Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Plain Language Summary

Page 7, Section 8.F.

Administrative Report

City of Palestine (CN600622922) operates Town Creek Wastewater Treatment Plant (RN102183233), a domestic wastewater treatment facility. The facility is located at 800 Private Road 6078, in Palestine, Anderson County, Texas 75801. The City of Palestine has applied for the renewal of the TPDES discharge permit authorizing the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,700,000 gallons per day.

Discharges from the facility are expected to contain CBOD5, Total Suspended Solids, Ammonia Nitrogen, Nitrate Nitrogen, Total Kjeldahl Nitrogen, Sulfate, Chloride, Total Phosphorus, pH, Dissolved Oxygen, E.coli, Total Dissolved Solids, Oil and Grease, and Alkalinity. Domestic wastewater is treated by activated sludge process with a bar screen, aeration basin, final clarifiers, aerobic digester, centrifuge, chlorine contact chamber and de-chlorination chamber.

COMISIÓN DE CALIDAD AMBIENTAL DE TEXAS

Resumen en lenguaje sencillo

(Traducido)

Page 7, Section 8.F.

Administrative Report

La Ciudad de Palestine (CN600622922) opera la Planta de Tratamiento de Aguas Residuales Town Creek (RN102183233), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 800 Prívate Road 6078, en Palestine, Anderson County, Texas 75801. La Ciudad de Palestine ha solicitado la renovación del permiso de descarga TPDES que autoriza la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio anual de 4,700,000 galones por día.

Se espera que las descargas de la instalación contengan CBOD5, sólidos suspendidos totales, nitrógeno amoniacal, nitrógeno nítrico, nitrógeno Kjeldahl total, sulfato, cloruro, fósforo total, pH, oxígeno disuelto, E.coli, sólidos disueltos totales, aceite y grasa, y alcalinidad. Las aguas residuales domésticas se tratan mediante un proceso de lodo activado con una criba de barras, una cuenca de aireación, clarificadores finales, un digestor aeróbico, una centrífuga, una cámara de contacto con cloro y una cámara de decloración.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010244001

APPLICATION. City of Palestine, 504 North Queen Street, Palestine, Texas 75801, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010244001 (EPA I.D. No. TX0025453) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,700,000 gallons per day**.** The domestic wastewater treatment facility is located at 800 Private Road 6078, near the city of Palestine, in Anderson County, Texas 75801. The discharge route is from the plant site to Bassett Creek; thence to Town Creek; thence to Keechie Creek; thence to Trinity River Above Lake Livingston. TCEQ received this application on December 18, 2024. The permit application will be available for viewing and copying at Palestine City Hall, Front Desk, 504 North Queen Street, Palestine, 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=-95.705277,31.725555&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 Palestine at the address stated above or by calling Mr. Ben Day, Wastewater Supervisor, at 903-731-8431.

Issuance Date: January 23, 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. WQ0010244001

SOLICITUD. La Ciudad de Palestine, 504 North Queen Street, Palestine, Texas 75801 Texas 75801 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010244001 (EPA I.D. No. TX0025453) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 4,700,000 galones por día. La planta está ubicada 800 Prívate Road 6078 Palestine, en el Condado de Anderson, Texas 75801. La Ruta de descarga es del sitio de la planta a a Bassett Creek; de allí a Town Creek; de allí a Keechie Creek; de allí al río Trinity sobre el lago Livingston. La TCEQ recibió esta solicitud el Desembre 18, 2024. Ayuntamiento de Palestina, Recepción, 504 North Queen Street, Palestina, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.705277,31.725555&level=18

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

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

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de

derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del La Ciudad de Palestine a la dirección indicada arriba o llamando a Sr. Ben Day, Supervisor de Aguas Residuales, al 903-731-8431.

Fecha de emisión 23 de enero de 2025

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010244001

APPLICATION AND PRELIMINARY DECISION. City of Palestine, 504 North Queen Street, Palestine, Texas 75801, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010244001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4,700,000 gallons per day. TCEQ received this application on December 18, 2024.

The facility is located at 800 Private Road 6078, in Anderson County, Texas 75801. The treated effluent is discharged to Bassett Creek, thence to Town Creek, thence to Keechie Creek, thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin. The unclassified receiving water use is high aquatic life use for Bassett Creek and Town Creek. The designated uses for Segment No. 0804 are primary contact recreation and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.705277,31.725555&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 City Hall, Front Desk, 504 North Queen Street, Palestine, Texas. The application is available for viewing and copying at the following webpage:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Palestine at the address stated above or by calling Mr. Ben Day, Wastewater Supervisor, at 903-731-8431.

Issuance Date: December 1, 2025

Comisión de Calidad Ambiental de Texas

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

RENOVACIÓN

PERMISO NO. WQ0010244001

SOLICITUD Y DECISIÓN PRELIMINAR. La ciudad de Palestine, 504 North Queen Street, Palestine, Texas 75801, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) la renovación del Permiso No.WQ0010244001, que autoriza la descarga de aguas residuales domésticas tratadas con un caudal medio anual que no debe superar los 4.700.000 galones diarios. TCEQ recibió esta solicitud el 18 de diciembre de 2024.

La instalación está situada en 800 Private Road 6078, en el condado de Anderson, Texas 75801. El efluente tratado se descarga en Bassett Creek, luego en Town Creek, después en Keechie Creek, y después en Trinity River Above Lake Livingston en el Segmento No. 0804 de la cuenca del río Trinity. El uso no clasificado de agua receptora es un alto uso de vida acuática para Bassett Creek y Town Creek. Los usos designados para el Segmento nº 0804 son recreación de contacto primario y uso de alta vida acuática. Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para la ubicación exacta, consulta la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.705277,31.725555&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y preparado un borrador del permiso. El proyecto del permiso, si se aprueba, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar de que este permiso, si se concede, cumple con todos los requisitos legales y regulatorios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su consulta y copia en el Ayuntamiento, Recepción, 504 North Queen Street, Palestine, Texas. La solicitud está disponible para su consulta y copia en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

AVISO DE LENGUAJE ALTERNATIVO. El aviso de idioma alternativo en español está disponible en 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.

COMENTARIOS PÚBLICOS / REUNIÓN PÚBLICA. Puede enviar comentarios públicos o solicitar una reunión pública sobre esta solicitud. El propósito de una reunión pública es ofrecer la oportunidad de enviar comentarios o hacer preguntas sobre la solicitud. TCEQ celebra una reunión pública si el Director Ejecutivo determina que existe un grado significativo de interés público en la solicitud o si lo solicita un legislador local. Una reunión pública no es una audiencia de caso impugnada.

OPORTUNIDAD DE UNA AUDIENCIA IMPUGNADA. Tras la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios oportunos y preparará una respuesta a todos los comentarios públicos relevantes y relevantes, o significativos. **A menos que la solicitud se remita directamente a una audiencia impugnada, la respuesta a los comentarios se enviará por correo a todas las personas que hayan presentado comentarios públicos y a las personas que estén en la lista de correo de esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia impugnada o una reconsideración de la decisión del Director Ejecutivo.** Una audiencia de un caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

PARA SOLICITAR UNA VISTA IMPUGNADA, DEBES INCLUIR LA SIGUIENTES ELEMENTOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de tu propiedad/actividades en relación con la instalación propuesta; una descripción específica de cómo te verías afectado negativamente por la instalación de una manera poco común para el público general; una lista de todos los hechos en disputa que envíes durante el periodo de comentarios; y la declaración "[Solicitamos] una audiencia impugnada en el caso." Si la solicitud de audiencia impugnada se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro individual del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente sobre la ubicación y distancia del miembro afectado respecto a la instalación o actividad; explicar cómo y por qué se vería afectado al diputado; y explicar cómo los intereses que el grupo busca proteger son relevantes para su propósito.

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

La Comisión solo puede conceder una solicitud de audiencia impugnada sobre cuestiones que el solicitante haya presentado en sus comentarios oportunos y que no hayan sido posteriormente retiradas. **Si se concede una audiencia, el objeto de la audiencia se limitará a cuestiones de hecho en disputa o a cuestiones mixtas de hecho y derecho relacionadas con preocupaciones relevantes y relevantes sobre la calidad del agua presentadas durante el periodo de comentarios. TCEQ puede actuar sobre una solicitud para renovar un permiso de vertido de aguas residuales sin ofrecer la oportunidad de una audiencia impugnada si se cumplen ciertos criterios.**

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

LISTA DE CORREO. Si presenta comentarios públicos, una solicitud de audiencia impugnada o una reconsideración de la decisión del Director Ejecutivo, se añadirá a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por la Oficina del Secretario Jefe. Además, puede solicitar ser incluido en: (1) la lista de correo permanente para un nombre específico de solicitante y número de permiso; y/o (2) la lista de correo de un condado específico. Si desea ser incluido en la lista de correo permanente y/o del condado, especifique claramente cuál(es) lista(s) y envíe su solicitud a la Oficina del Secretario Jefe de TCEQ en la dirección que aparece a continuación.

Todos los comentarios públicos escritos y solicitudes de reuniones públicas deben ser presentados a la Oficina del Secretario Jefe, MC 105, Comisión de Calidad Ambiental de Texas, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente en www.tceq.texas.gov/goto/comment dentro de los 30 días siguientes a la fecha de publicación de este aviso en el periódico.

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

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicos deben enviarse electrónicamente en www.tceq.texas.gov/goto/comment, o por escrito a la Comisión de Calidad Ambiental de Texas, Oficina del Secretario Jefe, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíes a la TCEQ pasará a formar parte del expediente de la agencia; Esto incluye las direcciones de correo electrónico. Para más información sobre esta solicitud de permiso o el proceso de obtención de permisos, por favor llame gratuitamente al Programa de Educación Pública de TCEQ al 1-800-687-4040 o visite su página web en www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

También puede obtener más información en la Ciudad de Palestine en la dirección indicada anteriormente o llamando al Sr. Ben Day, Supervisor de Aguas Residuales, al 903-731-8431.

Fecha de emisión: 1 de diciembre de 2025

KSA

6781 Oak Hill Boulevard
Tyler, TX 75703
903.581.8141

December 16, 2024

Applications Review and Processing Team
Texas Commission on Environmental Quality
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

Re: City of Palestine Town Creek Wastewater Treatment Plant
Discharge Permit Renewal Application
State Permit No. WQ0010244001
NPDES Permit No. TX 0025453

Dear Team Member,

Enclosed you will find the application for the City of Palestine Town Creek Wastewater Treatment Plant discharge permit renewal application.

I have enclosed one (1) original and three (3) copies of the application, as required. I have sent, under separate cover, a check (No. 208764) into the Revenues Section of the TCEQ in the amount of $2,015.00.
I have included a copy of the check referenced above for your convenience.

Please contact me, Sigi West, Regulatory Compliance Specialist at (903) 581-8141, Ext.1314, or via email at swest@ksaeng.com if you need any other information on the above referenced permit.

Siglinda West

Sincerely,

Siglinda M. West
Regulatory Compliance Specialist

KSA

6781 Oak Hill Boulevard
Tyler, TX 75703
903.581.8141

December 16, 2024

Texas Commission for Environmental Quality
Financial Administration Division
Cashier's Office (MC 214)
12100 Park 35 Circle
Austin, Texas 78753

Re: City of Palestine Town Creek Wastewater Treatment Plant
Discharge Permit Renewal Application
State Permit No. WQ0010244001
NPDES Permit No. TX 0025453

Dear Team Member,

Enclosed you will find a check, No.208764 in the amount of $2,015.00 for the permit renewal application for City of Palestine Town Creek Wastewater Treatment Plant discharge permit renewal application. I have sent, under separate cover, one (1) original and three (3) copies of the application, as required, to the TCEQ Water Quality Permitting Applications Team. I have also included in that package, a copy of this check and Payment Form.

Please contact me, Sigi West, Regulatory Compliance Specialist at (903) 581-8141, Ext.1314 if you need any other information on the above referenced permit.

Sincerely,

Siglinda West

KSA

Siglinda M. West

Regulatory Compliance Specialist

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:** WQ0010244001

1. Check or Money Order Number: 208764
2. Check or Money Order Amount: $2,015.00
3. Date of Check or Money Order: 10/17/2024
4. Name on Check or Money Order: City of Palestine
5. APPLICATION INFORMATION
   Name of Project or Site: Town Creek Wastewater Treatment Plant
   Physical Address of Project or Site: 800 Private Road 6078 Palestine, TX 75801
   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

CITY OF PALESTINE 208764

VENDOR: 0101087 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY 10/17/2024

DATE	INVOICE #	PO #	DESCRIPTION	AMOUNT
10/16/2024	INV0001311		PERMIT NO. WQ0010244001	2,015.00

CHECK TOTAL 2,015.00

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Palestine

PERMIT NUMBER (If new, leave blank): WQ00 0010244001

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: 208764

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Palestine

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 WQ0010244001

EPA I.D. (TPDES only): TX TX0025453

Expiration Date: 05/10/2025

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

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

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

City of Palestine

(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: 600622922

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: Jordan, Mitchell

Title: Mayor Credential: Click to enter text.

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

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

NOT APPLICABLE

(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: NOT APPLICABLE

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. Attachment No. 1

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: Ms. Last Name, First Name: West, Siglinda

Title: Regulatory Compliance Specialist Credential: N/A

Organization Name: KSA Engineers

Mailing Address: 6781 Oak Hill Blvd. City, State, Zip Code: Tyler, Texas 75703

Phone No.: 903.581.8141 E-mail Address: swest@ksaeng.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Day, Ben

Title: Wastewater Supervisor Credential: N/A

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: bday@palestine-tx.org

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: Ms. Last Name, First Name: West, Siglinda

Title: Regulatory Compliance Specialist Credential: N/A

Organization Name: KSA Engineers

Mailing Address: 6781 Oak Hill Blvd. City, State, Zip Code: Tyler, Texas 75703

Phone No.: 903.581.8141 E-mail Address: swest@ksaeng.com

B. Prefix: Mr. Last Name, First Name: Day, Ben

Title: Wastewater Supervisor Credential: N/A

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: bday@palestine-tx.org

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: Day, Ben

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: Click to enter text.

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: Day, Ben

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: bday@palestine-tx.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: West, Siglinda

Title: Regulatory Compliance Specialist Credential: Click to enter text.

Organization Name: KSA Engineers

Mailing Address: 6781 Oak Hill Blvd. City, State, Zip Code: Tyler, Texas 75703

Phone No.: 903.581.8141 E-mail Address: swest@ksaeng.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Day, Ben

Title: Wastewater Supervisor Credential: Click to enter text.

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: bday@palestine-tx.org

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: Palestine City Hall

Location within the building: Front Desk

Physical Address of Building: 504 North Queen

City: Palestine County: Anderson

Contact (Last Name, First Name): Jackson, April, City Secretary

Phone No.: 903.731.8400 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☒ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: Attachment No. 2/ Attachment No.3

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: Attachment No. 4

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** 102183233

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):

Town Creek Wastewater Treatment Plant

C. Owner of treatment facility: City of Palestine

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

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

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

Title: N/A Credential: N/A

Organization Name: City of Palestine

Mailing Address: 504 North Queen City, State, Zip Code: Palestine, Texas 75801

Phone No.: 903.731.8431 E-mail Address: BDAY@PALESTINE-TX.ORG

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: NOT APPLICABLE

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: NOT APPLICABLE

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: NOT APPLICABLE

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:

800 Private Road 6078 Palestine, Texas 75801

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:

To Bassett Creek; Thence to Town Creek; Thence to Keechie Creek; Thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin.

City nearest the outfall(s): Palestine

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

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: NOT APPLICABLE

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: NOT APPLICABLE

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:

NOT APPLICABLE

B. City nearest the disposal site: **NOT APPLICABLE**

C. County in which the disposal site is located: **NOT APPLICABLE**

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

NOT APPLICABLE

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

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.

NOT APPLICABLE

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: **NOT APPLICABLE**

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: 1- Core Data Form, 2- Plain Language Summary, 3- Plain Language Summery Spanish, 4 Project Information Form, 5 USGS Map.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010244001

Applicant: CITY OF PALESTINE

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): Click to enter text.

Signatory title: MAYOR

Signature: Mitchell Jordan Date: 12-3-2024

(Use blue ink)

Subscribed and Sworn to before me by the said Mitchell Jordan

on this 3rd day of December, 20 24.

My commission expires on the 29th day of July, 20 25.

April Jackson

Notary Public

[SEAL]

Anderson

County, Texas

NOTARY PUBLIC STATE OF TEXAS
APRIL JACKSON
Notary ID #13324687
My Commission Expires
July 29, 2025

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: **NOT APPLICABLE**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):

NOT APPLICABLE

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☒ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment No. 6

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:** WQ0010244001

1. Check or Money Order Number: 208764
2. Check or Money Order Amount: $2,015.00
3. Date of Check or Money Order: 10/17/2024
4. Name on Check or Money Order: City of Palestine
5. APPLICATION INFORMATION

   Name of Project or Site: Town Creek Wastewater Treatment Plant

   Physical Address of Project or Site: 800 Private Road 6078 Palestine, TX 75801

   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

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): N/A

Driver's License or State Identification Number: N/A

Date of Birth: N/A

Mailing Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A Fax Number: N/A

E-mail Address: N/A

CN: N/A

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

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 Palestine

   Permit No. WQ00 10244001 EPA ID No. TX 0025453

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

   800 Private Road 6078 Palestine, TX 75601

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): Ms.

First and Last Name: Siglinda West

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

Title: Regulatory Compliance Specialist

Mailing Address: 6781 Oak Hill Blvd.

City, State, Zip Code: Tyler, Texas 75703

Phone No.: 903.581.8141 Ext.: 1314 Fax No.: 888.224.9418

E-mail Address: swest@ksaeng.com

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

City of Palestine

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 Bassett Creek; Thence to Town Creek; Thence to Keechie Creek; Thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

No Construction, No Impacts

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

No existing disturbances

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:

Renewal Permit

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

Renewal Permit

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): 4.7

2-Hr Peak Flow (MGD): 10.310

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

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.**

Town creek is an activated sludge process plant operated in the extended aeration mode. Treatment units include bar screen, grit chamber, a Parshall flume, an oxidation ditch, three final clarifiers, an aerobic digester, a sludge dewatering centrifuge, sludge drying beds, two chlorine contact chambers and a dichlorination chamber.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
SEE ATTACHMENT No. 8		

C. Process Flow Diagram

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

Attachment: Attachment No.9

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

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

- Latitude: 31, 42', 32.88"
- Longitude: 95, 42', 15.32"

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

- Latitude: NOT APPLICABLE
- Longitude: NOT APPLICABLE

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: No. 10 (Site Drawing) and No. 11 (Service Area)

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

City of Palestine

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
City of Palestine	City of Palestine	Publicly Owned	15,000
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

NOT APPLICABLE

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.

NOT APPLICABLE

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: UNKNOWN

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

SEE ATTACHMENT No. 12

C. Other actions required by the current permit

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

☐ Yes ☐ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

NOT APPLICABLE

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.

NOT APPLICABLE

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.

NOT APPLICABLE

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 EY14 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:

NOT APPLICABLE

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.

