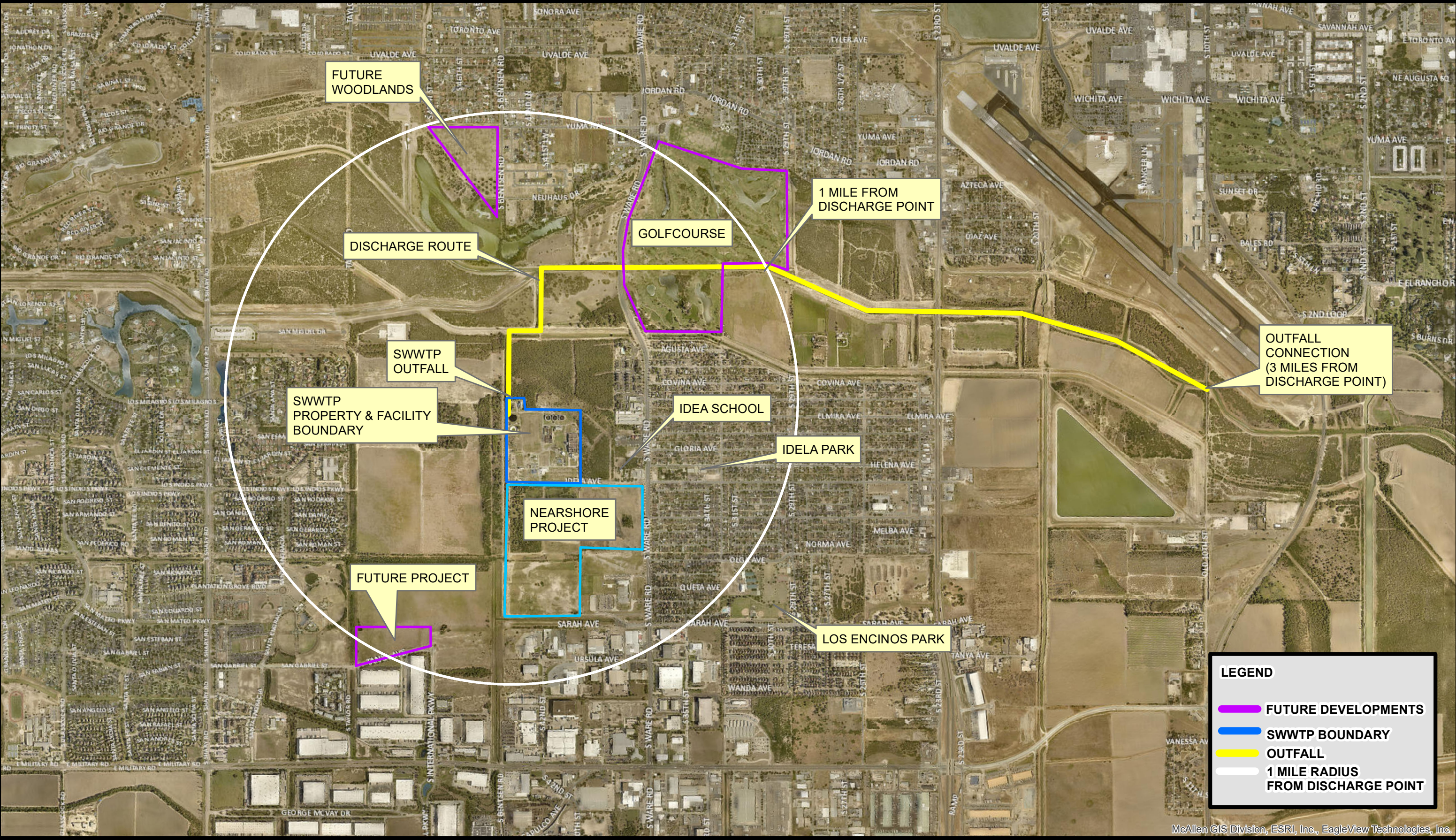
46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified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

Company:	City of McAllen	Job Title:	General Manager	
Name (In Print):	Marco A. Vega, P. E.	Phone:	(956) 681- 1630	
Signature:			Date:	2/10/25

2025 TOPO MAP UPDATES



*UTILITIES SHOWN ARE FOR GENERAL INFORMATION ONLY AND MAY NOT BE 100% ACCURATE. UTILITIES SHOULD BE FIELD VERIFIED PRIOR TO DESIGN OR CONSTRUCTION.



LEGEND

FUTURE DEVELOPMENTS

SWWTP BOUNDARY

OUTFALL

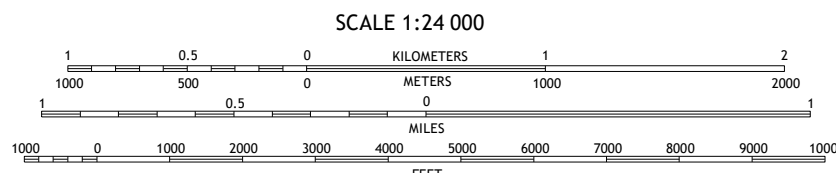
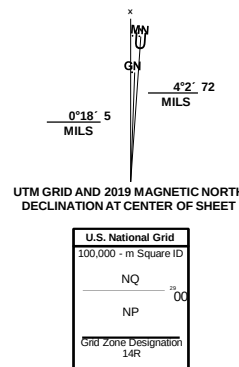
1 MILE RADIUS FROM DISCHARGE POINT



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 14E
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, July 2016 - December 2016
Roads.....U.S. Census Bureau, 2015
Names.....GNIS, 1979 -
2022
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



1	2	3
4	5	6
7	8	9

1 Citrus City
2 Alton
3 Edinburg
4 La Joya
5 Pharr
6 Hidalgo
7 Las Milpas

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

MISSION, TX, TAM
2022

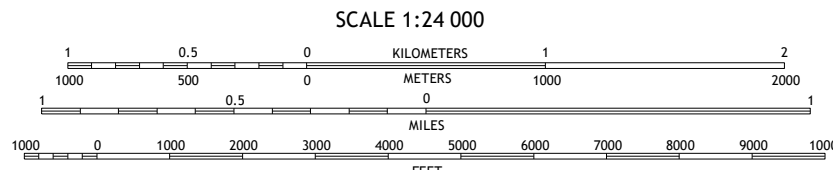
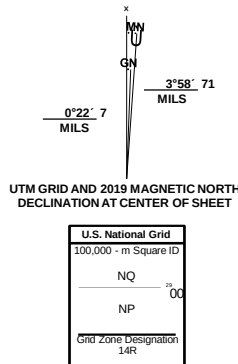
*764301639131

0*
USN 7 6 4 3 0 1 6 3 9 1 3 1
NGA REF NO. U S G S X 2 4 K 2 9 6
2 3



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 14B
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2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



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.



1	2	3
4	5	6
7	8	9

1 Altam
2 Edinburg
3 La Blanca
4 Mission
5 Donna
6 Hidalgo
7 Las Milpas
8 San Juan

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

PHARR, TX
2022

*764301639770

7*
NSN: 7 6 4 3 0 1 6 3 9 7 7 0
NGA REF NO. U S G S X 2 4 K 3 4 9
3 5

Rainee Trevino

From: Edgar Tijerina <edgartijerina@mcallen.net>
Sent: Tuesday, February 11, 2025 10:23 AM
To: Rainee Trevino
Cc: David Garza; Oscar J. Hinojosa
Subject: RE: Application to Renew Permit No. WQ0010633003- Notice of Deficiency Letter
Attachments: Response Letter.pdf; TCEQ-10053.pdf; TCEQ-10400.pdf; USGS Maps.pdf; 20972_PLS_2024-11-08.pdf; Municipal Discharge Renewal Spanish NORI.docx

Categories: NOD Response Review

Good morning,

Please accept the following responses and attachments to the deficiency letter addressed to Mr. Marco A. Vega, P.E., dated February 04, 2025 regarding our TPDES Domestic Wastewater Permit Renewal Application for the City of McAllen, McAllen Public Utility South Wastewater Treatment Plant.

Attached for you review and approval is the Revised Core Data Form, Updated TCEQ Form 10053, USGS Maps and Plain Language Forms. Additionally, the requested Spanish NORI Word document attached to email.

Should attached file(s) contain an error or fail(s) to upload please let me know. Thank you.

Best Regards,

Edgar Tijerina,MPA
South WWTP Manager
McAllen Public Utility
4100 Idela Avenue
McAllen, Texas 78503
Office: (956) 681-1751

From: David Garza <dgarza@mcallen.net>
Sent: Wednesday, February 5, 2025 7:43 AM
To: Edgar Tijerina <edgartijerina@mcallen.net>
Cc: Oscar J. Hinojosa <ohinojosa@mcallen.net>
Subject: FW: Application to Renew Permit No. WQ0010633003- Notice of Deficiency Letter

FYI

David Garza

From: Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Sent: Tuesday, February 4, 2025 1:32 PM
To: Mark A. Vega <mvega@mcallen.net>
Cc: David Garza <dgarza@mcallen.net>
Subject: Application to Renew Permit No. WQ0010633003- Notice of Deficiency Letter

Dear Mr. Vega,

The attached Notice of Deficiency letter sent on February 4, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by February 18, 2025.

Regards,

Rainee Trevino

Water Quality Division | ARP Team

Texas Commission on Environmental Quality

512-239-4324



Disclaimer: If you are not the intended recipient or have received this e-mail in error, please notify me via return e-mail and telephone at 956-681-3111, and permanently delete and purge the original and any copy thereof. This e-mail, with attachments hereto, if any, is intended only for receipt and use by the addressee(s) named herein, and may contain legally privileged and/or confidential information. Regardless of address or routing, if you are not the intended recipient, then you are hereby notified that any use, copying, reproduction, dissemination, distribution, or transmission of this e-mail, and any attachments hereto, is strictly prohibited. Whereas all reasonable steps have been taken to ensure the accuracy and confidentiality of the information and data submitted herein, the City of McAllen and its employees are not liable if information or data is corrupted or does not reach its intended destination.



TPDES PERMIT NO.
WQ0010633003
*[For TCEQ office use only - EPA I.D.
No. TX0047449]*

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

This is a renewal that replaces TPDES
Permit No. WQ0010633003 issued on
September 3, 2020.

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

City of McAllen

whose mailing address is

4100 Idela Avenue
McAllen, Texas 78503

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

located at 4100 Idela Avenue, in the City of McAllen, Hidalgo County, Texas 78503

to an unnamed drainage ditch, thence to Main Floodway portion of Arroyo Colorado Above
Tidal, thence to Arroyo Colorado Above Tidal in Segment No. 2202 of the Nueces-Rio Grande
Coastal Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth
in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ),
the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does
not grant to the permittee the right to use private or public property for conveyance of
wastewater along the discharge route described in this permit. This includes, but is not limited
to, property belonging to any individual, partnership, corporation, or other entity. Neither does
this permit authorize any invasion of personal rights nor any violation of federal, state, or local
laws or regulations. It is the responsibility of the permittee to acquire property rights as may be
necessary to use the discharge route.