NOT APPLICABLE

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.

NOT APPLICABLE

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.

NOT APPLICABLE

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

NOT APPLICABLE

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☒ Yes ☐ No

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

☐ Yes ☒ No

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

☒ Yes ☐ No

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

SAME AS PREVIOUS

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.

NOT APPLICABLE

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

Is the facility in operation?

☒ Yes ☐ No SEE ATTCHMENT 13

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	2.88		1	Grab	10/16/24
Total Suspended Solids, mg/l	3		1	Grab	10/16/24
Ammonia Nitrogen, mg/l	0.0663		1	Grab	10/16/24
Nitrate Nitrogen, mg/l	4.51		1	Grab	12/19/24
Total Kjeldahl Nitrogen, mg/l	<0.4		1	Composite	11/06/24
Sulfate, mg/l	82.1		1	Composite	11/06/24
Chloride, mg/l	68		1	Composite	11/06/24
Total Phosphorus, mg/l	2.19		1	Composite	11/06/24
pH, standard units	6.8		1	Grab	2/13/24
Dissolved Oxygen*, mg/l	9.2		1	Grab	2/13/24
Chlorine Residual, mg/l	0.01		1	Grab	2/13/24
E.coli (CFU/100ml) freshwater	<1		1	Grab	10/16/24
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	640		1	Grab	2/13/24
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<4.60		1	Grab	12/19/23
Alkalinity ($CaCO_3$)*, mg/l	26		1	Composite	11/06/24

*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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Benjamin Day

Facility Operator's License Classification and Level: B

Facility Operator's License Number: WW0063662

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☒ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: 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
Distribution & Marketing-Composting	Off-site Third-Party Handler or Preparer	Bulk		Class B: PSRP Aerobic Digestion	Option 7: Stabilized sludge is >=75% solids
Disposal in Landfill	Off-site Third-Party Preparer	Bulk		Class B: Density of Fecal Coliform	Option 7: Stabilized sludge is >=75% 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): Transport to composting facility

D. Disposal site

Disposal site name: Neches Composting Facility

TCEQ permit or registration number: 42011

County where disposal site is located: Cherokee

E. Transportation method

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

Name of the hauler: ANRA

Hauler registration number: 22893

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: NOT APPLICABLE
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: NOT APPLICABLE
- Federal Emergency Management Map:

  Attachment: NOTAPPLICABLE
- Site map:

  Attachment: NOT APPLICABLE

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: NOT APPLICABLE

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:

NOT APPLICABLE

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: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

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

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

Volume and frequency of sludge to the lagoon(s): N/A

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

Total dry tons stored in the lagoons(s) over the life of the unit: N/A

C. Liner information

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

☐ Yes ☒ No

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

NOT APPLICABLE

D. Site development plan

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

NOT APPLICABLE

Attach the following documents to the application.

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

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

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

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

  Attachment: N/A
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

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: NOT APPLICABLE

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:

Pretreatment TX0025453000, Pretreatment WQ0010244001, Stormwater TXR05EY

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:

NOT APPLICABLE

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: NOT APPLICABLE

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: Mitchell Jordan

Title: MAYOR

Signature: Mitchell Jordan

Date: 12-3-2024

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

RENEWAL PERMIT

B. Regionalization of facilities

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

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

1. ***Municipally incorporated areas***

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

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

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: NOT APPLICABLE

If yes, attach correspondence from the city.

Attachment: NOT APPLICABLE

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

Attachment: NOT APPLICABLE

2. ***Utility CCN areas***

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

☐ Yes ☒ No

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

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

Attachment: NOT APPLICABLE

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

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

☐ Yes ☒ No

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

Attachment: NOT APPLICABLE

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

Attachment: NOT APPLICABLE

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

Attachment: NOT APPLICABLE

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☒ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): N/A

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

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

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

NOT APPLICABLE – PERMIT RENEWAL ONLY

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: N/A mg/l after N/A minutes detention time at peak flow

Dechlorination process: N/A

☒ Ultraviolet Light: N/A seconds contact time at peak flow

☐ Other: N/A

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: NOT APPLICABLE

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

☒ Yes ☐ No

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

NOT APPLICABLE

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

NOT APPLICABLE

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

☐ Yes ☒ No

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

☐ Yes ☒ No

If yes, provide the permit number: NOT APPLICABLE

If no, provide the approximate date you anticipate submitting your application to the Corps: NOT APPLICABLE

B. Wind rose

Attach a wind rose: NOT APPLICABLE

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

A. Beneficial use authorization

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

☐ Yes ☒ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: NOT APPLICABLE

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: NOT APPLICABLE Sludge transported to composting facility

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

Attach a solids management plan to the application.

Attachment: NOT APPLICABLE

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

Owner of the drinking water supply: 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).

NOT APPLICABLE

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).

NOT APPLICABLE

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: BASSETT CREEK

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: N/A

Average depth of the entire water body, in feet: N/A

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

☐ 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: Click to enter text.

C. Downstream perennial confluences

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

Town Creek, Keechie Creek

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.

NOT APPLICABLE

E. Normal dry weather characteristics

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

Effluent is clear, no visible foam, no obstructions, flowing normally

Date and time of observation: 11/13/2024 10:00 am

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: Click to enter text.

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 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: NOT APPLICABLE Time of study: Click to enter text.

Stream name: INTERMITTENT STREAMS

Location: Click to enter text.

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: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

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.

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: 002

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): 5.0

Length of stream evaluated, in feet: 0.5 miles

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

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

Size of pools (large, small, moderate, none): Click to enter text.

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☒ Other (describe in detail): NO LAND DISPOSAL OF EFFLUENT

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

For existing authorizations, provide Registration Number: N/A

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
NOT APPLICABLE	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

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

Attachment: NOT APPLICABLE

Section 4. Flood and Runoff Protection (Instructions Page 68)

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

☐ Yes ☒ No

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

NOT APPLICABLE

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

NOT APPLICABLE

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

NOT APPLICABLE

Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment: NOT APPLICABLE**

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

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
N/A	N/A	N/A	Choose an item.	NOT APPLICABLE
N/A	N/A	N/A	Choose an item.	NOT APPLICABLE
N/A	N/A	N/A	Choose an item.	NOT APPLICABLE
N/A	N/A	N/A	Choose an item.	NOT APPLICABLE
N/A	N/A	N/A	Choose an item.	NOT APPLICABLE

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

Attachment: NOT APPLICABLE

Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: NOT APPLICABLE

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: NOT APPLICABLE

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

A. Soil map

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

Attachment: NOT APPLICABLE

B. Soil analyses

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

Attachment: NOT APPLICABLE

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A
NOT APPLICABLE	N/A	N/A	N/A	N/A	N/A	N/A

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

NOT APPLICABLE

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

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: **NOT APPLICABLE**

Design application frequency:

hours/day N/ **And** days/week N/A

Land grade (slope):

average percent (%): N/A

maximum percent (%): N/A

Design application rate in acre-feet/acre/year: N/A

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

Soil conductivity (mmhos/cm): N/A

Method of application: N/A

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

Attachment: NOT APPLICABLE

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: N/A

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

Attachment: NOT APPLICABLE

C. Evapotranspiration beds

Number of beds: N/A

Area of bed(s), in acres: N/A

Depth of bed(s), in feet: N/A

Void ratio of soil in the beds: N/A

Storage volume within the beds, in acre-feet: N/A

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

Attachment: NOT APPLICABLE

D. Overland flow

Area used for application, in acres: NOT APPLICABLE

Slopes for application area, percent (%): N/A

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

Slope length, in feet: N/A

Design BOD_5 loading rate, in lbs BOD_5/acre/day: N/A

Design application frequency:

hours/day: N/A **And** days/week: N/A

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

Attachment: NOT APPLICABLE

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: NOT APPLICABLE

Application area, in acres: N/A

Area of drainfield, in square feet: N/A

Application rate, in gal/square foot/day: N/A

Depth to groundwater, in feet: N/A

Area of trench, in square feet: N/A

Dosing duration per area, in hours: N/A

Number of beds: N/A

Dosing amount per area, in inches/day: N/A

Infiltration rate, in inches/hour: N/A

Storage volume, in gallons: N/A

Area of bed(s), in square feet: N/A

Soil Classification: N/A

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

Attachment: NOT APPLICABLE

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

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

Section 1. Administrative Information (Instructions Page 75)

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

B. **NOT APPLICABLE** Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

NOT APPLICABLE

C. Owner of the subsurface area drip dispersal system: N/A

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

☐ Yes ☒ No

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

NOT APPLICABLE

E. Owner of the land where the subsurface area drip dispersal system is located: **NOT APPLICABLE**

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

☐ Yes ☐ No

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

NOT APPLICABLE

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: NOT APPLICABLE

B. Irrigation operations

Application area, in acres: N/A

Infiltration Rate, in inches/hour: N/A

Average slope of the application area, percent (%): N/A

Maximum slope of the application area, percent (%): N/A

Storage volume, in gallons: N/A

Major soil series: N/A

Depth to groundwater, in feet: N/A

C. Application rate

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

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

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

☐ Yes ☒ No

Hydraulic application rate, in gal/square foot/day: **NOT APPLICABLE**

Nitrogen application rate, in lbs/gal/day: **NOT APPLICABLE**

D. Dosing information

Number of doses per day: N/A

Dosing duration per area, in hours: N/A

Rest period between doses, in hours: N/A

Dosing amount per area, in inches/day: N/A

Number of zones: N/A

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

☐ Yes ☐ No

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

Attachment: NOT APPLICABLE

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

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

Attachment: **NOT APPLICABLE**

B. Soil evaluation

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

Attachment: **NOT APPLICABLE**

C. Site preparation plan

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

Attachment: **NOT APPLICABLE**

D. Soil sampling/testing

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

Attachment: **NOT APPLICABLE**

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: **NOT APPLICABLE**

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

A. Buffer Map

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

Attachment: **NOT APPLICABLE**

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: NOT APPLICABLE

Section 6. Edwards Aquifer (Instructions Page 76)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☒ Composite ☐

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

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<1.00		1	50
Aldrin	<0.0103		1	0.01
Aluminum	14.1		1	2.5
Anthracene	<0.994		1	10
Antimony	<3.0		1	5
Arsenic	0.864		1	0.5
Barium	19.1		1	3
Benzene	<1.00		1	10
Benzidine	<19.9		1	50
Benzo(a)anthracene	<0.994		1	5
Benzo(a)pyrene	<0.994		1	5
Bis(2-chloroethyl)ether	<0.994		1	10
Bis(2-ethylhexyl)phthalate	<0.746		1	10
Bromodichloromethane	8.72		1	10
Bromoform	<1.00		1	10
Cadmium	<0.5		1	1
Carbon Tetrachloride	<1.00		1	2
Carbaryl	<2.58		1	5
Chlordane*	<2.00		1	0.2
Chlorobenzene	<1.00		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	8.72		1	10
Chloroform	33.8		1	10
Chlorpyrifos	<0.050		1	0.05
Chromium (Total)	<1.0		1	3
Chromium (Tri) **(*1)**	<3.0		1	N/A
Chromium (Hex)	<3.0		1	3
Copper	<1.0		1	2
Chrysene	<0.994		1	5
p-Chloro-m-Cresol	<2.39		1	10
4,6-Dinitro-o-Cresol	<7.95		1	50
p-Cresol	<6.16		1	10
Cyanide **(*2)**	<5.00		1	10
4,4'- DDD	<0.0103		1	0.1
4,4'- DDE	<0.0103		1	0.1
4,4'- DDT	<0.0103		1	0.02
2,4-D	<0.507		1	0.7
Demeton (O and S)	<0.0515		1	0.20
Diazinon	<0.0515		1	0.5/0.1
1,2-Dibromoethane	<1.00		1	10
m-Dichlorobenzene	<1.00		1	10
o-Dichlorobenzene	<1.00		1	10
p-Dichlorobenzene	<1.00		1	10
3,3'-Dichlorobenzidine	<4.97		1	5
1,2-Dichloroethane	<1.00		1	10
1,1-Dichloroethylene	<1.00		1	10
Dichloromethane	<1.02		1	20
1,2-Dichloropropane	<1.00		1	10
1,3-Dichloropropene	<1.03		1	10
Dicofol	<0.0515		1	1
Dieldrin	<0.0103		1	0.02
2,4-Dimethylphenol	<2.39		1	10
Di-n-Butyl Phthalate	<7.46		1	10
Diuron	<0.0464		1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.010		1	0.01
Endosulfan II (beta)	<0.0103		1	0.02
Endosulfan Sulfate	<0.0103		1	0.1
Endrin	<0.0103		1	0.02
Ethylbenzene	<1.00		1	10
Fluoride	<500		1	500
Guthion	<0.0515		1	0.1
Heptachlor	<0.010		1	0.01
Heptachlor Epoxide	<0.0103		1	0.01
Hexachlorobenzene	<0.994		1	5
Hexachlorobutadiene	<0.994		1	10
Hexachlorocyclohexane (alpha)	<0.0103		1	0.05
Hexachlorocyclohexane (beta)	<0.0103		1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0103		1	0.05
Hexachlorocyclopentadiene	<8.95		1	10
Hexachloroethane	<0.994		1	20
Hexachlorophene	<2.59		1	10
Lead	<0.5		1	0.5
Malathion	<0.0515		1	0.1
Mercury	<0.200		1	0.005
Methoxychlor	<0.0103		1	2
Methyl Ethyl Ketone	<1.00		1	50
Mirex	<0.0103		1	0.02
Nickel	2.37		1	2
Nitrate-Nitrogen	4.51		1	100
Nitrobenzene	<0.994		1	10
N-Nitrosodiethylamine	<0.994		1	20
N-Nitroso-di-n-Butylamine	<0.994		1	20
Nonylphenol	<35.3		1	333
Parathion (ethyl)	<0.0515		1	0.1
Pentachlorobenzene	<0.994		1	20
Pentachlorophenol	<0.994		1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<0.994		1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.200		1	0.2
Pyridine	<5.37		1	20
Selenium	<2.00		1	5
Silver	<0.200		1	0.5
1,2,4,5-Tetrachlorobenzene	<00994		1	20
1,1,2,2-Tetrachloroethane	<1.00		1	10
Tetrachloroethylene	<1.00		1	10
Thallium	<0.500		1	0.5
Toluene	<1.00		1	10
Toxaphene	<0.206		1	0.3
2,4,5-TP (Silvex)	<0.300		1	0.3
Tributyltin (see instructions for explanation)	<0.00712		1	0.01
1,1,1-Trichloroethane	<1.00		1	10
1,1,2-Trichloroethane	<1.00		1	10
Trichloroethylene	<1.00		1	10
2,4,5-Trichlorophenol	<0.994		1	50
TTHM (Total Trihalomethanes)	0.04435		1	10
Vinyl Chloride	<1.00		1	10
Zinc	4.57		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: 12/19.2023

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	<3.00		1	5
Arsenic	0.864		1	0.5
Beryllium	<0.500		1	0.5
Cadmium	<0.500		1	1
Chromium (Total)	<1.00		1	3
Chromium (Hex)	<3.00		1	3
Chromium (Tri) **(*1)**	<3.00		1	N/A
Copper	<1.00		1	2
Lead	<0.500		1	0.5
Mercury	<0.200		1	0.005
Nickel	2.37		1	2
Selenium	<2.00		1	5
Silver	<0.200		1	0.5
Thallium	<0.500		1	0.5
Zinc	45.70		1	5
Cyanide **(*2)**	6.00		1	10
Phenols, Total	10.00		1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<4.00		1	50
Acrylonitrile	<1.00		1	50
Benzene	<1.00		1	10
Bromoform	<1.00		1	10
Carbon Tetrachloride	<1.00		1	2
Chlorobenzene	<1.00		1	10
Chlorodibromomethane	1.83		1	10
Chloroethane	<1.12		1	50
2-Chloroethylvinyl Ether	<1.00		1	10
Chloroform	33.8		1	10
Dichlorobromomethane [Bromodichloromethane]	8.72		1	10
1,1-Dichloroethane	<1.00		1	10
1,2-Dichloroethane	<1.00		1	10
1,1-Dichloroethylene	<1.00		1	10
1,2-Dichloropropane	<1.00		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<1.00		1	10
1,2-Trans-Dichloroethylene	<1.00		1	10
Ethylbenzene	<1.00		1	10
Methyl Bromide	<1.00		1	50
Methyl Chloride	<1.00		1	50
Methylene Chloride	<1.02		1	20
1,1,2,2-Tetrachloroethane	<1.00		1	10
Tetrachloroethylene	<1.00		1	10
Toluene	<1.00		1	10
1,1,1-Trichloroethane	<1.00		1	10
1,1,2-Trichloroethane	<1.00		1	10
Trichloroethylene	<1.00		1	10
Vinyl Chloride	<1.00		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	<0.994		1	10
2,4-Dichlorophenol	<0.994		1	10
2,4-Dimethylphenol	<0.239		1	10
4,6-Dinitro-o-Cresol	<7.95		1	50
2,4-Dinitrophenol	<8.95		1	50
2-Nitrophenol	<0.994		1	20
4-Nitrophenol	<0.994		1	50
P-Chloro-m-Cresol	<616		1	10
Pentalchlorophenol	<0.994		1	5
Phenol	10.0		1	10
2,4,6-Trichlorophenol	<0.994		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	<0.994		1	10
Acenaphthylene	<0.994		1	10
Anthracene	<0.994		1	10
Benzidine	<19.9		1	50
Benzo(a)Anthracene	<0.994		1	5
Benzo(a)Pyrene	<0.994		1	5
3,4-Benzofluoranthene	<0.994		1	10
Benzo(ghi)Perylene	<0.994		1	20
Benzo(k)Fluoranthene	<0.994		1	5
Bis(2-Chloroethoxy)Methane	<0.994		1	10
Bis(2-Chloroethyl)Ether	<0.994		1	10
Bis(2-Chloroisopropyl)Ether	<0.994		1	10
Bis(2-Ethylhexyl)Phthalate	<0.746		1	10
4-Bromophenyl Phenyl Ether	<0.994		1	10
Butyl benzyl Phthalate	<7.46		1	10
2-Chloronaphthalene	<0.994		1	10
4-Chlorophenyl phenyl ether	<0.994		1	10
Chrysene	<0.994		1	5
Dibenzo(a,h)Anthracene	<0.994		1	5
1,2-(o)Dichlorobenzene	<0.994		1	10
1,3-(m)Dichlorobenzene	<0.994		1	10
1,4-(p)Dichlorobenzene	<0.994		1	10
3,3-Dichlorobenzidine	<4.97		1	5
Diethyl Phthalate	<5.67		1	10
Dimethyl Phthalate	<4.77		1	10
Di-n-Butyl Phthalate	<7.46		1	10
2,4-Dinitrotoluene	<3.48		1	10
2,6-Dinitrotoluene	<0.994		1	10
Di-n-Octyl Phthalate	<0.994		1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.994		1	20
Fluoranthene	<0.994		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.994		1	10
Hexachlorobenzene	<0.994		1	5
Hexachlorobutadiene	<0.994		1	10
Hexachlorocyclo-pentadiene	<8.95		1	10
Hexachloroethane	<0.994		1	20
Indeno(1,2,3-cd)pyrene	<0.994		1	5
Isophorone	<0.994		1	10
Naphthalene	<0.994		1	10
Nitrobenzene	<0.994		1	10
N-Nitrosodimethylamine	<6.96		1	50
N-Nitrosodi-n-Propylamine	<0.994		1	20
N-Nitrosodiphenylamine	<0.994		1	20
Phenanthrene	<0.994		1	10
Pyrene	<0.994		1	10
1,2,4-Trichlorobenzene	<0.994		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	<0.0103		1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0103		1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0103		1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0103		1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0103		1	0.05
Chlordane	<0.200		1	0.2
4,4-DDT	<0.0103		1	0.02
4,4-DDE	<0.0103		1	0.1
4,4,-DDD	<0.0103		1	0.1
Dieldrin	<0.0103		1	0.02
Endosulfan I (alpha)	<0.010		1	0.01
Endosulfan II (beta)	<0.0103		1	0.02
Endosulfan Sulfate	<0.0103		1	0.1
Endrin	<0.0103		1	0.02
Endrin Aldehyde	<0.0103		1	0.1
Heptachlor	<0.010		1	0.01
Heptachlor Epoxide	<0.0103		1	0.01
PCB-1242	<0.200		1	0.2
PCB-1254	<0.200		1	0.2
PCB-1221	<0.200		1	0.2
PCB-1232	<0.200		1	0.2
PCB-1248	<0.200		1	0.2
PCB-1260	<0.200		1	0.2
PCB-1016	<0.200		1	0.2
Toxaphene	<0.206		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.