This permit shall expire at midnight, **five years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall 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 10.0 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 20,833 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	7 (584)	12	22	32	One/day	Composite
Total Suspended Solids	15 (1,251)	25	40	60	One/day	Composite
Ammonia Nitrogen	2 (167)	5	10	15	One/day	Composite
<i>E. coli</i> , 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 6.0 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 n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
 - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.
3. Sample Type
- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Compliance Monitoring Team of 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 Compliance

Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

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

10. Signatories to Reports

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

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

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

PERMIT CONDITIONS**1. General**

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

2. Compliance

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

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

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

3. Inspections and Entry

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

4. Permit Amendment and/or Renewal

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

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

5. Permit Transfer

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

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

OPERATIONAL REQUIREMENTS

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

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

7. Documentation

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

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

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

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

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

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

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

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

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

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

TCEQ Revision 06/2020

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. This annual report shall be submitted to the TCEQ Regional Office (MC Region 15) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

criteria.

Alternative 1

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

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

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

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a

single location, except as provided in paragraph v. below;

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

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

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

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

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

Alternative 9 -

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

Alternative 10 -

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

C. Monitoring Requirements

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

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

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 report annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge 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 Compliance Monitoring Team (MC 224) of the Enforcement Division 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 report annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge 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 report the following information annually to the TCEQ Regional Office (MC Region 15) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

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

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

2. The Executive Director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office 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 Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to 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 Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of McAllen** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **January 11, 1985**, and modified on **November 30, 1994, January 26, 2011** (TBLLs), and on **November 25, 2019** (nonsubstantial Streamlining Rule).

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

- a. Industrial user (IU) information shall be kept current according to 40 CFR §§ 403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.
- b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR § 403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.
- c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.
- d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR § 403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR § 403.8(f)(1)(iii).

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

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

- (5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and
 - (6) Requirements to control slug discharges, if determined by the POTW to be necessary.
 - e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR § 403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).
 - f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR § 403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR § 403.8(f)(2)(vi).
 - g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.
 - h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.
2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR § 403.18.

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

- 1) a written certification that a technical reassessment has been performed, and that the evaluation demonstrates that existing technically based local limits (TBLLs) attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, and are adequate to prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination [submit the Reassessment Form No. TCEQ-20221]; **or**
- 2) a written notification that a technical redevelopment of the current TBLLs, draft legal authority which incorporates such revisions, and any additional modifications to the pretreatment program, as required by 40 CFR Part 403 [rev. 10/14/05], and applicable state and local law, including an Enforcement Response Plan and Standard Operating Procedures (including forms) will be submitted within **twelve**

(12) months of the issued date of 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 **January** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

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

- a. An updated list of all regulated IUs as indicated in this section. For each listed IU,

the following information shall be included:

- (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.
- (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [rev. 10/14/05], then the list must also identify:
 - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [rev. 10/22/15] and (3);
 - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and
 - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).
- (3) Control mechanism status.
 - Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;
 - Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
 - Include the type of general control mechanisms; and
 - Report all NSCIU annual evaluations performed, as applicable.
- (4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:
 - Total number of inspections performed; and
 - Total number of sampling events conducted.
- (5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:
 - Compliant (C) - no violations during the pretreatment year reporting period;
 - Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
 - Significant Noncompliance (SNC) - in accordance with requirements

described above in this section.

- (6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.
- b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.
- c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.
- d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.
- e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.
- f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.
- g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (*See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation.*)
- h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.
- i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

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

5. The permittee shall provide adequate written notification to the Executive Director, care of

the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:

- a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and
- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

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

Revised March 2022

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No.:** _____ **Permittee:** _____ **Treatment Plant:** _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS ¹ LIST																
Industrial User Name	SIC or NAICS Code	CIU ²	CONTROL MECHANISM				New User ³ (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period ⁴ (C = Compliant, NC = Noncompliant, SNC = Significant Noncompliance)						
			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 ⁸			

- 1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR § 403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR § 403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.
- 2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).
- 3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.
- 4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR § 403.8(f)(2)(viii)(H)).
- 5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g.* the sector type and BMP description.
- 6 Permit or NSCIU evaluations as applicable.
- 7 According to 40 CFR § 403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g.* where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g.* the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.
- 8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

**TPDES Pretreatment Program Annual Report Form for
Industrial User Inventory Modifications**

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

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

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

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

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken**Reporting month/year:** _____, _____ **to** _____, _____**TPDES Permit No:** _____ **Permittee:** _____ **Treatment Plant:** _____**Overall SNC** _____% **SNC ¹⁰ based on:** **Effluent Violations** _____%
Reporting Violations _____% **Narrative Standard Violations** _____%

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

10 # %

_____ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)

_____ Reporting Requirements [WENDB-PSNC]

_____ Narrative Standards

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

**TPDES Pretreatment Program Annual Report Form for
Influent and Effluent Monitoring Results¹**

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

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

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

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

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

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

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

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

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

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

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

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

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).
2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

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

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

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

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.

BIOMONITORING REQUIREMENTS**CHRONIC BIOMONITORING REQUIREMENTS: FRESHWATER**

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

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

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

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

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 24%, 33%, 44%, 58%, and 77% effluent. The critical dilution, defined as 58% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. Testing Frequency Reduction
 - 1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

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

2. Required Toxicity Testing Conditions

- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:
 - 1) a control mean survival of 80% or greater;
 - 2) a control mean number of water flea neonates per surviving adult of 15 or greater;
 - 3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;
 - 4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;
 - 5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;
 - 6) a percent minimum significant difference of 47 or less for water flea reproduction; and
 - 7) a percent minimum significant difference of 30 or less for fathead minnow growth.
- b. Statistical Interpretation
 - 1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.
 - 2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

- 3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 4) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 80% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.
- 5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.
- 6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.
- 7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.
- 8) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

- 1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and

alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

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

days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

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

3. Reporting

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

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

- 8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.
 - 9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.
 - 10) For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."
 - 11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.
 - 12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.
- d. Enter the following codes for retests only:
- 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this Part apply only when a test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.
- b. If the retests are performed due to a demonstration of significant lethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

- c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.
- d. If the two retests are performed due to a demonstration of significant

sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

- e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, or within 90 days of being so instructed due to multiple toxic events, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA/600/6-91/005F) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall

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

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

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

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

TABLE 1 (SHEET 1 OF 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times
Composites
Collected

No. 1 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____

No. 2 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____

No. 3 FROM: _____ Date _____ Time _____ TO: _____ Date _____ Time _____

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water _____

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	24%	33%	44%	58%	77%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

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

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

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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

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

CRITICAL DILUTION (58%): _____ YES _____ NO

PERCENT SURVIVAL

Time of Reading	Percent effluent					
	0%	24%	33%	44%	58%	77%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

CRITICAL DILUTION (58%): _____ YES _____ NO

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

a.) NOEC survival = _____% effluent

b.) LOEC survival = _____% effluent

c.) NOEC reproduction = _____% effluent

d.) LOEC reproduction = _____% effluent

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times No. 1 FROM: Date Time Date Time
 Composites
 Collected No. 2 FROM: _____ TO: _____
 No. 3 FROM: _____ TO: _____
 Test initiated: _____ am/pm _____ date
 Dilution water used: _____ Receiving water _____ Synthetic dilution water _____

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
24%							
33%							
44%							
58%							
77%							
PMSD							

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

CRITICAL DILUTION (58%): _____ YES _____ NO

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

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
24%									
33%									
44%									
58%									
77%									

* Coefficient of Variation = standard deviation x 100/mean

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

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

CRITICAL DILUTION (58%): _____ YES _____ NO

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

a.) NOEC survival = _____ % effluent

b.) LOEC survival = _____ % effluent

c.) NOEC growth = _____ % effluent

d.) LOEC growth = _____ % effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

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

1. Scope, Frequency, and Methodology

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

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
 - d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
2. Required Toxicity Testing Conditions
- a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
 - b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

- 1) The permittee shall collect one composite sample from Outfall 001.
- 2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.
- 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
- 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
- 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

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

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
 - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean

survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

d. Enter the following codes for retests only:

- 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."
- 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity

characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

- 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation that identifies the pollutant

- and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

TABLE 2 (SHEET 2 OF 2)
FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the LC₅₀ below:

24 hour LC₅₀ = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010633003, EPA I.D. No. TX0047449, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: City of McAllen
4100 Idela Avenue
McAllen, Texas 78503

Prepared By: Sonia Bhuiya
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-1205

Date: August 5, 2025.

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

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

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 10.0 million gallons per day. The existing wastewater treatment facility serves the City of McAllen in the area south of downtown.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 4100 Idela Avenue, in the City of McAllen, Hidalgo County, Texas 78503.

Outfall Location:

Outfall Number	Latitude	Longitude
001	26.172225 N	98.275371 W

The treated effluent is discharged to an unnamed drainage ditch, thence to Main Floodway portion of Arroyo Colorado Above Tidal, thence to Arroyo Colorado Above Tidal in Segment No. 2202 of the Nueces-Rio Grande Coastal Basin. The unclassified receiving water use is minimal aquatic life use for unnamed drainage ditch. The

designated uses for Segment No. 2202 are primary contact recreation and intermediate aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of McAllen South Wastewater Treatment Facility is an activated sludge process plant operated in the conventional mode. Treatment units include bar screens, grit chambers, odor control, aeration basins, secondary clarifiers, aerobic sludge digesters, sludge drying beds, and UV disinfection system. The facility is currently operating.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-authorized land application site, Reavis Farms Land Application Facility, Permit No. WQ0004463000, in Hidalgo County; Reavis South Farm Land Application Facility, Permit No. WQ0004861000, in Hidalgo County; Reavis McCook North Land Application Facility, Permit No. WQ0004923000, in Starr County; and Reavis McCook South Land Application Facility Permit No. WQ0004924000, in Hidalgo 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 City of McAllen South WWTP receives significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period December 2019 through January 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 (CBOD₅), total suspended solids (TSS), and ammonia nitrogen (NH₃-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	5.54
CBOD ₅ , mg/l	1.52
TSS, mg/l	3.05
NH ₃ -N, mg/l	0.28
<i>E. coli</i> , CFU or MPN per 100 ml	5

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 10.0 MGD, nor shall the

average discharge during any two-hour period (2-hour peak) exceed 20,833 gallons per minute.

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD ₅	7	584	12	22
TSS	15	1,251	25	40
NH ₃ -N	2	167	5	10
DO (minimum)	6.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 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 Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	One/day
TSS	One/day
NH ₃ -N	One/day
DO	One/day
<i>E. coli</i>	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, Reavis Farms Land Application Facility, Permit No. WQ0004463000, in Hidalgo County; Reavis South Farm Land Application Facility, Permit No. WQ0004861000, in Hidalgo County; Reavis McCook North Land Application Facility, Permit No. WQ0004923000, in Starr County; and Reavis McCook South Land Application Facility Permit No. WQ0004924000, in Hidalgo 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 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 January 11, 1985 and modified on November 30, 1994, January 26, 2011 (TBLLs), and November 25, 2019 (Streamlining Rule nonsubstantial modification). 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 **January** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

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

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

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

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

Director in accordance with 40 CFR § 403.18.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes chronic freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 24%, 33%, 44%, 58%, and 77% with a critical dilution of 58%. The low-flow effluent concentration (critical dilution) is defined as 58% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
 - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
 - (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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

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

305.132.