NOT APPLICABLE

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.

NOT APPLICABLE

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: 03/25/2024 SEE ATTACHMENT No. 15

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1	ND				10
1,2,3,7,8 PeCDD	0.5	2.24				50
2,3,7,8 HxCDDs	0.1	3.80				50
1,2,3,4,6,7,8 HpCDD	0.01	6.66				50
2,3,7,8 TCDF	0.1	ND				10
1,2,3,7,8 PeCDF	0.05	2.91				50
2,3,4,7,8 PeCDF	0.5	3.94				50
2,3,7,8 HxCDFs	0.1	N/A				50
2,3,4,7,8 HpCDFs	0.01	3.38				50
OCDD	0.0003	56.4				100
OCDF	0.0003	95.6				100
PCB 77	0.0001	N/A				0.5
PCB 81	0.0003	N/A				0.5
PCB 126	0.1	N/A				0.5
PCB 169	0.03	N/A				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: 14

48-hour Acute: 8

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

NOT APPLICABLE

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	SEE ATTACHMENT 16		

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: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: Click to enter text.

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

Other IUs:

Number of IUs: Click to enter text.

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

B. Treatment plant interference

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

☐ Yes ☒ No

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

NONE

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.

NOT APPLICABLE

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.

Click to enter text.

B. Non-substantial modifications

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

☒ Yes ☐ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

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

A. General information

Company Name: Sanderson Farms (Hatchery)

SIC Code: 0254

Contact name: Plant Manager

Address: 400 Willow Creek Parkway

City, State, and Zip Code: Palestine Texas 75801

Telephone number: 903.727.2034

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).

Chicken hatchery

C. Product and service information

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

Chickens for further processing for human consumption

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: 20,000

Discharge Type: ☒ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 3,500

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: 122.23

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.

NOT APPLICABLE

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): NOT APPLICABLE

Program ID: N/A

Contact Name: N/A

Phone Number: N/A

2. Agent/Consultant Contact Information

Contact Name: N/A

Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: N/A

Contact Name: N/A

Address: N/A

City, State, and Zip Code: N/A

Phone Number: N/A

4. Facility Contact Information

Facility Name: N/A

Address: N/A

City, State, and Zip Code: N/A

Location description (if no address is available): N/A

Facility Contact Person: N/A

Phone Number: N/A

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

Latitude: N/A

Longitude: N/A

Method of determination (GPS, TOPO, etc.): N/A

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: N/A

7. **Purpose**

Detailed Description regarding purpose of Injection System:

NOT APPLICABLE

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

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: N/A

City, State, and Zip Code: N/A

Phone Number: N/A

License Number: N/A

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: N/A

System(s) Construction: N/A

Section 4. Site Hydrogeological and Injection Zone Data

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

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

   Name: N/A

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

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

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

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

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

Section 5. Site History

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

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

Class V Injection Well Designations

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

ATTACHMENT No. 1

Core Data Form

Page 4, Section 3.c

Administrative Report

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

2. Customer Reference Number (*if issued*)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (*if issued*)
CN 600622922		RN 102183233

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 11/1/2024

☐ 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)

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

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

City of Palestine

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (*if applicable*)
		75-6000632	

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

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

13. Independently Owned and Operated?
☒ Yes ☐ No

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

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

15. Mailing Address: 504 North Queen

City	Palestine	State	TX	ZIP	75801	ZIP + 4	

16. Country Mailing Information (*if outside USA*)	17. E-Mail Address (*if applicable*)
	bday@palestine-tx.org

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

(903) 731-8405		( ) -

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.)*

Town Creek Wastewater Treatment Plant

23. Street Address of the Regulated Entity: *(No PO Boxes)*	800 Private Road 6078							
	City	Palestine	**State**	TX	**ZIP**	75801	**ZIP + 4**	
24. County	Anderson							

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

25. Description to Physical Location:					
26. Nearest City			**State**	**Nearest ZIP Code**	
Palestine			TX	75801	

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:	31.726530 N		**28. Longitude (W) In Decimal:**	95.706402W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	43	32.88	95	42	15.32

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Treatment of domestic wastewater

34. Mailing Address:	**504 North Queen**							
	City	**Palestine**	**State**	**TX**	**ZIP**	**75801**	**ZIP + 4**	
35. E-Mail Address:	**bday@palestine-tx.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(903) 731-8405		( ) -

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
	TXR05EY14			
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other: Wastewater Authorization/
	WQ0010244001			R10244001/

SECTION IV: Preparer Information

40. Name:	Siglinda West		41. Title:	Regulatory Compliance Specialist
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(903) 581-8141	1413	(888) 224-9418	swest@ksaeng.com	

SECTION V: Authorized Signature

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

Company:	City of Palestine	**Job Title:**	Mayor
Name *(In Print):*	Mitchell Jordan	**Phone:**	**(903) 221**-4591
Signature:	Mitchell Jordan	**Date:**	12-3-2024

ATTACHMENT No. 2

Plain Language Summary

(English)

Page 7, Section 8.F.

Administrative Report

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Plain Language Summary

Page 7, Section 8.F.

Administrative Report

City of Palestine (CN600622922) operates Town Creek Wastewater Treatment Plant (RN102183233), a domestic wastewater treatment facility. The facility is located at 800 Private Road 6078, in Palestine, Anderson County, Texas 75801. The City of Palestine has applied for the renewal of the TPDES discharge permit authorizing the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,700,000 gallons per day.

Discharges from the facility are expected to contain CBOD5, Total Suspended Solids, Ammonia Nitrogen, Nitrate Nitrogen, Total Kjeldahl Nitrogen, Sulfate, Chloride, Total Phosphorus, pH, Dissolved Oxygen, E.coli, Total Dissolved Solids, Oil and Grease, and Alkalinity. Domestic wastewater is treated by activated sludge process with a bar screen, aeration basin, final clarifiers, aerobic digester, centrifuge, chlorine contact chamber and de-chlorination chamber.

ATTACHMENT No. 3

Plain Language Summary

(Spanish)

Page 7, Section 8.F.

Administrative Report

COMISIÓN DE CALIDAD AMBIENTAL DE TEXAS

Resumen en lenguaje sencillo

(Traducido)

Page 7, Section 8.F.

Administrative Report

La Ciudad de Palestine (CN600622922) opera la Planta de Tratamiento de Aguas Residuales Town Creek (RN102183233), una instalación de tratamiento de aguas residuales domésticas. La instalación está ubicada en 800 Prívate Road 6078, en Palestine, Anderson County, Texas 75801. La Ciudad de Palestine ha solicitado la renovación del permiso de descarga TPDES que autoriza la descarga de aguas residuales tratadas a un volumen que no exceda un flujo promedio anual de 4,700,000 galones por día.

Se espera que las descargas de la instalación contengan CBOD5, sólidos suspendidos totales, nitrógeno amoniacal, nitrógeno nítrico, nitrógeno Kjeldahl total, sulfato, cloruro, fósforo total, pH, oxígeno disuelto, E.coli, sólidos disueltos totales, aceite y grasa, y alcalinidad. Las aguas residuales domésticas se tratan mediante un proceso de lodo activado con una criba de barras, una cuenca de aireación, clarificadores finales, un digestor aeróbico, una centrífuga, una cámara de contacto con cloro y una cámara de decloración.

ATTACHMENT No. 4

Public Information Plan Form

Page 7, Section 8.G.

Administrative Report

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application
☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,
☐ Considered to have significant public interest, **and**
☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Renewal of the existing TPDES discharge permit renewal.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

☐ Texas Land Application Permit (TLAP)

☐ State Only Concentrated Animal Feeding Operation (CAFO)

☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Renewal of the existing wastewater treatment plant discharge permit renewal.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

Palestine

(City)

Anderson

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☒ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

Black 24.77%, Asian 0.07%, Hispanic 22.2%, Nat. American 0.49%, Mixed 2.6%, Other 0.33%, White 64.60%

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☒ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☒ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☒ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☑ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify) Available at City Hall

(d) Is there an opportunity for some type of public meeting, including after notice?

☒ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☑ TCEQ Central Office

☑ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☒ Yes ☐ No

What types of notice will be provided?

☒ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT No. 5

USGS Map

Page 10, Section 13

Administrative Report

KSA
6781 Oak Hill blvd. Tyler, Texas 75703
T.903.581.8141 F.888.224.9418
www.ksaeng.com
TBPE Firm Registration No. F-1356

CITY OF PALESTINE
TOWN CREEK WWTP
PERMIT RENEWAL
WQ0010244001 TX0025453

ATTACHMENT No. 5
USGS MAP
Page 10, Section 13
Administrative Report

ATTACHMENT No. 5

ATTACHMENT No. 6

USGS Map (SPIF)

Page 2 Item 5

Supplemental Permit Information Form

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WQ0010244001 TX0025453

ATTACHMENT No. 6
USGS MAP
Page 2, Item 5
SPIF Report

ATTACHMENT No. 6

ATTACHMENT No. 7

General Location Map

Page 2, Item 5

Supplemental Permit Information Form

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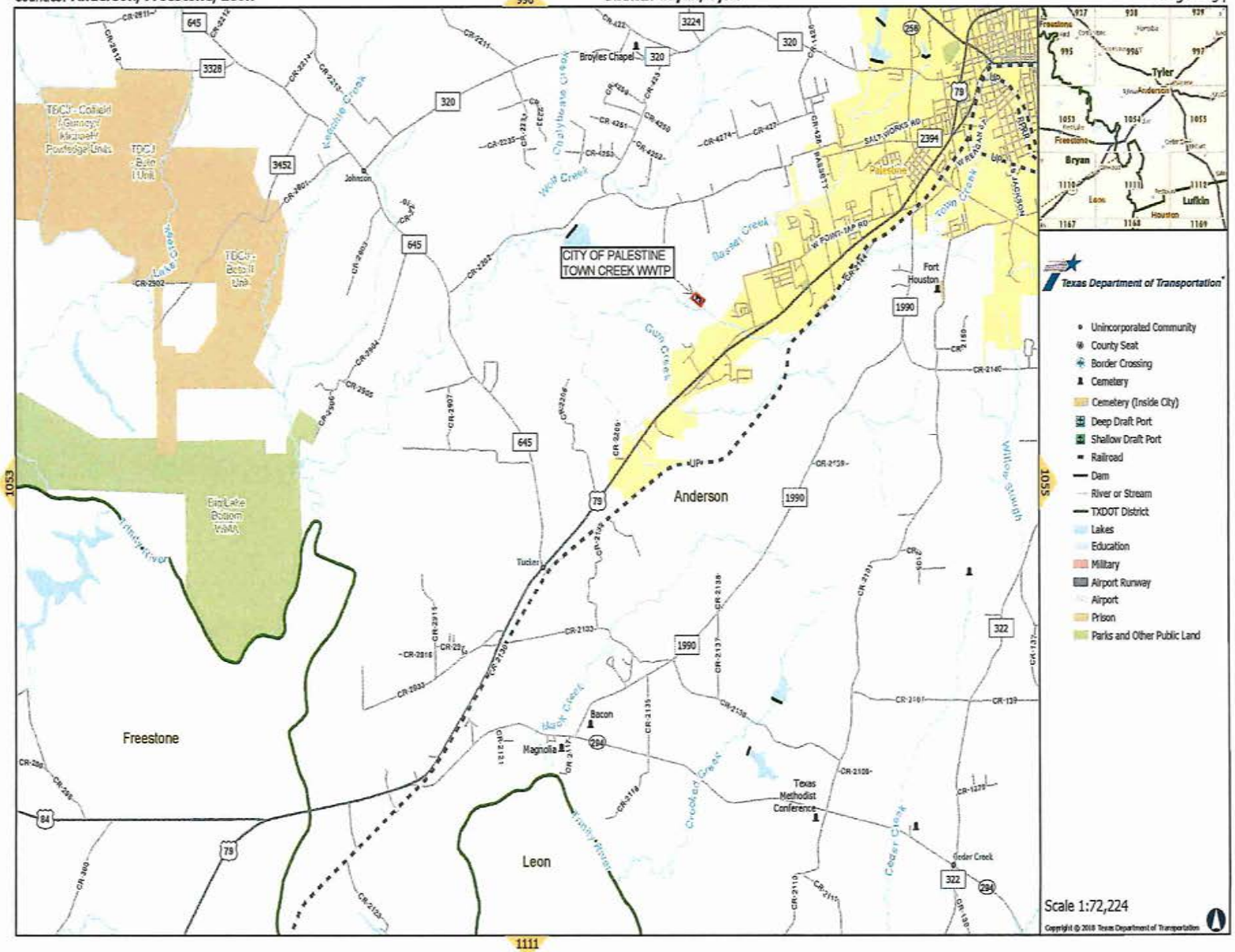
TOWN CREEK WWTP
PERMIT RENEWAL
WQ0010244001 TX0025453

ATTACHMENT No. 7 LOCATION MAP
Page 2, Item 5
SPIF Report

ATTACHMENT
No. 7



ATTACHMENT No. 8

Treatment Units

Page 2, Section 2.B.

Technical Report

CITY OF PALESTINE

TPDES Permit No. WQ0010244001
NPDES Permit No. TX0025453

ATTACHMENT No. 8
TREATMENT UNITS

Page 2, Section 2.B

Technical Report

UNIT TYPE	No. OF UNITS	UNIT SIZE
Bar Screen	1	2.5'
Grit Chamber		9' x 10' Deep
Parshall Flume		
Oxidation Ditch	1	2,050,000 gallons, 8' depth
Aerobic Digester	1	98,145'
Clarifiers	3	2@ 71' Dia. 10' SWD 1@ 71' Dia. 13' SWD
Chlorine Contact Chamber	2	10,908'
De-Chlorination Chamber		
Centrifuge	1	13' 6" x 57' 4" L
Sludge Drying Beds		

ATTACHMENT No. 9

Flow Diagram

Page 2, Section 2.C.

Technical Report

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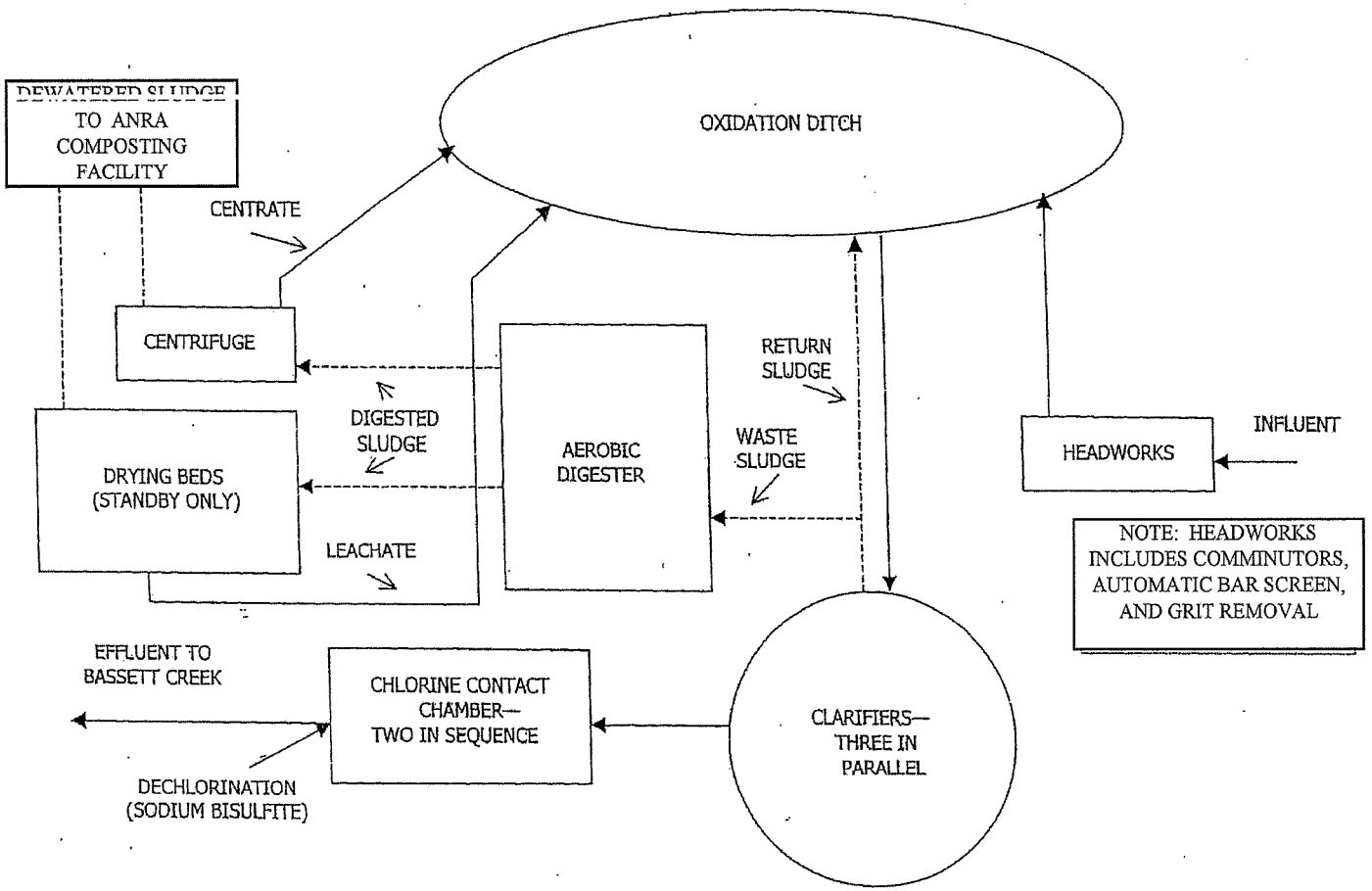
CITY OF PALESTINE
TOWN CREEK WWTP
PERMIT RENEWAL
WQ0010244001 TX0025453

ATTACHMENT No. 9
FLOW DIAGRAM
Page 2, Section 2.C
Technical Report

ATTACHMENT
No. 9

ATTACHMENT No. 9

FLOW DIAGRAM
Page 2, Section 2.C.
Technical Report

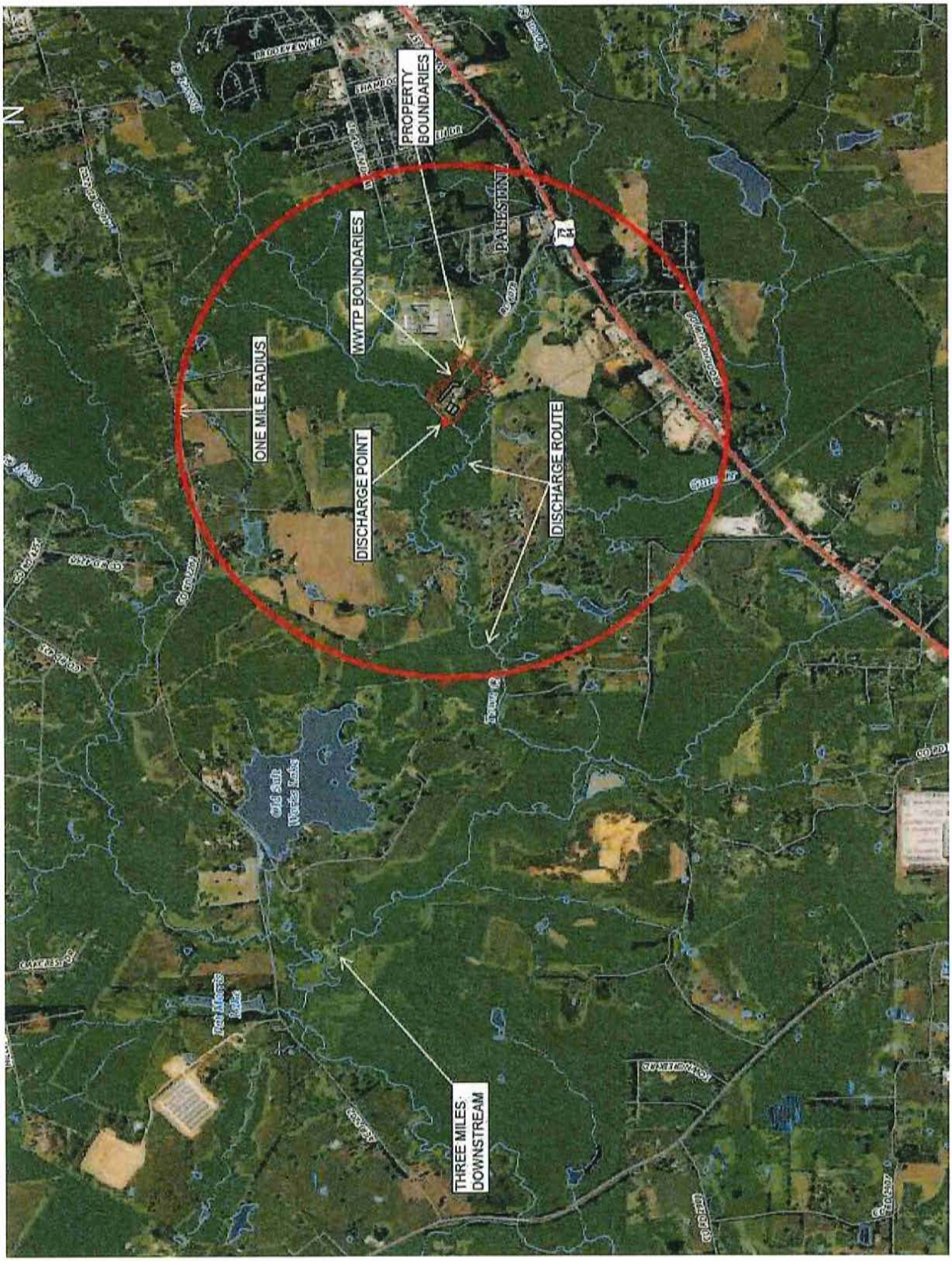


ATTACHMENT No. 10

Site Drawing

Page 2, Section 3

Technical Report



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ATTACHMENT No. 10
SITE MAP
Page 2, Section 3
Technical Report

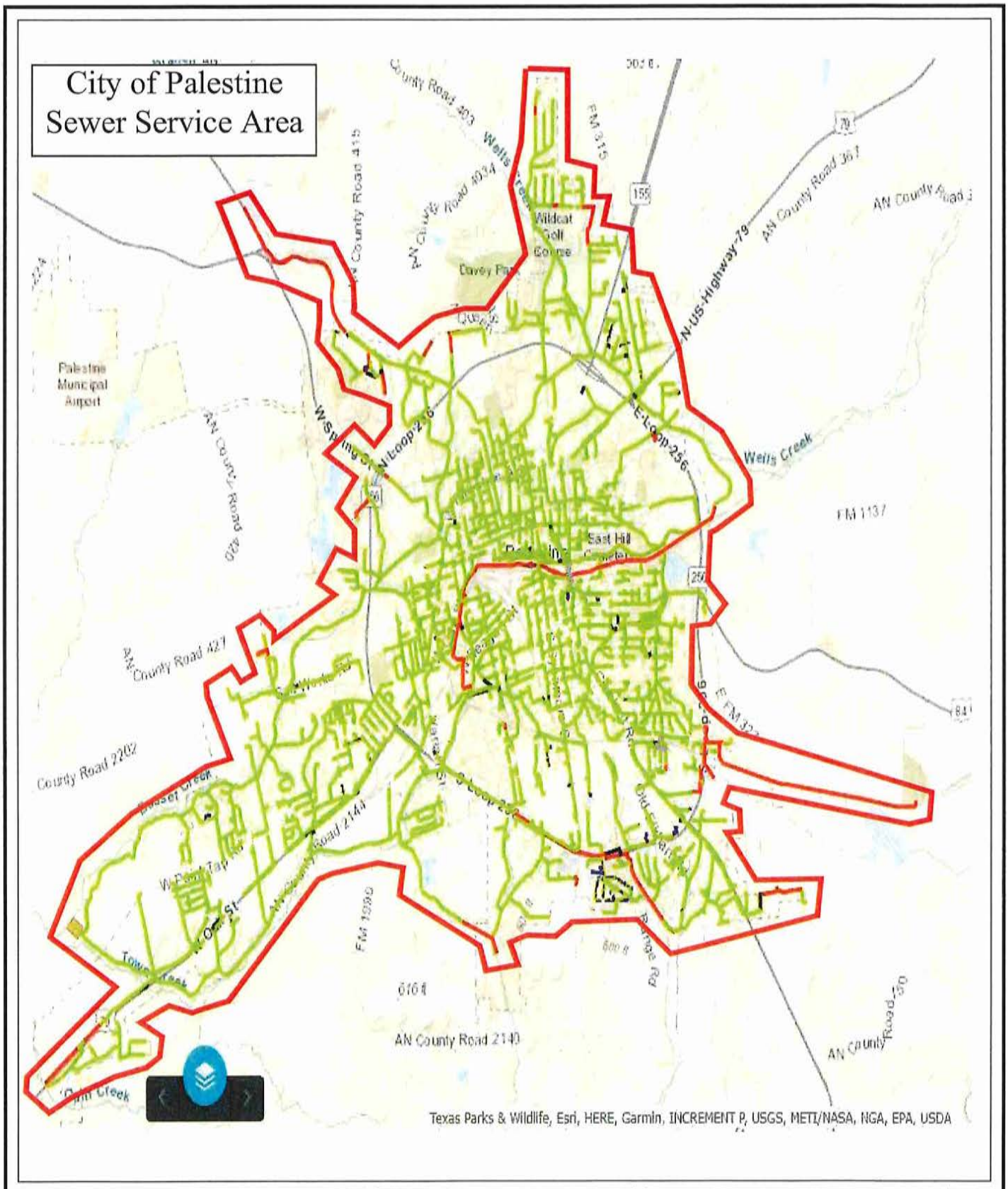
ATTACHMENT No. 10

ATTACHMENT No. 11

Service Area

Page 2, Section 3

Technical Report



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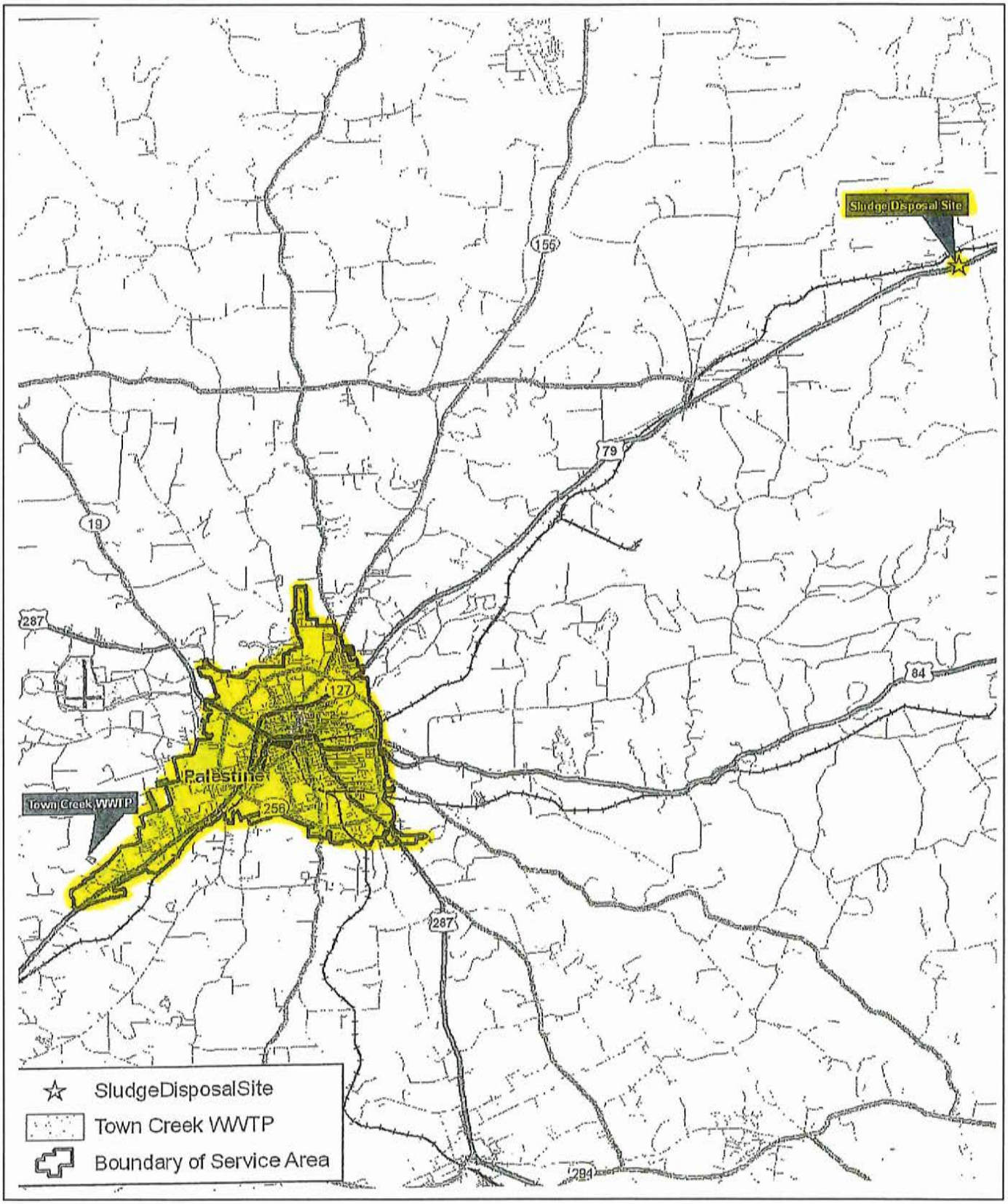
ATTACHMENT No. 11
SERVICE AREA MAP
Page 2, Section 3
Technical Report

ATTACHMENT No. 11



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ATTACHMENT No. 11
Sludge Disposal MAP
Page 13, Section 9.a
Technical Report

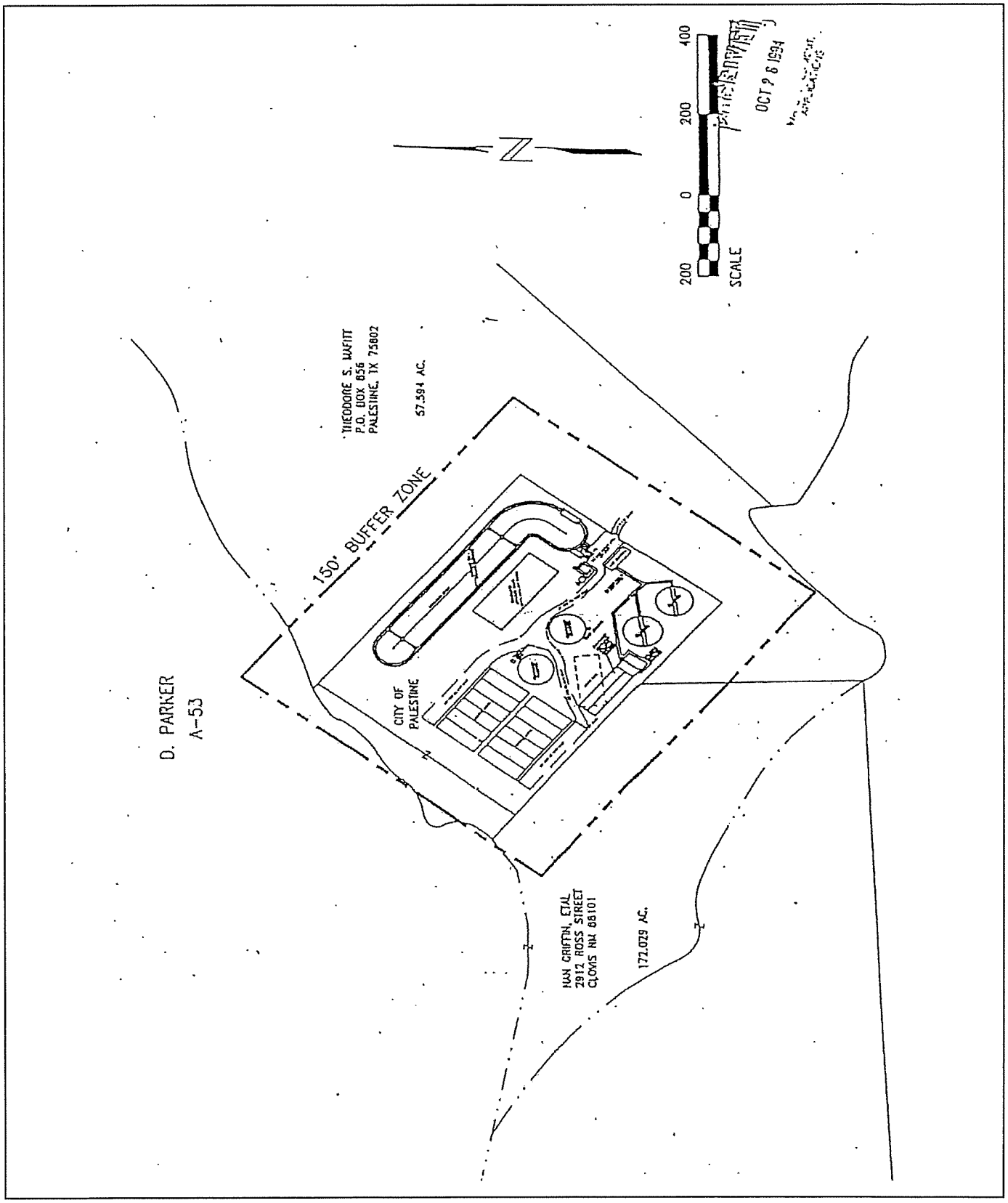
ATTACHMENT No. 11

ATTACHMENT No. 12

Buffer Zone Map

Page 4, Section 6.B.