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

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

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

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

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to an unnamed drainage ditch, thence to Main Floodway portion of Arroyo Colorado Above Tidal, thence to Arroyo Colorado Above Tidal in Segment No. 2202 of the Nueces-Rio Grande Coastal Basin. The unclassified receiving water use is minimal aquatic life use for unnamed drainage ditch. The designated uses for Segment No. 2202 are primary contact recreation and intermediate aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 2202 is currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA Section 303(d) list). The listing is for bacteria, mercury in edible tissue, and Polychlorinated Biphenyls (PCBs) in edible tissue throughout the entire segment (Assessment Unit [AU] 2202_01 through 2202_04). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the

bacterial impairment of the segment. To ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued in the draft permit. This is a public domestic wastewater treatment facility. The facility does not receive industrial wastewater contributions, therefore the effluent from this facility should not contribute to the mercury, dioxin, PCBs in edible tissue impairment of this segment.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 1237 mg/l total dissolved solids (TDS), 241 mg/l sulfate, and 197 mg/l chloride present in the effluent. The segment criteria for Segment No. 2202 are 4000 mg/l for TDS, 1200 mg/l for sulfate, and 1000 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.

TMDL Project No. 7A has been approved for this segment: *Twelve Total Maximum Daily Loads for Legacy Pollutants in the Arroyo Colorado and Donna Reservoir and Canal System* was adopted by the

TCEQ on July 25, 2003, was adopted by TCEQ and approved by the EPA on May 13, 2004. This document is a revision of a previously published document that established total maximum daily loads (TMDLs) for four legacy pollutants. The approved TMDL does not include an allocation for point sources since chlordane, Dichlorodiphenyldichloroethylene (DDE), toxaphene, Polychlorinated biphenyls (PCBs), Dichlorodiphenyltrichloroethane (DDT), Dichlorodiphenyldichloroethane (DDD), dieldrin, endrin, hexachlorobenzene, heptachlor, heptachlor epoxide and lindane are legacy pollutants. Legacy pollutant is a collective term used to describe substances whose use has been banned or severely restricted by the EPA. Because of their slow rate of decomposition, these substances frequently remain at elevated levels in the environment for many years after their widespread use has ended. No additional loading of legacy pollutants is allowed or expected due to the EPA restrictions. Gradual declines in environmental legacy pollutant concentrations occur as a result of natural attenuation processes. All continuing sources of pollutant loadings occur from nonpoint source runoff, leaching or erosion of the various depositional sinks that may exist within the watersheds. No authorized point source discharges of these pollutants are allowed by law. Therefore, no load reductions for these pollutants are required for this permit action at this time.

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 Water Quality Management Plan (WQMP). The existing limits are contained in 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 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* (IP) (June 2010) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

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 are applied in the perennial freshwater stream.

For the intermittent stream, the percent effluent for acute protection of

aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 10.0 MGD and the 7-day, 2-year (7Q2) flow of 0.00 cfs for an unnamed drainage ditch within three miles of Arroyo Colorado Above Tidal (Segment No. 2202), the perennial stream. The following critical effluent percentages are being used:

Acute Effluent %:	100%	Chronic Effluent %:	58.38%
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Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 99th percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards*. The segment values are 825 mg/l for hardness (as calcium carbonate), 681 mg/l for 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

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 0 MGD and the harmonic mean flow of 12.26 cfs for an unnamed drainage ditch within three miles of Arroyo Colorado Above Tidal (Segment 2202). The following critical effluent percentage is being used:

Human Health Effluent %: 55.59%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

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

(b) PERMIT ACTION

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

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 2202, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

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

The existing permit includes chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed twenty-four chronic tests, with no demonstrations of significant toxicity (i.e., no failures) by the water flea or fathead minnow.

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic (or 48-hour acute) WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With no demonstrations of significant toxicity during the period of record for either test species, a determination of no reasonable potential was made.

All of the test results were used for this determination.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

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

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve

24-hour acute tests, with no demonstrations of significant mortality.

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application, or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010633003 issued on September 3, 2020.

B. APPLICATION

Application received on January 29, 2025, and additional information received on February 19, 2025.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

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

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

Twelve Total Maximum Daily Loads for Legacy Pollutants in the Arroyo Colorado and Donna Reservoir and Canal (TMDL Project No. 7A).

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name:

City of McAllen

Permit Number, Outfall:

10633-003, Outfall 001

Segment Number:

2202

Enter values needed for screening:		Data Source (edit if different)	
QE - Average effluent flow	10	MGD	
QS - Perennial stream harmonic mean flow	13.10	cfs	Critical conditions memo
QE - Average effluent flow	15.4723	cfs	Calculated
CA - TDS - ambient segment concentration	2780	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	860	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	770	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	4000	mg/L	2014 TSWQS, Appendix A
CC - chloride - segment criterion	1000	mg/L	2014 TSWQS, Appendix A
CC - sulfate - segment criterion	1200	mg/L	2014 TSWQS, Appendix A
CE - TDS - average effluent concentration	1235	mg/L	Permit application
CE - chloride - average effluent concentration	197	mg/L	Permit application
CE - sulfate - average effluent concentration	241	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

TDS

Calculate the WLA	WLA = [CC(QE+QS) - (QS)(CA)]/QE	5032.94
Calculate the LTA	LTA = WLA * 0.93	4680.64
Calculate the daily average	Daily Avg. = LTA * 1.47	6880.54
Calculate the daily maximum	Daily Max. = LTA * 3.11	14556.78
Calculate 70% of the daily average	70% of Daily Avg.	
	=	4816.38
Calculate 85% of the daily average	85% of Daily Avg.	
	=	5848.46

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No permit limitations needed if:	1235	≤	4816.38		
Reporting needed if:	1235	>	4816.38	but ≤	5848.46
Permit limits may be needed if:	1235	>	5848.46		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		1118.53		
Calculate the LTA	LTA = WLA * 0.93		1040.24		
Calculate the daily average	Daily Avg. = LTA * 1.47		1529.15		
Calculate the daily maximum	Daily Max. = LTA * 3.11		3235.14		
Calculate 70% of the daily average	70% of Daily Avg. =		1070.40		
Calculate 85% of the daily average	85% of Daily Avg. =		1299.78		
No permit limitations needed if:	197	≤	1070.40		
Reporting needed if:	197	>	1070.40	but ≤	1299.78
Permit limits may be needed if:	197	>	1299.78		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE		1564.07		
Calculate the LTA	LTA = WLA * 0.93		1454.59		
Calculate the daily average	Daily Avg. = LTA * 1.47		2138.24		
Calculate the daily maximum	Daily Max. = LTA * 3.11		4523.76		
Calculate 70% of the daily average	70% of Daily Avg. =		1496.77		
Calculate 85% of the daily average	85% of Daily Avg. =		1817.50		
No permit limitations needed if:	241	≤	1496.77		
Reporting needed if:	241	>	1496.77	but ≤	1817.50
Permit limits may be needed if:	241	>	1817.50		

No permit limitations needed for sulfate

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Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

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

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

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

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

PERMIT INFORMATION

Permittee Name:	City of McAllen
TPDES Permit No.:	WQ0010633003
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	August 4, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	an unnamed drainage ditch within three miles of Arroyo Colorado Above Tidal (Segment 2202).
Perennial Stream/River within 3 Miles:	
Segment No.:	2202
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):	10
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	11.03
% Effluent for Chronic Aquatic Life (Mixing Zone):	58.38
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	10
Harmonic Mean Flow (cfs) for perennial:	12.36
% Effluent for Human Health:	55.591
Human Health Criterion (select: PWS, FISH, or INC)	FISH

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

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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:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	848	641	486	494	714	1511
Cadmium	55.2	0.929	182	5.25	104	4.04	5.94	12.5
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.00685	1.38	0.00528	0.00775	0.0164
Chlorpyrifos	0.083	0.041	0.0830	0.0702	0.0476	0.0541	0.0699	0.147
Chromium (trivalent)	2742	357	14941	3329	8561	2563	3768	7971
Chromium (hexavalent)	15.7	10.6	15.7	18.2	9.00	14.0	13.2	27.9
Copper	86.6	48.8	358	346	205	266	301	638
Cyanide (free)	45.8	10.7	45.8	18.3	26.2	14.1	20.7	43.8
4,4'-DDT	1.1	0.001	1.10	0.00171	0.630	0.00132	0.00193	0.00410
Demeton	N/A	0.1	N/A	0.171	N/A	0.132	0.193	0.410
Diazinon	0.17	0.17	0.170	0.291	0.0974	0.224	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	33.9	34.0	26.1	38.3	81.2
Dieldrin	0.24	0.002	0.240	0.00343	0.138	0.00264	0.00387	0.00820
Diuron	210	70	210	120	120	92.3	135	287
Endosulfan I (<i>alpha</i>)	0.22	0.056	0.220	0.0959	0.126	0.0739	0.108	0.229
Endosulfan II (<i>beta</i>)	0.22	0.056	0.220	0.0959	0.126	0.0739	0.108	0.229
Endosulfan sulfate	0.22	0.056	0.220	0.0959	0.126	0.0739	0.108	0.229
Endrin	0.086	0.002	0.0860	0.00343	0.0493	0.00264	0.00387	0.00820
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0171	N/A	0.0132	0.0193	0.0410
Heptachlor	0.52	0.004	0.520	0.00685	0.298	0.00528	0.00775	0.0164
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	1.13	0.137	0.645	0.106	0.155	0.328
Lead	480	18.71	3627	242	2078	186	274	579
Malathion	N/A	0.01	N/A	0.0171	N/A	0.0132	0.0193	0.0410
Mercury	2.4	1.3	2.40	2.23	1.38	1.71	2.02	4.27
Methoxychlor	N/A	0.03	N/A	0.0514	N/A	0.0396	0.0581	0.123
Mirex	N/A	0.001	N/A	0.00171	N/A	0.00132	0.00193	0.00410
Nickel	2373	263.6	9506	1809	5447	1393	2047	4330
Nonylphenol	28	6.6	28.0	11.3	16.0	8.70	12.7	27.0
Parathion (ethyl)	0.065	0.013	0.0650	0.0223	0.0372	0.0171	0.0252	0.0533
Pentachlorophenol	13.0	10.0	13.0	17.1	7.47	13.2	10.9	23.2
Phenanthrene	30	30	30.0	51.4	17.2	39.6	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.0240	1.15	0.0185	0.0271	0.0574
Selenium	20	5	20.0	8.56	11.5	6.59	9.69	20.5

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Silver	0.8	N/A	27.7	N/A	15.9	N/A	23.3	49.4
Toxaphene	0.78	0.0002	0.780	0.000343	0.447	0.0002	0.0003	0.0008
Tributyltin [TBT]	0.13	0.024	0.130	0.0411	0.0745	0.0317	0.0465	0.0984
2,4,5 Trichlorophenol	136	64	136	110	77.9	84.4	114	242
Zinc	595	600	3253	5618	1864	4326	2740	5797