Technical Report



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CITY OF PALESTINE
TOWN CREEK WWTP
PERMIT RENEWAL
WQ0010244001 TX0025453

ATTACHMENT No. 12
BUFFER ZONE MAP
Page 4, Section 6.B
Technical Report

ATTACHMENT No. 12

ATTACHMENT No. 13

Pollutant Analysis of Treated Effluent

Page 9, Section 7

Technical Report

ANALYTICAL ENVIRONMENTAL LABORATORY LLC
NELAP Accredited

Analytical Report

1071814
For
City of Palestine - Wastewater Plant
Ben Day
504 N. Queen St.,
Palestine, TX 75801
Friday, December 06, 2024
RP241215075

Approved by _____
Luke Crozier, Assistant Manager

8310 S. Broadway | Tyler, TX 75703 | www.aeltyler.com
P: 903-509-8700 | F:903-509-8811

Job Number : **1071814** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**11/06/2024**	Laboratory ID :	**1071814-01**
Time Sampled	**8:00AM**	Date Received :	**11/06/2024**
Project Name :		Time Received :	**12:26PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Effluent**	Sample Type :	**Composite**
Composite Times:	**11/05/24 12:00 11/06/24 08:00**		

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
Alkalinity	26	mg/L $CaCO_3$	20		SM 2320B-1997 2021ed	24112707	11/25/24 16:02	KRB	N
Chloride	68	mg/L	2.5		EPA 600 300.0mod	24111419	11/14/24 0:41	KRC	N
Sulfate	82.1	mg/L	2.5		EPA 600 300.0mod	24111419	11/14/24 0:41	KRC	N
Nitrate as N	6.29	mg/L	0.5		EPA 600 300.0mod	24111302	11/6/24 19:56	KRC	N
Metals-Total									
Phosphorus	2.19	mg/L	0.025		EPA 200.7	24111315	11/13/24 19:20	BLC	N
Total Dissolved Solids	298	mg/L	25		SM 2540C-2015 2020ed	24111203	11/12/24 12:46	BAE	N
Total Kjeldahl Nitrogen	<0.4	mg N/L	0.4		EPA 351.2mod	24120503	11/27/24 19:46	JAB	N

Job Number : **1071814** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**11/06/2024**	Laboratory ID :	**1071814-02**
Time Sampled	**10:12AM**	Date Received :	**11/06/2024**
Project Name :		Time Received :	**12:26PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Effluent**	Sample Type :	**Grab**

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
Oil and Grease	<5	mg/L	5		EPA 1664B SPE(HEM)mod	24112001	11/20/24 11:45	KRB	N

Analytical Environmental Laboratory LLC
8310 South Broadway
Tyler, TX 75703
903-509-8700

Job Number : **1071538** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**10/16/2024**	Laboratory ID :	**1071538-02**
Time Sampled	**8:00AM**	Date Received :	**10/16/2024**
Project Name :	**Weekly Effluent**	Time Received :	**12:00PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Effluent**	Sample Type :	**Composite**
Composite Times:	**10/15/24 12:00 10/16/24 08:00**		

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
Ammonia as N	0.0663	mg/L NH_3-N	0.0303		SM 4500NH3 D-2011mod	24102104	10/21/24 9:21	TCA	N
Carbonaceous Biochemical Oxygen Demand	2.88	mg/L	2		SM 5210B-2016mod	24102413	10/16/24 14:49	JAB	N
Total Suspended Solids	3	mg/L	2.5		SM 2540D-2015 2020ed	24101705	10/21/24 10:15	BAE	N

Job Number : **1071538** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**10/16/2024**	Laboratory ID :	**1071538-05**
Time Sampled	**8:00AM**	Date Received :	**10/16/2024**
Project Name :	**Weekly Effluent**	Time Received :	**12:00PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Effluent**	Sample Type :	**Grab**

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
E. coli	<1	MPN/ 100mL	1		SM 9223B-2016	24101702	10/16/24 15:29	AAC	N
Total Coliform	201.4	MPN/ 100mL	1		SM 9223B-2016	24101702	10/16/24 15:29	AAC	

February-24	CHLORINES						pH								DISOLVED OXYGEN										30 MIN SETTLEABILITY TEST						
																CALIBRATION RESULTS				EFFLUENT RESULTS											
	TIME	DeCL2 mg/l		Contact Cl2 mg/l	Flow/MGD	Initials	TIME	CALIBRATION RESULTS			Slope%	Temp/C°	EFFLUENT pH	Initials	TIME	mg/l	DO %	Temp/C°	TIME	mg/l	DO %	Temp/C°	Initials	TIME	5 MIN	10 MIN	15 MIN	20 MIN	25 MIN	30 MIN
Day	FORMAT	0.04-0.03=	0.01	2.99-0.01=	2.98	2.2	TBD	1400	4.01=4.01	7.00=7.00	10.01=10.01	94.1	25	6.481	TBD	1400	8.93	100	20.6	1450	9.81	99.1	15.8	TBD	1400	1000	990	980	970	960	950
1	645	0.03-0.02	0.01	4.6-0.3	4.30	2.11	ERH																								
2	621	0.02-0.02	0.00	4.3-0.2	1.40	2.28	SL																								
3	815	0.02-0.02	0.00	4.2-0.1	4.10	4.1	ERH																								
4	835	0.02-0.04	0	2.5-0.00	2.5	2.48	ERH																								
5	635	0.04-0.01	0.03	2.5-0.00	2.50	2.73	ERH																								
6	640	0.02-0.00	0.02	2.5-0.1	2.40	1.78	ERH	655	4.01=4.01	7.00=7.00	10.01=10.01	95.6	25	6.954	ERH	640	8.99	100	20.1	645	9.31	96.5	16.6	ERH	705	960	930	900	850	810	780
7	640	0.02-0.00	0.02	1.83-0.00	1.83	2.22	ERH									650	8.91	100	20.4	655	9.5	99.6	17.1	ERH	710	980	950	900	860	830	790
8	625	0.00-0.01	0.00	2.18-0.01	2.17	1.77	ERH																								
9	614	0.03-0.04	0.00	2.15-0.04	2.11	1.71	SL																								
10	936	0.01-0.02	0.00	1.97-0.02	1.95	1.99	SL																								
11	744	0.08-0.02	0.06	2.4-0.1	2.30	7.1	SL																								
12	635	0.03-0.04	0.00	3.2-0.1	3.10	4.43	ERH																								
13	617	0.06-0.05	0.01	2.9-0.1	2.80	3.05	ERH	630	4.01=4.01	7.00=7.00	10.01=10.01	96.3	25	6.885	ERH	625	9	100	20.1	628	9.2	94.6	16.3	ERH	640	920	850	760	700	640	580
14	640	0.02-0.00	0.02	2.00-0.00	2.00	2.6	ERH									645	9	100	20.1	648	9.21	96.1	17	ERH	700	940	860	750	690	620	560
15	645	0.03-0.00	0.03	1.40-0.00	1.40	2.07	ERH																								
16	631	0.02-0.03	0.00	1.32-0.03	1.29	2.14	SL																								
17	900	0.03-0.03	0.00	1.94-0.03	1.91	2.38	ERH																								
18	900	0.02-0.00	0.02	1.64-0.00	1.64	2.64	ERH																								
19	620	0.01-0.01	0.00	1.57-0.01	1.56	1.56	ERH																								
20	630	0.02-0.00	0.02	1.42-0.00	1.42	2.01	ERH	645	4.01=4.01	7.00=7.00	10.01=10.01	96.3	25	7.341	ERH	640	8.86	100	20.9	648	8.96	99.4	17	ERH	730	960	920	870	830	790	740
21	640	0.02-0.00	0.02	1.87-0.00	1.87	1.92	ERH									644	8.66	100	21.9	645	8.68	96.3	18.4	ERH	713	960	920	870	860	800	750
22	635	0.02-0.00	0.02	1.87-0.00	1.87	1.73	ERH																								
23	706	0.03-0.04	0.00	1.65-0.04	1.61	1.95	SL																								
24	848	0.04-0.02	0.02	1.73-0.02	1.71	1.45	ERH																								
25	1021	0.01-0.02	0.00	1.46-0.02	1.44	2.41	SL																								
26	645	0.08-0.01	0.07	5.4-0.3	5.10	1.7	ERH																								
27	650	0.04-0.03	0.01	1.41-0.03	1.38	0.83	ERH	618	4.01=4.01	7.00=7.00	10.01=10.01	96.6	25	7.154	ERH	624	8.51	100	22.2	630	8.04	92.2	21	ERH	642	990	960	930	900	870	840
28	640	0.01-0.00	0.01	1.60-0.00	1.6	1.3	ERH									621	8.59	100	22.2	625	8.38	94.1	20.4	ERH	643	970	940	920	890	850	820
29	640	0.01-0.00	0.01	2.5-0.1	2.4	1.18	ERH																								

Job Number : **1068545** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**02/13/2024**	Laboratory ID :	**1068545-01**
Time Sampled	**8:00AM**	Date Received :	**02/14/2024**
Project Name :	**Weekly Effluent**	Time Received :	**12:35PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Effluent**	Sample Type :	**Composite**
Composite Times:	**02/12/24 12:00 02/13/24 08:00**		

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
Ammonia as N	0.0618	mg/L NH_3-N	0.0303		SM 4500NH3 D-2011mod	24022002	2/19/24 13:08	TCA	N
Carbonaceous Biochemical Oxygen Demand	3.68	mg/L	2		SM 5210B-2016mod	24021915	2/14/24 13:30	JAB	N
Total Suspended Solids	<2.5	mg/L	2.5	J	SM 2540D-2015	24021503	2/15/24 13:04	KRB	N

Job Number : **1068545** Customer : **City of Palestine - Wastewater Plant** Attn : **Ben Day**

Date Sampled :	**02/13/2024**	Laboratory ID :	**1068545-03**
Time Sampled	**8:00AM**	Date Received :	**02/14/2024**
Project Name :	**Weekly Effluent**	Time Received :	**12:35PM**
Project Number :		Matrix :	**Liquid**
Sample Description :	**TC Oxidation Ditch**	Sample Type :	**Grab**

Parameter	Result	Unit	MQL	Qualifier	Test Method	QA	Date	Tech	Ac.
Mixed Liquor Suspended Solids	4020	mg/L	625		SM 2540D-2015	24021506	2/15/24 13:52	KRB	N

ATTACHMENT No. 14

Pollutant Analysis

Page 44, Worksheet 4.0

Technical Report

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue. Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

PAL5-A

Project
1084875

City of Palestine
Sebastian Landaverde
504 North Queen St.
Palestine, TX 75801-

Printed: 01/10/2024

RESULTS

Sample Results

2257705 **Effluent Qrterly Table III - C** COMP: 12/18 0750 - 12/19 0650 *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 06:50 12/19/23 *Taken:* 12/19/2023 06:50:00
Composite poured into Sample Bottles: Date/Time/Tech 12/19/23 0805 GAC
Autosampler # 7240 Bottle # 001501

Calculation *Prepared:* *01/05/2024* *15:01:53* *Calculated* *01/05/2024* *15:01:53* *CAL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Trivalent Chromium**	**<0.003**	**mg/L**	0.003		**16065-83-1**	

EPA 200.8 5.4 *Prepared:* *1096610* *12/22/2023* *09:00:00* *Analyzed* *1097272* *12/29/2023* *21:56:00* *HLT*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Beryllium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-41-7**	08
NELAC	**Cadmium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-43-9**	08
NELAC	**Copper, Total**	**<0.001**	**mg/L**	0.001		**7440-50-8**	08
NELAC	**Lead, Total**	**<0.0005**	**mg/L**	0.0005		**7439-92-1**	08
NELAC	**Nickel, Total**	**0.00237**	**mg/L**	0.001		**7440-02-0**	08
NELAC	**Silver, Total**	**<0.0002**	**mg/L**	0.0002		**7440-22-4**	08
NELAC	**Thallium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-28-0**	08
NELAC	**Zinc, Total**	**0.0457**	**mg/L**	0.005		**7440-66-6**	08

EPA 200.8 5.4 *Prepared:* *1096610* *12/22/2023* *09:00:00* *Analyzed* *1098030* *01/04/2024* *23:59:00* *JC2*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Arsenic, Total**	**0.000864**	**mg/L**	0.0005		**7440-38-2**	08
NELAC	**Chromium, Total**	**<0.001**	**mg/L**	0.001		**7440-47-3**	08
NELAC	**Selenium, Total**	**<0.002**	**mg/L**	0.002		**7782-49-2**	08

EPA 200.8 5.4 *Prepared:* *1096610* *12/22/2023* *09:00:00* *Analyzed* *1098650* *01/10/2024* *03:06:00* *JC2*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Antimony, Total**	**<0.003**	**mg/L**	0.003		**7440-36-0**	08

EPA 245.1 3 *Prepared:* *1096053* *12/20/2023* *07:00:00* *Analyzed* *1096176* *12/20/2023* *10:51:00* *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total**	**<0.200**	**ug/L**	0.200		**7439-97-6**	04

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2257705 **Effluent Qrterly Table III - C** COMP: 12/18 0750 - 12/19 0650 *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 06:50 12/19/23 *Taken:* 12/19/2023 06:50:00
Composite poured into Sample Bottles: Date/Time/Tech 12/19/23 0805 GAC
Autosampler # 7240 Bottle # 001501

EPA 420.4 1 *Prepared:* 1096146 12/20/2023 12:23:10 *Analyzed* 1096625 12/22/2023 05:50:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Phenolics, Total Recoverable**	**0.010**	**mg/L**	0.005			07

SM 3500-Cr B-2011 *Prepared:* 1096313 12/19/2023 16:00:00 *Analyzed* 1096313 12/19/2023 16:00:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<3.00**	**ug/L**	3.00	PD	**18540-29-9**	01

2257706 **Effluent Qrterly Table III - G** *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Taken: 12/19/2023 08:45:00

Prepared: 1096007 12/19/2023 08:51:00 *Analyzed* 1096007 12/19/2023 08:51:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Cl2 Check for CNa**	**NEG**					

Prepared: 1096008 12/19/2023 08:53:00 *Analyzed* 1096008 12/19/2023 08:53:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Sulfide Check for CNa**	**NEG**	**mg/L**				

EPA 1664B (HEM) *Prepared:* 1097165 12/29/2023 07:30:00 *Analyzed* 1097165 12/29/2023 07:30:00 RC1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Oil and Grease (HEM)**	**<4.60**	**mg/L**	4.60			01

SM 4500-CN⁻ E-2016 *Prepared:* 1096343 12/21/2023 09:39:12 *Analyzed* 1096676 12/22/2023 11:28:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**0.006**	**mg/L**	0.005			04

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2257706 Effluent Qrterly Table III - G Received: 12/19/2023

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 12/19/2023 08:45:00

SM 4500-CN⁻ G-2016	*Prepared:*		*12/22/2023*	*17:02:50*	*Calculated*		*12/22/2023*	*17:02:50*	*CAL*
	Parameter	*Results*	*Units*	*RL*		*Flags*	*CAS*		*Bottle*
NELAC	**Cyanide - Available/Amenable**	**0.001**	**mg/L**	0.005		J			
SM 4500-CN⁻ G-2016	*Prepared:*	*1096371*	*12/21/2023*	*10:49:26*	*Analyzed*	*1096670*	*12/22/2023*	*11:28:00*	*AMB*
	Parameter	*Results*	*Units*	*RL*		*Flags*	*CAS*		*Bottle*
NELAC	**Cyanide After Chlorination**	**<0.005**	**mg/L**	0.005					05

Sample Preparation

2257705 Effluent Qrterly Table III - C COMP: 12/18 0750 - 12/19 0650 Received: 12/19/2023

Composite Stop 06:50 12/19/23 12/19/2023

	Prepared:		*12/20/2023*	*13:03:03*	*Calculated*		*12/20/2023*	*13:03:03*	*CAL*
z	**Composite Sampler Rental**	**Verified**							
z	**Environmental Fee (per Project)**	**Verified**							
EPA 200.2 2.8	*Prepared:*	*1096610*	*12/22/2023*	*09:00:00*	*Analyzed*	*1096610*	*12/22/2023*	*09:00:00*	*HLT*
z	**Liquid Metals Digestion**	**50/50**	**ml**						02
EPA 245.1 3	*Prepared:*	*1096053*	*12/20/2023*	*07:00:00*	*Analyzed*	*1096053*	*12/20/2023*	*07:00:00*	*ALB*
NELAC	**Mercury Liquid Metals Digestion**	**50/25**	**ml**						02
EPA 420.4 1	*Prepared:*	*1096146*	*12/20/2023*	*12:23:10*	*Analyzed*	*1096146*	*12/20/2023*	*12:23:10*	*SRJ*
NELAC	**Phenol Distillation**	**6/6**	**ml**						03

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2257706 **Effluent Qrterly Table III - G** *Received:* 12/19/2023

12/19/2023

SM 4500-CN¯ C-2016		*Prepared:*	*1096343*	*12/21/2023*	*09:39:12*	*Analyzed*	*1096343*	*12/21/2023*	*09:39:12*	*SRJ*
NELAC	**Cyanide Distillation**	**10/5**		**ml**						03
SM 4500-CN¯ C-2016		*Prepared:*	*1096371*	*12/21/2023*	*10:49:26*	*Analyzed*	*1096371*	*12/21/2023*	*10:49:26*	*SRJ*
NELAC	**CN Dist After Chlorination**	**10/5**		**ml**						03

Qualifiers:

J - Analyte detected below quantitation limit 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.

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RESULTS

Sample Results

2257705 **Effluent Qrterly Table III - C** COMP: 12/18 0750 - 12/19 0650 *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 06:50 12/19/23 *Taken:* 12/19/2023 06:50:00
Composite poured into Sample Bottles: Date/Time/Tech 12/19/23 0805 GAC
Autosampler # 7240 Bottle # 001501

Calculation *Prepared:* *01/05/2024 15:01:53* *Calculated* *01/05/2024 15:01:53* *CAL*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Trivalent Chromium**	**<0.003**	**mg/L**	0.003		**16065-83-1**	

EPA 200.8 5.4 *Prepared:* *1096610 12/22/2023 09:00:00* *Analyzed* *1097272 12/29/2023 21:56:00* *HLT*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Beryllium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-41-7**	08
NELAC	**Cadmium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-43-9**	08
NELAC	**Copper, Total**	**<0.001**	**mg/L**	0.001		**7440-50-8**	08
NELAC	**Lead, Total**	**<0.0005**	**mg/L**	0.0005		**7439-92-1**	08
NELAC	**Nickel, Total**	**0.00237**	**mg/L**	0.001		**7440-02-0**	08
NELAC	**Silver, Total**	**<0.0002**	**mg/L**	0.0002		**7440-22-4**	08
NELAC	**Thallium, Total**	**<0.0005**	**mg/L**	0.0005		**7440-28-0**	08
NELAC	**Zinc, Total**	**0.0457**	**mg/L**	0.005		**7440-66-6**	08

EPA 200.8 5.4 *Prepared:* *1096610 12/22/2023 09:00:00* *Analyzed* *1098030 01/04/2024 23:59:00* *JC2*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Arsenic, Total**	**0.000864**	**mg/L**	0.0005		**7440-38-2**	08
NELAC	**Chromium, Total**	**<0.001**	**mg/L**	0.001		**7440-47-3**	08
NELAC	**Selenium, Total**	**<0.002**	**mg/L**	0.002		**7782-49-2**	08

EPA 200.8 5.4 *Prepared:* *1096610 12/22/2023 09:00:00* *Analyzed* *1098650 01/10/2024 03:06:00* *JC2*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Antimony, Total**	**<0.003**	**mg/L**	0.003		**7440-36-0**	08

EPA 245.1 3 *Prepared:* *1096053 12/20/2023 07:00:00* *Analyzed* *1096176 12/20/2023 10:51:00* *CAS*

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Mercury, Total**	**<0.200**	**ug/L**	0.200		**7439-97-6**	04

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2257705 **Effluent Qrterly Table III - C** COMP: 12/18 0750 - 12/19 0650 *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Composite Stop 06:50 12/19/23 *Taken:* 12/19/2023 06:50:00
Composite poured into Sample Bottles: Date/Time/Tech 12/19/23 0805 GAC
Autosampler # 7240 Bottle # 001501

EPA 420.4 1 *Prepared:* 1096146 12/20/2023 12:23:10 *Analyzed* 1096625 12/22/2023 05:50:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Phenolics, Total Recoverable**	**0.010**	**mg/L**	0.005			07

SM 3500-Cr B-2011 *Prepared:* 1096313 12/19/2023 16:00:00 *Analyzed* 1096313 12/19/2023 16:00:00 ALB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Hexavalent Chromium**	**<3.00**	**ug/L**	3.00	PD	**18540-29-9**	01

2257706 **Effluent Qrterly Table III - G** *Received:* 12/19/2023

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Taken: 12/19/2023 08:45:00

Prepared: 1096007 12/19/2023 08:51:00 *Analyzed* 1096007 12/19/2023 08:51:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Cl2 Check for CNs**	**NEG**					

Prepared: 1096008 12/19/2023 08:53:00 *Analyzed* 1096008 12/19/2023 08:53:00 GAC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Field Sulfide Check for CNs**	**NEG**	**mg/L**				

EPA 1664B (HEM) *Prepared:* 1097165 12/29/2023 07:30:00 *Analyzed* 1097165 12/29/2023 07:30:00 RC1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Oil and Grease (HEM)**	**<4.60**	**mg/L**	4.60			01

SM 4500-CN⁻ E-2016 *Prepared:* 1096343 12/21/2023 09:39:12 *Analyzed* 1096676 12/22/2023 11:28:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cyanide, total**	**0.006**	**mg/L**	0.005			04

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2257706 Effluent Qrterly Table III - G Received: 12/19/2023