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	207	192	282	598
Aldrin	#####	1.147E-05	1.147E-04	0.0000206	0.0000	0.0000	0.0000
Anthracene	1109	1317	13170	2369	192	282	596
Antimony	6	1071	10710	1927	2203	3238	6852
Arsenic	10	N/A	N/A	1927	1792	2633	5572
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	N/A	N/A	N/A	N/A
Benzidine	0.0015	0.107	1.07	1045	972	1428	3022
Benzo(a)anthracene	0.024	0.025	0.25	0.192	0.179	0.263	0.556
Benzo(a)pyrene	0.0025	0.0025	0.025	0.0450	0.0418	0.0614	0.130
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.0041	0.0061	0.0130	0.0130
Bis(2-chloroethyl)ether	0.0024	0.2745	2.745	0.00450	8	4	0.0130
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	0.60	42.83	428.3	0.494	0.459	0.675	1.42
Bromodichloromethane [Dichlorobromomethane]	6	7.55	75.5	77.0	71.7	105	222
Bromoform [Tribromomethane]	10.2	275	2750	13.6	12.6	18.5	39.2
Cadmium	66.9	1060	10600	495	460	676	1430
Carbon Tetrachloride	5	N/A	N/A	1907	1773	2606	5514
Chlordane	4.5	46	460	82.7	77.0	113	239
Chlorobenzene	0.0025	0.0025	0.025	0.0041	0.0061	0.0130	0.0130
Chlorodibromomethane [Dibromochloromethane]	100	2737	27370	0.00450	8	4	0.0130
Chloroform [Trichloromethane]	7.5	183	1830	4923	4579	6730	14240
Chromium (hexavalent)	70	7697	76970	329	306	450	952
Chrysene	62	502	5020	13846	12877	18928	40046
Cresols [Methylphenols]	2.45	2.52	25.2	903	840	1234	2611
Cyanide (free)	1041	9301	93010	16731	15560	22873	48391
4,4'-DDD	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	0.002	0.002	0.02	0.0033	0.0049	0.0104	0.0104
4,4'-DDT	0.00013	0.00013	0.0013	0.0002	0.0003	0.0006	0.0006
2,4'-D	0.0004	0.0004	0.004	0.000234	0.0006	0.0009	0.0020
Danitrol [Fenpropathrin]	70	N/A	N/A	0.000720	69	83	8
1,2-Dibromoethane [Ethylene Dibromide]	262	473	4730	N/A	N/A	N/A	N/A
m-Dichlorobenzene [1,3-Dichlorobenzene]	0.17	4.24	42.4	851	791	1163	2460
o-Dichlorobenzene [1,2-Dichlorobenzene]	322	595	5950	7.63	7.09	10.4	22.0
p-Dichlorobenzene [1,4-Dichlorobenzene]	600	3299	32990	1070	995	1463	3095
	75	N/A	N/A	5934	5519	8112	17164
				N/A	N/A	N/A	N/A

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3,3'-Dichlorobenzidine	0.79	2.24	22.4	4.03	3.75	5.50	11.6
1,2-Dichloroethane	5	364	3640	655	609	895	1893
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	99142	92202	135536	286748
Dichloromethane [Methylene Chloride]	5	13333	133330	23984	22305	32788	69369
1,2-Dichloropropane	5	259	2590	466	433	636	1347
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	214	199	292	619
Dicofol [Kelthane]	0.30	0.30	3	0.540	0.502	0.737	1.56
					0.0000	0.0000	0.0001
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000360	335	491	04
2,4-Dimethylphenol	444	8436	84360	15175	14113	20745	43890
Di- <i>n</i> -Butyl Phthalate	88.9	92.4	924	166	155	227	480
					1.33E-	1.95E-	4.14E-
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.43E-07	07	07	07
Endrin	0.02	0.02	0.2	0.0360	0.0335	0.0491	0.104
Epichlorohydrin	53.5	2013	20130	3621	3368	4950	10473
Ethylbenzene	700	1867	18670	3358	3123	4591	9713
					281052	413147	874073
Ethylene Glycol	46744	1.68E+07	1.68E+08	30220706	56	26	46
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
					0.0001	0.0002	0.0005
Heptachlor	8.0E-05	0.0001	0.001	0.000180	67	45	20
					0.0004	0.0007	0.0015
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000522	85	13	0
					0.0011	0.0016	0.0035
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00122	4	7	3
Hexachlorobutadiene	0.21	0.22	2.2	0.396	0.368	0.541	1.14
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	0.0151	0.0141	0.0206	0.0437
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	0.468	0.435	0.639	1.35
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	0.613	0.570	0.838	1.77
Hexachlorocyclopentadiene	10.7	11.6	116	20.9	19.4	28.5	60.3
Hexachloroethane	1.84	2.33	23.3	4.19	3.90	5.72	12.1
Hexachlorophene	2.05	2.90	29	5.22	4.85	7.13	15.0
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	28749	26737	39303	83151
Lead	1.15	3.83	38.3	52.0	48.4	71.1	150
Mercury	0.0122	0.0122	0.122	0.0219	0.0204	0.0300	0.0634
Methoxychlor	2.92	3.0	30	5.40	5.02	7.37	15.6
					165954	243953	516119
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1784461	8	6	5
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	18856	17536	25777	54535
Nickel	332	1140	11400	8215	7640	11230	23760
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	3369	3133	4606	9744
N-Nitrosodiethylamine	0.0037	2.1	21	3.78	3.51	5.16	10.9
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	7.56	7.03	10.3	21.8
Pentachlorobenzene	0.348	0.355	3.55	0.639	0.594	0.873	1.84
Pentachlorophenol	0.22	0.29	2.9	0.522	0.485	0.713	1.50
					0.0010	0.0015	0.0033
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00115	7	7	2
Pyridine	23	947	9470	1704	1584	2328	4927
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.432	0.402	0.590	1.24
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	47.4	44.1	64.8	137
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	504	468	688	1456
Thallium	0.12	0.23	2.3	0.414	0.385	0.565	1.19