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 12/19/2023 08:45:00

SM 4500-CN⁻ G-2016	*Prepared:*		*12/22/2023*	*17:02:50*	*Calculated*		*12/22/2023*	*17:02:50*	*CAL*
	Parameter	*Results*	*Units*	*RL*		*Flags*	*CAS*		*Bottle*
NELAC	**Cyanide - Available/Amenable**	**0.001**	**mg/L**	0.005		J			
SM 4500-CN⁻ G-2016	*Prepared:*	*1096371*	*12/21/2023*	*10:49:26*	*Analyzed*	*1096670*	*12/22/2023*	*11:28:00*	*AMB*
	Parameter	*Results*	*Units*	*RL*		*Flags*	*CAS*		*Bottle*
NELAC	**Cyanide After Chlorination**	**<0.005**	**mg/L**	0.005					05

Sample Preparation

2257705 Effluent Qrterly Table III - C COMP: 12/18 0750 - 12/19 0650 Received: 12/19/2023

Composite Stop 06:50 12/19/23 12/19/2023

	Prepared:		*12/20/2023*	*13:03:03*	*Calculated*		*12/20/2023*	*13:03:03*	*CAL*
z	**Composite Sampler Rental**	**Verified**							
z	**Environmental Fee (per Project)**	**Verified**							
EPA 200.2 2.8	*Prepared:*	*1096610*	*12/22/2023*	*09:00:00*	*Analyzed*	*1096610*	*12/22/2023*	*09:00:00*	*HLT*
z	**Liquid Metals Digestion**	**50/50**	**ml**						02
EPA 245.1 3	*Prepared:*	*1096053*	*12/20/2023*	*07:00:00*	*Analyzed*	*1096053*	*12/20/2023*	*07:00:00*	*ALB*
NELAC	**Mercury Liquid Metals Digestion**	**50/25**	**ml**						02
EPA 420.4 1	*Prepared:*	*1096146*	*12/20/2023*	*12:23:10*	*Analyzed*	*1096146*	*12/20/2023*	*12:23:10*	*SRJ*
NELAC	**Phenol Distillation**	**6/6**	**ml**						03

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2257706 **Effluent Qrterly Table III - G** *Received:* 12/19/2023

12/19/2023

	SM 4500-CN⁻ C-2016	*Prepared:*	*1096343*	*12/21/2023*	*09:39:12*	*Analyzed*	*1096343*	*12/21/2023*	*09:39:12*	*SRJ*
NELAC	**Cyanide Distillation**	**10/5**		**ml**						03
	SM 4500-CN⁻ C-2016	*Prepared:*	*1096371*	*12/21/2023*	*10:49:26*	*Analyzed*	*1096371*	*12/21/2023*	*10:49:26*	*SRJ*
NELAC	**CN Dist After Chlorination**	**10/5**		**ml**						03

Qualifiers:

J - Analyte detected below quantitation limit 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

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

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RESULTS

Sample Results

2353844 Effluent Add'l Testing Received: 11/12/2024

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 11/12/2024 09:40:00

1613 Prepared: 11/27/2024 17:45:00 Analyzed 11/27/2024 17:45:00 SUB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Dioxins and Furans Subcontract**	**See Attached**				**ION1**	

ASTM D7065-11 Prepared: 1148351 11/18/2024 07:00:00 Analyzed 1148812 11/19/2024 18:52:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Nonylphenol**	**<35.3**	**ug/L**	35.3		**25154-52-3**	29

EPA 200.8 5.4 Prepared: 1147566 11/13/2024 10:00:00 Analyzed 1147740 11/13/2024 19:49:00 ESG

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Aluminum, Total**	**0.0141**	**mg/L**	0.00171		**7429-90-5**	22
NELAC	**Barium, Total**	**0.0191**	**mg/L**	0.001		**7440-39-3**	22

EPA 300.0 2.1 Prepared: 1147841 11/13/2024 12:54:00 Analyzed 1147841 11/13/2024 12:54:00 NAZ

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Fluoride**	**<0.5**	**mg/L**	0.5			01
NELAC	**Nitrate-Nitrogen Total**	**4.51**	**mg/L**	0.226		**14797-55-8**	01

EPA 604.1 Prepared: 1147949 11/14/2024 15:30:00 Analyzed 1148599 11/18/2024 21:20:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Hexachlorophene**	**<2.59**	**ug/L**	2.59		**70-30-4**	28

EPA 608.3 Prepared: 1147605 11/13/2024 14:30:00 Analyzed 1148509 11/16/2024 01:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**4,4-DDD**	**<0.0103**	**ug/L**	0.0103		**72-54-8**	24
NELAC	**4,4-DDE**	**<0.0103**	**ug/L**	0.0103		**72-55-9**	24

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City of Palestine
Sebastian Landaverde
504 North Queen St.
Palestine, TX 75801-

Project
1125027

Printed: 12/03/2024

2353844 Effluent Add'l Testing Received: 11/12/2024

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 11/12/2024 09:40:00

EPA 608.3 Prepared: 1147605 11/13/2024 14:30:00 Analyzed 1148509 11/16/2024 01:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	4,4-DDT	<0.0103	ug/L	0.0103	S	50-29-3	24
NELAC	Aldrin	<0.0103	ug/L	0.0103		309-00-2	24
NELAC	Alpha-BHC(hexachlorocyclohexane)	<0.0103	ug/L	0.0103		319-84-6	24
NELAC	Beta-BHC(hexachlorocyclohexane)	<0.0103	ug/L	0.0103		319-85-7	24
NELAC	Chlordane	<0.200	ug/L	0.200		57-74-9	24
NELAC	Delta-BHC(hexachlorocyclohexane)	<0.0103	ug/L	0.0103		319-86-8	24
NELAC	Dieldrin	<0.0103	ug/L	0.0103		60-57-1	24
NELAC	Endosulfan I (alpha)	<0.010	ug/L	0.010		959-98-8	24
NELAC	Endosulfan II (beta)	<0.0103	ug/L	0.0103		33213-65-9	24
NELAC	Endosulfan sulfate	<0.0103	ug/L	0.0103		1031-07-8	24
NELAC	Endrin	<0.0103	ug/L	0.0103		72-20-8	24
NELAC	Endrin aldehyde	<0.0103	ug/L	0.0103		7421-93-4	24
NELAC	Gamma-BHC(Lindane)	<0.0103	ug/L	0.0103		58-89-9	24
NELAC	Heptachlor	<0.010	ug/L	0.010		76-44-8	24
NELAC	Heptachlor epoxide	<0.0103	ug/L	0.0103		1024-57-3	24
NELAC	Toxaphene	<0.206	ug/L	0.206		8001-35-2	24

EPA 608.3 Prepared: 1147607 11/13/2024 14:30:00 Analyzed 1149470 11/16/2024 01:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	PCB-1016	<0.200	ug/L	0.200		12674-11-2	26
NELAC	PCB-1221	<0.200	ug/L	0.200		11104-28-2	26
NELAC	PCB-1232	<0.200	ug/L	0.200		11141-16-5	26
NELAC	PCB-1242	<0.200	ug/L	0.200		53469-21-9	26
NELAC	PCB-1248	<0.200	ug/L	0.200		12672-29-6	26
NELAC	PCB-1254	<0.200	ug/L	0.200		11097-69-1	26
NELAC	PCB-1260	<0.200	ug/L	0.200		11096-82-5	26
NELAC	PCB-1262	<0.206	ug/L	0.206		37324-23-5	26
NELAC	PCB-1268	<0.206	ug/L	0.206		11100-14-4	26

EPA 614 Prepared: 1147606 11/13/2024 14:30:00 Analyzed 1149738 11/19/2024 15:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Azinphos-methyl (Guthion)	<0.0515	ug/L	0.0515		86-50-0	25
NELAC	Demeton	<0.0515	ug/L	0.0515		8065-48-3	25
NELAC	Diazinon	<0.0515	ug/L	0.0515		333-41-5	25

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Project 1125027

City of Palestine
Sebastian Landaverde
504 North Queen St.
Palestine, TX 75801-

Printed: 12/03/2024

2353844 Effluent Add'l Testing Received: 11/12/2024

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 11/12/2024 09:40:00

EPA 614 Prepared: 1147606 11/13/2024 14:30:00 Analyzed 1149738 11/19/2024 15:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Malathion**	**<0.0515**	**ug/L**	0.0515		**121-75-5**	25
NELAC	**Parathion, ethyl**	**<0.0515**	**ug/L**	0.0515		**56-38-2**	25
NELAC	**Parathion, methyl**	**<0.050**	**ug/L**	0.050		**298-00-0**	25

EPA 615 Prepared: 1148446 11/18/2024 14:00:00 Analyzed 1148982 11/20/2024 19:30:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**2,4 Dichlorophenoxyacetic acid**	**<0.507**	**ug/L**	0.507		**94-75-7**	30
NELAC	**2,4,5-TP (Silvex)**	**<0.300**	**ug/L**	0.300		**93-72-1**	30

EPA 617 Prepared: 1147605 11/13/2024 14:30:00 Analyzed 1148499 11/16/2024 01:56:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
Z	**Kelthane (Dicofol)**	**<0.0515**	**ug/L**	0.0515		**115-32-2**	24
Z	**Methoxychlor**	**<0.0103**	**ug/L**	0.0103		**72-43-5**	24
Z	**Mirex**	**<0.0103**	**ug/L**	0.0103		**2385-85-5**	24

EPA 622 Prepared: 1147606 11/13/2024 14:30:00 Analyzed 1149733 11/19/2024 15:46:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Chlorpyrifos**	**<0.050**	**ug/L**	0.050		**2921-88-2**	25

EPA 624.1 Prepared: 1147538 11/12/2024 15:19:00 Analyzed 1147538 11/12/2024 15:19:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Acrolein**	**<4.00**	**ug/L**	4.00	X	**107-02-8**	20
NELAC	**Acrylonitrile**	**<1.00**	**ug/L**	1.00		**107-13-1**	20

EPA 624.1 Prepared: 1147539 11/12/2024 15:41:00 Analyzed 1147539 11/12/2024 15:41:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**1,1,1-Trichloroethane**	**<1.00**	**ug/L**	1.00		**71-55-6**	17
NELAC	**1,1,2,2-Tetrachloroethane**	**<1.00**	**ug/L**	1.00		**79-34-5**	17
NELAC	**1,1,2-Trichloroethane**	**<1.00**	**ug/L**	1.00		**79-00-5**	17
NELAC	**1,1-Dichloroethane**	**<1.00**	**ug/L**	1.00		**75-34-3**	17
NELAC	**1,1-Dichloroethylene**	**<1.00**	**ug/L**	1.00		**75-35-4**	17

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Project 1125027

Printed: 12/03/2024

2353844 Effluent Add'l Testing Received: 11/12/2024

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 11/12/2024 09:40:00

EPA 624.1 Prepared: 1147539 11/12/2024 15:41:00 Analyzed 1147539 11/12/2024 15:41:00 MR1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2-Dibromoethane (EDB)	<1.00	ug/L	1.00		106-93-4	17
NELAC	1,2-Dichloroethane	<1.00	ug/L	1.00		107-06-2	17
NELAC	1,2-Dichloropropane	<1.00	ug/L	1.00		78-87-5	17
NELAC	2-Chloroethylvinyl ether	<1.00	ug/L	1.00		110-75-8	17
NELAC	Benzene	<1.00	ug/L	1.00		71-43-2	17
NELAC	Bromodichloromethane	8.72	ug/L	1.00		75-27-4	17
NELAC	Bromoform	<1.00	ug/L	1.00		75-25-2	17
NELAC	Bromomethane (Methyl Bromi	<1.00	ug/L	1.00		74-83-9	17
NELAC	Carbon Tetrachloride	<1.00	ug/L	1.00		56-23-5	17
NELAC	Chlorobenzene	<1.00	ug/L	1.00		108-90-7	17
NELAC	Chloroethane	<1.12	ug/L	1.12		75-00-3	17
NELAC	Chloroform	33.8	ug/L	1.00		67-66-3	17
NELAC	Chloromethane (Methyl Chloride)	<1.00	ug/L	1.00		74-87-3	17
NELAC	cis-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-01-5	17
NELAC	Dibromochloromethane	1.83	ug/L	1.00		124-48-1	17
NELAC	Dichloromethane	<1.02	ug/L	1.02		75-09-2	17
NELAC	Ethylbenzene	<1.00	ug/L	1.00		100-41-4	17
NELAC	m-Dichlorobenzene (1,3-DCB)	<1.00	ug/L	1.00		541-73-1	17
NELAC	Methyl ethyl ketone (Butanone)	<1.00	ug/L	1.00		78-93-3	17
NELAC	o-Dichlorobenzene (1,2-DCB)	<1.00	ug/L	1.00		95-50-1	17
NELAC	p-Dichlorobenzene (1,4-DCB)	<1.00	ug/L	1.00		106-46-7	17
NELAC	Tetrachloroethylene	<1.00	ug/L	1.00		127-18-4	17
NELAC	Toluene	<1.00	ug/L	1.00		108-88-3	17
NELAC	trans-1,2-Dichloroethylene	<1.00	ug/L	1.00		156-60-5	17
NELAC	trans-1,3-Dichloropropene	<1.00	ug/L	1.00		10061-02-6	17
NELAC	Trichloroethylene	<1.00	ug/L	1.00		79-01-6	17
NELAC	Vinyl chloride	<1.00	ug/L	1.00		75-01-4	17

EPA 624.1 Prepared: 1147539 11/13/2024 16:13:27 Calculated 1147539 11/13/2024 16:13:27 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Trihalomethanes	0.04435	mg/L	0.001			17

EPA 625.1 Prepared: 1147746 11/13/2024 15:30:00 Analyzed 1148524 11/15/2024 19:45:00 PM1

Parameter	Results	Units	RL	Flags	CAS	Bottle

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City of Palestine
Sebastian Landaverde
504 North Queen St.
Palestine, TX 75801-

Printed: 12/03/2024

2353844 Effluent Add'l Testing *Received:* 11/12/2024

Non-Potable Water *Collected by:* GAC SPL Kilgore *PO:*
Taken: 11/12/2024 09:40:00

EPA 625.1 *Prepared:* 1147746 11/13/2024 15:30:00 *Analyzed* 1148524 11/15/2024 19:45:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	1,2,4,5-Tetrachlorobenzene	<0.994	ug/L	0.994		95-94-3	27
NELAC	1,2,4-Trichlorobenzene	<0.994	ug/L	0.994		120-82-1	27
NELAC	1,2-Dichlorobenzene	<0.994	ug/L	0.994		95-50-1	27
NELAC	1,2-DPH (as azobenzene)	<0.994	ug/L	0.994		122-66-7	27
NELAC	1,3-Dichlorobenzene	<0.994	ug/L	0.994		541-73-1	27
NELAC	1,4-Dichlorobenzene	<0.994	ug/L	0.994		106-46-7	27
NELAC	2,4,5-Trichlorophenol	<0.994	ug/L	0.994		95-95-4	27
NELAC	2,4,6-Trichlorophenol	<0.994	ug/L	0.994		88-06-2	27
AC	2,4-Dichlorophenol	<0.994	ug/L	0.994		120-83-2	27
LAC	2,4-Dimethylphenol	<2.39	ug/L	2.39	S	105-67-9	27
NELAC	2,4-Dinitrophenol	<8.95	ug/L	8.95		51-28-5	27
NELAC	2,4-Dinitrotoluene	<3.48	ug/L	3.48		121-14-2	27
NELAC	2,6-Dinitrotoluene	<0.994	ug/L	0.994		606-20-2	27
NELAC	2-Chloronaphthalene	<0.994	ug/L	0.994		91-58-7	27
NELAC	2-Chlorophenol	<0.994	ug/L	0.994		95-57-8	27
NELAC	2-Methylphenol (o-Cresol)	<5.17	ug/L	5.17		95-48-7	27
NELAC	2-Nitrophenol	<0.994	ug/L	0.994		88-75-5	27
NELAC	3&4-Methylphenol (m&p-Cresol)	<6.16	ug/L	6.16		MEPH34	27
NELAC	3,3'-Dichlorobenzidine	<4.97	ug/L	4.97		91-94-1	27
NELAC	4,6-Dinitro-2-methylphenol	<7.95	ug/L	7.95		534-52-1	27
NELAC	4-Bromophenyl phenyl ether	<0.994	ug/L	0.994		101-55-3	27
NELAC	4-Chlorophenyl phenyl ethe	<0.994	ug/L	0.994		7005-72-3	27
NELAC	4-Nitrophenol	<0.994	ug/L	0.994		100-02-7	27
NELAC	Acenaphthene	<0.994	ug/L	0.994		83-32-9	27
NELAC	Acenaphthylene	<0.994	ug/L	0.994		208-96-8	27
z	Aniline	<0.994	ug/L	0.994	S	62-53-3	27
NELAC	Anthracene	<0.994	ug/L	0.994		120-12-7	27
NELAC	Benzidine	<19.9	ug/L	19.9		92-87-5	27
NELAC	Benzo(a)anthracene	<0.994	ug/L	0.994		56-55-3	27
NELAC	Benzo(a)pyrene	<0.994	ug/L	0.994		50-32-8	27
NELAC	Benzo(b)fluoranthene	<0.994	ug/L	0.994		205-99-2	27
NELAC	Benzo(ghi)perylene	<0.994	ug/L	0.994		191-24-2	27
NELAC	Benzo(k)fluoranthene	<0.994	ug/L	0.994		207-08-9	27
NELAC	Benzyl Butyl phthalate	<7.46	ug/L	7.46		85-68-7	27
NELAC	Bis(2-chloroethoxy)methane	<0.994	ug/L	0.994		111-91-1	27
NELAC	Bis(2-chloroethyl)ether	<0.994	ug/L	0.994		111-44-4	27

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504 North Queen St.
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Printed: 12/03/2024

2353844 Effluent Add'l Testing

Received: 11/12/2024

Non-Potable Water | Collected by: GAC | SPL Kilgore | PO:
Taken: 11/12/2024 09:40:00

EPA 625.1 Prepared: 1147746 11/13/2024 15:30:00 Analyzed 1148524 11/15/2024 19:45:00 PM1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Bis(2-chloroisopropyl)ether**	**<0.994**	**ug/L**	0.994		**108-60-1**	27
NELAC	**Bis(2-ethylhexyl)phthalate**	**<7.46**	**ug/L**	7.46		**117-81-7**	27
NELAC	**Chrysene (Benzo(a)phenanthrene)**	**<0.994**	**ug/L**	0.994		**218-01-9**	27
NELAC	**Dibenz(a,h)anthracene**	**<0.994**	**ug/L**	0.994		**53-70-3**	27
NELAC	**Diethyl phthalate**	**<5.67**	**ug/L**	5.67		**84-66-2**	27
NELAC	**Dimethyl phthalate**	**<4.77**	**ug/L**	4.77		**131-11-3**	27
NELAC	**Di-n-butylphthalate**	**<7.46**	**ug/L**	7.46		**84-74-2**	27
NELAC	**Di-n-octylphthalate**	**<0.994**	**ug/L**	0.994		**117-84-0**	27
NELAC	**Fluoranthene(Benzo(j,k)fluorene)**	**<0.994**	**ug/L**	0.994		**206-44-0**	27
NELAC	**Fluorene**	**<0.994**	**ug/L**	0.994		**86-73-7**	27
NELAC	**Hexachlorobenzene**	**<0.994**	**ug/L**	0.994		**118-74-1**	27
NELAC	**Hexachlorobutadiene**	**<0.994**	**ug/L**	0.994		**87-68-3**	27
NELAC	**Hexachlorocyclopentadiene**	**<8.95**	**ug/L**	8.95		**77-47-4**	27
NELAC	**Hexachloroethane**	**<0.994**	**ug/L**	0.994	S	**67-72-1**	27
NELAC	**Indeno(1,2,3-cd)pyrene**	**<0.994**	**ug/L**	0.994		**193-39-5**	27
NELAC	**Isophorone**	**<0.994**	**ug/L**	0.994		**78-59-1**	27
NELAC	**Naphthalene**	**<0.994**	**ug/L**	0.994		**91-20-3**	27
NELAC	**Nitrobenzene**	**<0.994**	**ug/L**	0.994		**98-95-3**	27
NELAC	**n-Nitrosodiethylamine**	**<0.994**	**ug/L**	0.994		**55-18-5**	27
NELAC	**N-Nitrosodimethylamine**	**<6.96**	**ug/L**	6.96		**62-75-9**	27
NELAC	**n-Nitroso-di-n-butylamine**	**<0.994**	**ug/L**	0.994		**924-16-3**	27
NELAC	**N-Nitrosodi-n-propylamine**	**<0.994**	**ug/L**	0.994		**621-64-7**	27
NELAC	**N-Nitrosodiphenylamine (as DPA**	**<0.994**	**ug/L**	0.994		**86-30-6**	27
NELAC	**p-Chloro-m-Cresol (4-Chloro-3-me**	**<2.39**	**ug/L**	2.39		**59-50-7**	27
NELAC	**Pentachlorobenzene**	**<0.994**	**ug/L**	0.994		**608-93-5**	27
NELAC	**Pentachlorophenol**	**<0.994**	**ug/L**	0.994		**87-86-5**	27
NELAC	**Phenanthrene**	**<0.994**	**ug/L**	0.994		**85-01-8**	27
NELAC	**Phenol**	**<1.49**	**ug/L**	1.49		**108-95-2**	27
NELAC	**Pyrene**	**<0.994**	**ug/L**	0.994		**129-00-0**	27
NELAC	**Pyridine**	**<5.37**	**ug/L**	5.37		**110-86-1**	27

EPA 625.1 Prepared: 1147746 11/13/2024 15:30:00 Calculated 1148524 11/21/2024 16:30:44 CAL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Cresols Total**	**<6.16**	**ug/L**	6.16		**1319-77-3, etc.**	27

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504 North Queen St.
Palestine, TX 75801-

Printed: 12/03/2024

2353844 Effluent Add'l Testing Received: 11/12/2024

Non-Potable Water Collected by: GAC SPL Kilgore PO:
Taken: 11/12/2024 09:40:00

EPA 632 Prepared: 1147604 11/13/2024 14:30:00 Analyzed 1148993 11/19/2024 23:39:00 BRU

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Carbaryl (Sevin)**	**<2.58**	**ug/L**	2.58		**63-25-2**	23
z	**Diuron**	**<0.0464**	**ug/L**	0.0464		**330-54-1**	23

TX 1001 Prepared: 1148986 11/21/2024 10:50:00 Analyzed 1149585 11/25/2024 20:07:00 DWL

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	**Tributyltin hydride**	**<0.00712**	**ug/L**	0.00712		**688-73-3**	31

Sample Preparation

2353843 Sampling and Transport Received: 11/12/2024

11/12/2024

Prepared: 11/12/2024 15:02:31 Calculated 11/12/2024 15:02:31 CAL

Pickup/Sampling/Transport **Verified**

2353844 Effluent Add'l Testing Received: 11/12/2024

11/12/2024

Prepared: 11/12/2024 15:02:31 Calculated 11/12/2024 15:02:31 CAL

z	**Environmental Fee (per Project)**	**Verified**
z	**LL Mercury Test Prep**	**Verified**
z	**SUB Shipped**	**Verified**

ATTACHMENT No. 15

Pollutant Analysis

Page 55, Worksheet 4.0, Table 4.0 (2)

Technical Report

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2401240
Project:	Effluent Add'l Testing	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2400645-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	11/27/24 23:26
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/21/24
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P550275	**Blank File Name:**	P550266
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P550263

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	163		1.53	5.00	0.76	1.000	1
1,2,3,7,8-PeCDD	951		0.468	25.0	1.60	1.000	1
1,2,3,4,7,8-HxCDD	975		0.755	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	896		0.634	25.0	1.29	1.000	1
1,2,3,7,8,9-HxCDD	976		0.670	25.0	1.26	1.007	1
1,2,3,4,6,7,8-HpCDD	955		1.03	25.0	1.11	1.000	1
OCDD	2120		10.1	50.0	0.88	1.000	1
,3,7,8-TCDF	172		1.39	5.00	0.75	1.001	1
1,2,3,7,8-PeCDF	916		0.643	25.0	1.46	1.000	1
2,3,4,7,8-PeCDF	874		0.574	25.0	1.48	1.000	1
1,2,3,4,7,8-HxCDF	835		0.337	25.0	1.19	1.000	1
1,2,3,6,7,8-HxCDF	855		0.355	25.0	1.13	1.000	1
1,2,3,7,8,9-HxCDF	849		0.499	25.0	1.16	1.000	1
2,3,4,6,7,8-HxCDF	963		0.416	25.0	1.15	1.000	1
1,2,3,4,6,7,8-HpCDF	950		2.72	25.0	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	895		3.58	25.0	1.02	1.000	1
OCDF	1900		8.62	50.0	0.84	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	SPL, Inc.-Ana-lab	**Service Request:**	E2401240
Project:	Effluent Add'l Testing	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2400645-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	11/27/24 23:26
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	11/21/24
Sample Amount:	1000.0mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P550275	**Blank File Name:**	P550266
ICAL Date:	11/04/24	**Cal Ver. File Name:**	P550263

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	163		1.53	5.00	0.76		1
Total Penta-Dioxins	951		0.468	25.0	1.60		1
Total Hexa-Dioxins	2850		0.681	25.0	1.28		1
Total Hepta-Dioxins	972		1.03	25.0	0.93		1
Total Tetra-Furans	172		1.39	5.00	0.82		1
Total Penta-Furans	1790		0.608	25.0	1.58		1
Total Hexa-Furans	3500		0.395	25.0	1.19		1
Total Hepta-Furans	1840		3.11	25.0	0.99		1

ATTACHMENT No. 16

Toxicity Testing Summary

Page 57, Table 5.0, Worksheet 5.0

Technical Report

ATTACHMENT No. 16

WORKSHEET 5.0, TABLE 5.0

City of Palestine TownCreek Wastewater Treatment Plant Discharge Permit Renewal
TPDES Permit No. WQ10244-001 / TX0025453

Page 57, Table 5.0, Section 3 - SUMMARY OF WET TESTS

TEST No.	TEST TYPE	TEST DATE	TEST SPECIES	NOEC SURVIVAL	NOEC SUBLETHAL
87991	Chronic	2/13/2024	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
87992	Acute	2/13/2024	Daphnia pulex/ Pimephales promelas	100%	100%
87993	Chronic	6/11/2024	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
87996	Acute	8/6/2024	Daphnia pulex/ Pimephales promelas	100%	100%
87994	Chronic	8/6/2024	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
84227	Chronic	1/24/2023	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
84228	Acute	1/24/2023	Daphnia pulex/ Pimephales promelas	100%	100%
85485	Chronic	5/23/2023	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
85486	Chronic	8/8/2023	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
85488	Acute	8/8/2023	Daphnia pulex/ Pimephales promelas	100%	100%
85487	Chronic	11/14/2023	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
82241	Acute	2/15/2022	Daphnia pulex/ Pimephales promelas	100%	100%
82240	Chronic	2/15/2022	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
82242	Chronic	5/10/2022	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
82243	Chronic	8/16/2022	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
82245	Acute	8/16/2022	Daphnia pulex/ Pimephales promelas	100%	100%
82244	Chronic	11/8/2022	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
	Acute	2/9/2021	Daphne Pulex/ Pimephales promelas	100%	100%
	Chronic	2/9/2021	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
80297	Chronic	6/15/2021	Ceriodaphnia dubia/ Pimephales promelas	99%	99%
77362	Acute	7/27/2021	Daphnia pulex/ Pimephales promelas	100%	100%
77363	Chronic	7/27/2021	Ceriodaphnia dubia/ Pimephales promelas	99%	99%

ATTACHMENT No. 17

Industrial Waste Contributors

Page 58, Worksheet 6.0

Technical Report

Abesha Michael

From: Sigi West <swest@ksaeng.com>
Sent: Tuesday, December 31, 2024 2:11 PM
To: Abesha Michael
Cc: bday@palestine-tx.org
Subject: RE: Application to Renew, No. WQ0010244001 - Notice of Deficiency Letter
Attachments: dom-tpdes-renew-nori-murechno Spanish NORI.docx

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Abesha,
Happy New Year!
I have read and verify that the information in the portion of the notice sent is correct.
I have attached the Spanish Notice to this email, as required.

Please let me know if you need anything else regarding this permit application.

Siglinda "Sigi" West | Regulatory Compliance Specialist
KSA | www.ksaeng.com
Main: 877.572.3647 ext 1314 | Cell: 903.520.9960
swest@ksaeng.com

From: Abesha Michael <Abesha.Michael@tceq.texas.gov>
Sent: Tuesday, December 31, 2024 1:27 PM
To: Sigi West <swest@ksaeng.com>
Cc: bday@palestine-tx.org
Subject: Application to Renew, No. WQ0010244001 - Notice of Deficiency Letter

Dear Ms. West:

The attached Notice of Deficiency letter sent on December 31, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by January 14, 2025.

Thank you,

Abesha H. Michael
Applications Review & Processing Team
Water Quality Division Support Section
Water Quality Division, MC 148
PO Box 13087
Austin, Texas 78711
Phone: o: 512-239-4912
Email: abesha.michael@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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. WQ0010244001

SOLICITUD. La Ciudad de Palestine 504 North Queen, Palestine, Texas 75801 Texas 75801 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010244001 (EPA I.D. No. TX0025453) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 4,700,000 galones por día. La planta está ubicada 800 Prívate Road 6078 Palestine, en el Condado de Anderson, Texas 75801. La Ruta de descarga es del sitio de la planta a a Bassett Creek; de allí a Town Creek; de allí a Keechie Creek; de allí al río Trinity sobre el lago Livingston. La TCEQ recibió esta solicitud el Desembre 18, 2024. La solicitud para el permiso está disponible para leerla y copiarla en 504 North Queen Palestine, en el Condado de Anderson, Texas 75801. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-95.705277,31.725555&level=18

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

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

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de

derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at 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. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del La Ciudad de Palestine a la dirección indicada arriba o llamando a Sr. Ben Day, Supervisor de Aguas Residuales, al 903.731.8431.

Fecha de emisión

TPDES PERMIT NO.
WQ0010244001
[For TCEQ office use only - EPA I.D. No. TX0025453]

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

This is a renewal that replaces TPDES Permit No. WQ0010244001 issued on May 10, 2022.

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

City of Palestine

whose mailing address is

504 North Queen Street
Palestine, Texas 75801

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

located at 800 Private Road 6078, in Anderson County, Texas 75801

to Bassett Creek, thence to Town Creek, thence to Keechie Creek, thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, **five years from the date of issuance**.

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 4.70 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 8,160 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (392)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (588)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (118)	6	10	15	Two/week	Composite
Total Dissolved Solid	Report (Report)	N/A	Report	N/A	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.

6. The effluent shall contain a minimum dissolved oxygen of 5.0 mg/l and shall be monitored twice per week by grab sample.

7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

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

1. Flow Measurements

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

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

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

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

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

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

2. Concentration Measurements

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

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

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

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

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

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

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

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

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

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

3. Sample Type

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

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

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

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

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

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

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

c. Records of monitoring activities shall include the following:

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

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

iii. date and time of analysis;

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

v. the technique or method of analysis; and

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

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

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

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

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

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

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

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

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

9. Changes in Discharges of Toxic Substances

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

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

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

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

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

   iv. The level established by the TCEQ.

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

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

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

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

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

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

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

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

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

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

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

PERMIT CONDITIONS

1. General

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

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

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

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

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

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

2. Compliance

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

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

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

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

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

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

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

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

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

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

3. Inspections and Entry

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

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

4. Permit Amendment and/or Renewal

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

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

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

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

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

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

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

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

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

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

5. Permit Transfer

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

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

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

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

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

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

       i. the permittee;

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

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

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

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

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

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

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

7. Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

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

A. General Requirements

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

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

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

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 5) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

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

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

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

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

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

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

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

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

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

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

Alternative 1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

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

4. Vector Attraction Reduction Requirements

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

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

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

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

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

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

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

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

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

Alternative 9 -

i. Biosolids shall be injected below the surface of the land.

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

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

Alternative 10-

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

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

C. Monitoring Requirements

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

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

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

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

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

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

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

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

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

D. Notification Requirements

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

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

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

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

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

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

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

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

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

5. The following certification statement:

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

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

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

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

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

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224).

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

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

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

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

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

8. Date(s) of transport.

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

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

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

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

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

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

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

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

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

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 report.

    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 5) 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 5) and the Enforcement Division (MC 224), by September 30 of each year.

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

E. Record Keeping Requirements

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

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

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

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

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

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

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

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

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

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

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

B. Record Keeping Requirements

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

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

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

   d. the location of the receiving facility or facilities;

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

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

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

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

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 5) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

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

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OTHER REQUIREMENTS

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

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

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

3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.
4. The permittee shall maintain sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). See Attachment A.

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

6. The permittee submitted an approval letter from the Texas Water Development Board dated June 26, 1996, for plans and specifications approval of the facility in accordance with the requirements in 30 TAC Section 317.1.

7. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Domestic Wastewater Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, one/week may be reduced to two/month. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Domestic Wastewater Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Palestine** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **August 22, 1984,** and modified on **June 19, 1992,** and **April 30, 2012.**

   The legal authority and the POTW's pretreatment program are not in compliance with the current 40 CFR Part 403 regulations *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]* and 30 TAC Chapter 305, as amended.

   There is documentation to suggest that the Control Authority's (CA's) program was modified to incorporate the required Streamlining Rule provisions on April 30, 2012; however, it was discovered during the pretreatment program audit and municipal pollution prevention assessment conducted on November 5-7, 2019, both the TCEQ's and the CA's approved program documents do not include any of the required Streamlining Rule provisions. The CA was unable to produce a copy of their program with the Streamlining elements. As a result, the final audit report required the submittal of a modification to the TCEQ for review to incorporate required Streamlining Rule provisions by **October 4, 2020**. The permittee failed to submit the required Streamlining Rule provisions by **October 4, 2020**.

   The TPDES Permit No. WQ0010244001, issued on May 10, 2022, required the permittee to, within twelve months of the issued date of the permit (*i.e.*, May 10, 2023) submit the required Streamlining Rule provisions, to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. The Executive Director has not yet received this submission.

   In order to ensure that the permittee has a program to assure compliance with such pretreatment standards and requirements, the permittee shall submit a modification to its pretreatment program containing all required [*i.e.* more stringent] Streamlining Rule provisions to the Executive Director care of the Pretreatment Team (MC148) of the Water Quality Division within **six (6) months** of the issued date of this permit. This submission shall be signed and certified by the permittee *[according to 40 CFR § 122.41(k)]*.

   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 is required to redevelop the existing technically based local limits (TBLLs) and additional components of the pretreatment program.

   The permittee has notified the TCEQ of their intent to redevelop their TBLLs as a substantial modification to its approved pretreatment program and submitted a sampling plan to the TCEQ on **October 26, 2018**, and a notice of acceptance was emailed to the permittee on **October 10, 2019**. **The TPDES Permit No. WQ0010244001, issued on May 10, 2022, required the permittee to, within twelve months of the issued date of the permit (*i.e.,* May 10, 2023) submit the required TBLLs package, to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. The Executive Director has not yet received this submission.**

   The TBLLs package, draft legal authority which incorporates such revisions, and additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev.10/14/05]*, and applicable state and local law, including Enforcement Response Plan and Standard Operating Procedures (including forms), and all required [*i.e.* more stringent] Streamlining Rule provisions, shall be submitted within **six (6)** months of the issued date of this permit. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

   If after review of the substantial modification submission, the Executive Director determines that the submission does not comply with applicable requirements, including 40 CFR §§403.8 and 403.9, the Executive Director will notify the permittee. According to 40 CFR §403.11(c), the notification will include suggested revisions to bring the substantial modification submission into compliance with applicable requirements, including 40 CFR §§403.8(b) and (f) and 403.9(b). In such a case, revised information will be necessary for the Executive Director to make a determination on whether to approve or deny the permittee's substantial modification submission.

   Upon approval by the Executive Director of the substantial modification to this approved POTW pretreatment program, the requirement to develop and enforce specific prohibitions and/or limits to implement the prohibitions and limits set forth in 40 CFR §§403.5(a)(1), (b), (c)(1) and (3), and (d) is a condition of this permit. The specific prohibitions set out in 40 CFR §403.5(b) shall be enforced by the permittee unless modified under this provision.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per year** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**.

If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

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

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

   In addition, each **August** 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 Results[1]

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

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

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

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

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

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

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

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

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

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

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

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

Endnotes:

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

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

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

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

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

   Where:

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

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

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

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

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

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

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

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

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 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, a chemical-specific effluent limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

   e. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly tests demonstrates significant toxicity, the permittee may submit this information in writing

and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

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

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fail to meet the following criteria:

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

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

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

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b..

3) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

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

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

6) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 3 will be used when making a determination of test acceptability.

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

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and

alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of pre-existing instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion (i.e., 7 days); and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of three composite samples from Outfall 001. The second and third composite samples will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for any subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate

days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

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

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a “1” if the NOEC for reproduction is less than the critical dilution; otherwise, enter a “0.”