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Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0198	0.0184	0.0270	0.0572
2,4,5-TP [Silvex]	50	369	3690	664	617	907	1919
					131217	192889	408085
1,1,1-Trichloroethane	200	784354	7843540	1410936	1	1	1
1,1,2-Trichloroethane	5	166	1660	299	278	408	863
Trichloroethylene [Trichloroethene]	5	71.9	719	129	120	176	374
2,4,5-Trichlorophenol	1039	1867	18670	3358	3123	4591	9713
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	29.7	27.6	40.5	85.8

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	4.16	5.05
Carbaryl	1.17	1.43
Chlordane	0.00542	0.00659
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	2637	3202
Chromium (hexavalent)	9.25	11.2
Copper	211	256
Cyanide (free)	14.5	17.6
4,4'-DDT	0.00135	0.00164
Demeton	0.135	0.164
Diazinon	0.100	0.121
Dicofol [Kelthane]	26.8	32.6
Dieldrin	0.00271	0.00329
Diuron	95.0	115
Endosulfan I (<i>alpha</i>)	0.0760	0.0922
Endosulfan II (<i>beta</i>)	0.0760	0.0922
Endosulfan sulfate	0.0760	0.0922
Endrin	0.00271	0.00329
Guthion [Azinphos Methyl]	0.0135	0.0164
Heptachlor	0.00542	0.00659
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.108	0.131
Lead	191	232
Malathion	0.0135	0.0164
Mercury	1.41	1.71
Methoxychlor	0.0407	0.0494
Mirex	0.00135	0.00164
Nickel	1432	1740
Nonylphenol	8.95	10.8
Parathion (ethyl)	0.0176	0.0214
Pentachlorophenol	7.68	9.33
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.0190	0.0230
Selenium	6.78	8.23
Silver	16.3	19.8
Toxaphene	0.000271	0.000329

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Tributyltin [TBT]	0.0325	0.0395
2,4,5 Trichlorophenol	80.1	97.3
Zinc	1918	2329

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	197	240
Aldrin	0.0000197	0.0000239
Anthracene	2267	2752
Antimony	1843	2238
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1000	1214
Benzidine	0.184	0.223
Benzo(a)anthracene	0.0430	0.0522
Benzo(a)pyrene	0.00430	0.00522
Bis(chloromethyl)ether	0.472	0.573
Bis(2-chloroethyl)ether	73.7	89.5
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	12.9	15.7
Bromodichloromethane [Dichlorobromomethane]	473	574
Bromoform [Tribromomethane]	1824	2215
Cadmium	N/A	N/A
Carbon Tetrachloride	79.1	96.1
Chlordane	0.00430	0.00522
Chlorobenzene	4711	5721
Chlorodibromomethane [Dibromochloromethane]	315	382
Chloroform [Trichloromethane]	13249	16089
Chromium (hexavalent)	864	1049
Chrysene	4.33	5.26
Cresols [Methylphenols]	16011	19442
Cyanide (free)	N/A	N/A
4,4'-DDD	0.00344	0.00418
4,4'-DDE	0.000223	0.000271
4,4'-DDT	0.000688	0.000836
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	814	988
1,2-Dibromoethane [Ethylene Dibromide]	7.29	8.86
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	1024	1243
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	5679	6895
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	3.85	4.68
1,2-Dichloroethane	626	760
1,1-Dichloroethylene [1,1-Dichloroethene]	94875	115206
Dichloromethane [Methylene Chloride]	22952	27870
1,2-Dichloropropane	445	541
1,3-Dichloropropene [1,3-Dichloropropylene]	204	248
Dicofol [Kelthane]	0.516	0.627

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Dieldrin	0.0000344	0.0000418
2,4-Dimethylphenol	14522	17634
Di- <i>n</i> -Butyl Phthalate	159	193
Dioxins/Furans [TCDD Equivalents]	1.37E-07	1.66E-07
Endrin	0.0344	0.0418
Epichlorohydrin	3465	4207
Ethylbenzene	3213	3902
Ethylene Glycol	28920308	35117517
Fluoride	N/A	N/A
Heptachlor	0.000172	0.000209
Heptachlor Epoxide	0.000499	0.000606
Hexachlorobenzene	0.00117	0.00142
Hexachlorobutadiene	0.378	0.459
Hexachlorocyclohexane (<i>alpha</i>)	0.0144	0.0175
Hexachlorocyclohexane (<i>beta</i>)	0.447	0.543
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.587	0.712
Hexachlorocyclopentadiene	19.9	24.2
Hexachloroethane	4.01	4.87
Hexachlorophene	4.99	6.06
4,4'-Isopropylidenediphenol [Bisphenol A]	27512	33407
Lead	49.8	60.4
Mercury	0.0210	0.0255
Methoxychlor	5.16	6.27
Methyl Ethyl Ketone	1707675	2073605
Methyl <i>tert</i> -butyl ether [MTBE]	18044	21910
Nickel	7861	9546
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3224	3915
N-Nitrosodiethylamine	3.61	4.38
N-Nitroso-di- <i>n</i> -Butylamine	7.23	8.77
Pentachlorobenzene	0.611	0.742
Pentachlorophenol	0.499	0.606
Polychlorinated Biphenyls [PCBs]	0.00110	0.00133
Pyridine	1630	1979
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.413	0.501
1,1,2,2-Tetrachloroethane	45.3	55.0
Tetrachloroethylene [Tetrachloroethylene]	482	585
Thallium	0.395	0.480
Toluene	N/A	N/A
Toxaphene	0.0189	0.0229
2,4,5-TP [Silvex]	635	771
1,1,1-Trichloroethane	1350223	1639557
1,1,2-Trichloroethane	285	346
Trichloroethylene [Trichloroethene]	123	150
2,4,5-Trichlorophenol	3213	3902
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	28.4	34.4