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “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

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM:_____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	32%	42%	56%	75%	100%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)
Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

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

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	32%	42%	56%	75%	100%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

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

   CRITICAL DILUTION (100%): _____ YES _____ NO

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

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
32%							
42%							
56%							
75%							
100%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

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 dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (100%): _____ 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%									
32%									
42%									
56%									
75%									
100%									

* Coefficient of Variation = standard deviation x 100/mean

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

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

   CRITICAL DILUTION (100%): _____ 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 whole effluent toxicity (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. Except as discussed in item 2.b., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a Best Management Practice (BMP), Chemical-Specific (CS) limits, or other appropriate actions to address toxicity. The permittee may be required to conduct a Toxicity Reduction Evaluation after multiple toxic events.

e. As the dilution series specified in the Chronic Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this Section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in item a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency defined in item b.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with item 1.c., the control and dilution water shall normally consist of standard, synthetic, moderately hard, reconstituted water. If the permittee utilizes the results of a chronic test to satisfy the requirements in item 1.e., the permittee may use the receiving water or dilution water that meets the requirements of item 2.a as the control and dilution water.

c. Samples and Composites

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

2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

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

3. Reporting

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

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter a "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee

shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE Action Plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the

progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

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

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

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

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

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

   The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

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

Enter percent effluent corresponding to the 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. WQ0010244001, EPA I.D. No. TX0025453, 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 Palestine
504 North Queen Street
Palestine, Texas 75801

Prepared By: Sonia Bhuiya
Domestic Permits Team
Domestic Wastewater Section (MC 148)
Water Quality Division
(512) 239-1205

Date: November 24, 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 4.70 million gallons per day (MGD). The existing wastewater treatment facility serves the City of Palestine.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 800 Private Road 6078, in Anderson County, Texas 75801.

Outfall Location:

Outfall Number	Latitude	Longitude
001	31.72653 N	95.706402 W

The treated effluent is discharged to Bassett Creek, thence to Town Creek, thence to Keechie Creek, thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin. The unclassified receiving water use is high aquatic life use for Bassett Creek and Town Creek. The designated uses for Segment No. 0804 are primary contact recreation and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Town Creek Wastewater Treatment Facility (WWTF) is an activated sludge process plant operated in the extended aeration mode. Treatment units include comminutors, bar screens, a grit chamber, a Parshall flume, an oxidation ditch, three final clarifiers, an aerobic sludge digester, a sludge dewatering centrifuge, sludge drying beds, two chlorine contact chambers, and a dechlorination chamber. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ authorized composting facility, Neches Composting Utility, Permit No. 42011, in Cherokee 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 Town Creek WWTF 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 November 2019 through December 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), and ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	2.1
$CBOD_5$, mg/l	3.32
TSS, mg/l	3.38
NH_3-N, mg/l	0.1
E. coli, CFU or MPN per 100 ml	1

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

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

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.70 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 8,160 gallons per minute.

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

$CBOD_5$	10	392	15	25
TSS	15	588	25	40
NH_3-N	3	118	6	10
Total Dissolved Solid (TDS)	Report	Report	N/A	Report
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

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

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
TDS	Two/week
DO	Two/week
E. coli	One/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ authorized composting facility, Neches Composting Utility, Permit No. 42011, in Cherokee 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 August 22, 1984, and modified on June 19, 1992, and April 20, 2012. 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 **August** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the Publicly Owned Treatment Works (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 is required to redevelop the existing technically based local limits (TBLLs) and additional components of the pretreatment program.

The permittee has notified the TCEQ of their intent to redevelop their TBLLs as a substantial modification to its approved pretreatment program and submitted a sampling plan to the TCEQ on **October 26, 2018**, and a notice of acceptance was emailed to the permittee on **October 10, 2019**. **The TPDES Permit No. WQ0010244001, issued on May 10, 2022, required the permittee to, within twelve months of the issued date of the permit (*i.e.*, May 10, 2023) submit the required TBLLs package, to the TCEQ Pretreatment Team (MC 148) of the Water Quality Division. The Executive Director has not yet received this submission.**

The TBLLs package, draft legal authority which incorporates such revisions, and additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev.10/14/05]*, and applicable state and local law, including Enforcement Response Plan and Standard Operating Procedures (including forms), and all required [*i.e.* more stringent] Streamlining Rule provisions, shall be submitted within **six (6)** months of the issued date of this permit. This submission shall be signed and certified by the permittee *[according to 40 CFR § 122.41(k)]*.

The legal authority and the POTW's pretreatment program are not in compliance with current 40 CFR Part 403 regulations *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798]* and 30 TAC Chapter 305, as amended.

In order to ensure that the permittee has a program to assure compliance with such pretreatment standards and requirements, the permittee shall submit a modification to their pretreatment program containing all required [*i.e.* more stringent] Streamlining Rule provisions to the Executive Director care of the Pretreatment Team (MC148) of the Water Quality Division within **six (6) months** of the issued date of this permit. This submission shall be signed and certified by the permittee *[according to 40 CFR § 122.41(k)]*.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes 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 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) 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.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

Based on dissolved solids screening, monitoring requirements for total dissolved solids has been added to the draft permit.

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

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

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

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

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

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Bassett Creek, thence to Town Creek, thence to Keechie Creek, thence to Trinity River Above Lake Livingston in Segment No. 0804 of the Trinity River Basin. The unclassified receiving water use is high aquatic life use for Bassett Creek and Town Creek. The designated uses for Segment No. 0804 are primary contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. 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. 0804 is currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA § 303(d) list). The listings are for Polychlorinated Biphenyls (PCB) in edible tissue and dioxin in edible tissue from the lower end of the segment to the upper end of the segment (Assessment Unitss [AU] 0804_01 through 0804_07). Additionally, Town Creek (0804L) is also listed for elevated bacteria levels from the confluence with Keechi Creek upstream to State Highway 256 (Appendix D) (Assessment Unit [AU 0804L_01). Bassett Creek (0804M) is also listed on the 303(d) list for impaired fish community and impaired macrobenthic community in water from the confluence of Town Creek to Blue Lake (AUs 0804M_01 and 0804M_02).

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 PCBs or dioxin in edible tissue. The effluent from this facility should not affect the fish community and impaired macrobenthic communityof this segment. This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued to the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 334 mg/l total dissolved solids (TDS), 61 mg/l sulfate, and 48 mg/l chloride present in the effluent. The segment criteria for Segment No. 0804 are 600 mg/l for TDS, 150 mg/l for sulfate, and 150 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for chloride, or sulfate. The Standards Implementation Team recommends reporting requirements for TDS. See Attachment A of this Fact Sheet.

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

(2) CONVENTIONAL PARAMETERS

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

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

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

(3) COASTAL MANAGEMENT PLAN

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

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

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

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

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

Bassett Creek

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Bassett Creek. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Bassett Creek.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 4.70 MGD and the 7-day, 2-year (7Q2) flow of 0.10 cfs for Bassett Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 4.70 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	99.66%	Chronic Effluent %:	98.64%

Town Creek

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters Town Creek. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters Town Creek.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 4.70 MGD and the 7-day, 2-year (7Q2) flow of 0.94 cfs for Town Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 4.70 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	96.87%	Chronic Effluent %:	88.55%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level.

The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The 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 126 mg/l for hardness (as calcium carbonate), 46 mg/l for chlorides, 7.2 standard units for pH, and 41 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 and C 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

Bassett Creek

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 4.70 MGD and the harmonic mean flow of 0.22 cfs for Bassett Creek . The following critical effluent percentage is being used:

Human Health Effluent %: 97.06%

Town Creek

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 4.70 MGD and the harmonic mean flow of 4.31 cfs for Town Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 62.79%

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 Attachments B and C 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. 0804, 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 three years, the permittee has performed twenty-four chronic tests, with one demonstration of significant toxicity (i.e., one failure) by the water flea.

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 WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the testing frequency reduction after one year of quarterly testing.

(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 zero demonstrations of significant lethality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested

persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact 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. WQ0010244001 issued on May 10, 2022.

B. APPLICATION

Application received on December 18, 2024, and additional information received on January 23, 2022.

C. MEMORANDA

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

D. MISCELLANEOUS

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

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

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

Texas 2024 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the U.S. Environmental Protection Agency on November 13, 2024.

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

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	**City of Palestine**
Permit Number, Outfall:	**WQ0010244001**
Segment Number:	**0804**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**4.7**	MGD	Permit application
QS - Perennial stream harmonic mean flow	**1.69**	cfs	Critical Conditions memo 2021
QE - Average effluent flow	**7.2720**	cfs	Calculated
CA - TDS - ambient segment concentration	**334**	mg/L	2022 Draft IP, Appendix D
CA - chloride - ambient segment concentration	**42**	mg/L	2022 Draft IP, Appendix D
CA - sulfate - ambient segment concentration	**61**	mg/L	2022 Draft IP, Appendix D
CC - TDS - segment criterion	**600**	mg/L	2022 TSWQS, Appendix A
CC - chloride - segment criterion	**150**	mg/L	2022 TSWQS, Appendix A
CC - sulfate - segment criterion	**150**	mg/L	2022 TSWQS, Appendix A
CE - TDS - average effluent concentration	**640**	mg/L	Permit application
CE - chloride - average effluent concentration	**68**	mg/L	Permit application
CE - sulfate - average effluent concentration	**82.1**	mg/L	Permit application

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	661.82
Calculate the LTA	LTA = WLA * 0.93	615.49
Calculate the daily average	Daily Avg. = LTA * 1.47	**904.77**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**1914.18**
Calculate 70% of the daily average	70% of Daily Avg. =	633.34
Calculate 85% of the daily average	85% of Daily Avg. =	769.06

No permit limitations needed if:	**640**	**≤**	**633.34**		
Reporting needed if:	**640**	**>**	**633.34**	**but ≤**	**769.06**
Permit limits may be needed if:	**640**	**>**	**769.06**		

Reporting needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	175.10
Calculate the LTA	LTA = WLA * 0.93	162.84
Calculate the daily average	Daily Avg. = LTA * 1.47	**239.38**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**506.44**
Calculate 70% of the daily average	70% of Daily Avg. =	167.56
Calculate 85% of the daily average	85% of Daily Avg. =	203.47

No permit limitations needed if:	**68**	**≤**	**167.56**		
Reporting needed if:	**68**	**>**	**167.56**	**but ≤**	**203.47**
Permit limits may be needed if:	**68**	**>**	**203.47**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	170.68
Calculate the LTA	LTA = WLA * 0.93	158.74
Calculate the daily average	Daily Avg. = LTA * 1.47	**233.34**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**493.67**
Calculate 70% of the daily average	70% of Daily Avg. =	163.34
Calculate 85% of the daily average	85% of Daily Avg. =	198.34

No permit limitations needed if:	**82.1**	**≤**	**163.34**		
Reporting needed if:	**82.1**	**>**	**163.34**	**but ≤**	**198.34**
Permit limits may be needed if:	**82.1**	**>**	**198.34**		

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations for Bassett Creek

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Palestine
TPDES Permit No.:	WQ0010244001
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	November 8, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Bassett Creek
Segment No.:	0804
TSS (mg/L):	41
pH (Standard Units):	7.2
Hardness (mg/L as $CaCO_3$):	126
Chloride (mg/L):	42
Effluent Flow for Aquatic Life (MGD):	4.7
Critical Low Flow [7Q2] (cfs):	0.1
% Effluent for Chronic Aquatic Life (Mixing Zone):	98.64
% Effluent for Acute Aquatic Life (ZID):	99.66
Effluent Flow for Human Health (MGD):	4.7
Harmonic Mean Flow (cfs):	0.22
% Effluent for Human Health:	97.06
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	31817.63	0.434		1.00	Assumed
Cadmium	6.60	-1.13	59917.58	0.289		1.00	Assumed
Chromium (total)	6.52	-0.93	104739.62	0.189		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	104739.62	0.189		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	67071.80	0.267		1.00	Assumed
Lead	6.45	-0.80	144468.42	0.144		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	58981.15	0.293		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	52339.87	0.318		1.00	Assumed
Zinc	6.10	-0.70	93551.62	0.207		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.01	N/A	1.72	N/A	2.53	5.36
Aluminum	991	N/A	994	N/A	570	N/A	837	1772
Arsenic	340	150	786	350	451	270	396	839
Cadmium	10.7	0.289	37.3	1.01	21.4	0.779	1.14	2.42
Carbaryl	2.0	N/A	2.01	N/A	1.15	N/A	1.69	3.57
Chlordane	2.4	0.004	2.41	0.00406	1.38	0.00312	0.00458	0.00971
Chlorpyrifos	0.083	0.041	0.0833	0.0416	0.0477	0.0320	0.0470	0.0995
Chromium (trivalent)	688	90	3658	481	2096	370	544	1151
Chromium (hexavalent)	15.7	10.6	15.8	10.7	9.03	8.27	12.1	25.7
Copper	17.7	11.5	66.4	43.9	38.1	33.8	49.6	105
Cyanide (free)	45.8	10.7	46.0	10.8	26.3	8.35	12.2	25.9
4,4'-DDT	1.1	0.001	1.10	0.00101	0.632	0.000781	0.00114	0.00242
Demeton	N/A	0.1	N/A	0.101	N/A	0.0781	0.114	0.242
Diazinon	0.17	0.17	0.171	0.172	0.0977	0.133	0.143	0.303
Dicofol [Kelthane]	59.3	19.8	59.5	20.1	34.1	15.5	22.7	48.0
Dieldrin	0.24	0.002	0.241	0.00203	0.138	0.00156	0.00229	0.00485
Diuron	210	70	211	71.0	121	54.6	80.3	169
Endosulfan I (*alpha*)	0.22	0.056	0.221	0.0568	0.126	0.0437	0.0642	0.135
Endosulfan II (*beta*)	0.22	0.056	0.221	0.0568	0.126	0.0437	0.0642	0.135
Endosulfan sulfate	0.22	0.056	0.221	0.0568	0.126	0.0437	0.0642	0.135
Endrin	0.086	0.002	0.0863	0.00203	0.0494	0.00156	0.00229	0.00485
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0101	N/A	0.00781	0.0114	0.0242
Heptachlor	0.52	0.004	0.522	0.00406	0.299	0.00312	0.00458	0.00971
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	0.0811	0.647	0.0624	0.0917	0.194
Lead	83	3.23	576	22.7	330	17.5	25.6	54.3
Malathion	N/A	0.01	N/A	0.0101	N/A	0.00781	0.0114	0.0242
Mercury	2.4	1.3	2.41	1.32	1.38	1.01	1.49	3.15
Methoxychlor	N/A	0.03	N/A	0.0304	N/A	0.0234	0.0344	0.0728
Mirex	N/A	0.001	N/A	0.00101	N/A	0.000781	0.00114	0.00242
Nickel	569	63.2	1953	219	1119	169	248	524
Nonylphenol	28	6.6	28.1	6.69	16.1	5.15	7.57	16.0
Parathion (ethyl)	0.065	0.013	0.0652	0.0132	0.0374	0.0101	0.0149	0.0315
Pentachlorophenol	10.7	8.2	10.7	8.30	6.13	6.39	9.01	19.0
Phenanthrene	30	30	30.1	30.4	17.2	23.4	25.3	53.6
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.01	0.0142	1.15	0.0109	0.0160	0.0339
Selenium	20	5	20.1	5.07	11.5	3.90	5.73	12.1
Silver	0.8	N/A	9.45	N/A	5.42	N/A	7.96	16.8
Toxaphene	0.78	0.0002	0.783	0.000203	0.448	0.000156	0.000229	0.000485
Tributyltin [TBT]	0.13	0.024	0.130	0.0243	0.0747	0.0187	0.0275	0.0582
2,4,5 Trichlorophenol	136	64	136	64.9	78.2	50.0	73.4	155
Zinc	143	144	692	704	396	542	582	1232

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	118	110	161	342
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000118	0.0000110	0.0000161	0.0000341
Anthracene	1109	1317	13170	1357	1262	1854	3924

Antimony	6	1071	10710	1103	1026	1508	3191
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	599	557	818	1731
Benzidine	0.0015	0.107	1.07	0.110	0.103	0.150	0.318
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0258	0.0240	0.0352	0.0744
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00258	0.00240	0.00352	0.00744
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.283	0.263	0.386	0.817
Bis(2-chloroethyl)ether	0.60	42.83	428.3	44.1	41.0	60.3	127
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	7.78	7.23	10.6	22.4
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	283	263	387	819
Bromoform [Tribromomethane]	66.9	1060	10600	1092	1016	1492	3158
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	47.4	44.1	64.7	137
Chlordane	0.0025	0.0025	0.025	0.00258	0.00240	0.00352	0.00744
Chlorobenzene	100	2737	27370	2820	2622	3854	8155
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	189	175	257	545
Chloroform [Trichloromethane]	70	7697	76970	7930	7375	10840	22935
Chromium (hexavalent)	62	502	5020	517	481	707	1495
Chrysene	2.45	2.52	25.2	2.60	2.41	3.54	7.50
Cresols [Methylphenols]	1041	9301	93010	9582	8912	13100	27715
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00206	0.00192	0.00281	0.00595
4,4'-DDE	0.00013	0.00013	0.0013	0.000134	0.000125	0.000183	0.000387
4,4'-DDT	0.0004	0.0004	0.004	0.000412	0.000383	0.000563	0.00119
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	487	453	666	1409
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	4.37	4.06	5.97	12.6
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	613	570	838	1772
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	3399	3161	4646	9830
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	2.31	2.15	3.15	6.67
1,2-Dichloroethane	5	364	3640	375	349	512	1084
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	56781	52807	77625	164228
Dichloromethane [Methylene Chloride]	5	13333	133330	13736	12775	18778	39729
1,2-Dichloropropane	5	259	2590	267	248	364	771
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	123	114	167	354
Dicofol [Kelthane]	0.30	0.30	3	0.309	0.287	0.422	0.893
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.0000206	0.0000192	0.0000281	0.0000595
2,4-Dimethylphenol	444	8436	84360	8691	8083	11881	25137
Di-*n*-Butyl Phthalate	88.9	92.4	924	95.2	88.5	130	275
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	8.21E-08	7.64E-08	1.12E-07	2.37E-07
Endrin	0.02	0.02	0.2	0.0206	0.0192	0.0281	0.0595
Epichlorohydrin	53.5	2013	20130	2074	1929	2835	5998
Ethylbenzene	700	1867	18670	1923	1789	2629	5563
Ethylene Glycol	46744	1.68E+07	1.68E+08	17308255	16096677	23662115	50060666
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000103	0.0000958	0.000140	0.000297
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000299	0.000278	0.000408	0.000864
Hexachlorobenzene	0.00068	0.00068	0.0068	0.000701	0.000652	0.000957	0.00202
Hexachlorobutadiene	0.21	0.22	2.2	0.227	0.211	0.309	0.655
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.00865	0.00805	0.0118	0.0250
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.268	0.249	0.366	0.774

Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.351	0.327	0.480	1.01
Hexachlorocyclopentadiene	10.7	11.6	116	12.0	11.1	16.3	34.5
Hexachloroethane	1.84	2.33	23.3	2.40	2.23	3.28	6.94
Hexachlorophene	2.05	2.90	29	2.99	2.78	4.08	8.64
4,4'-Isopropylidenediphenol	1092	15982	159820	16466	15313	22509	47623
Lead	1.15	3.83	38.3	27.3	25.4	37.3	79.0
Mercury	0.0122	0.0122	0.122	0.0126	0.0117	0.0171	0.0363
Methoxychlor	2.92	3.0	30	3.09	2.87	4.22	8.93
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1022011	950470	1397191	2955963
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	10799	10043	14763	31234
Nickel	332	1140	11400	4015	3734	5488	11611
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	1930	1795	2638	5581
N-Nitrosodiethylamine	0.0037	2.1	21	2.16	2.01	2.95	6.25
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	4.33	4.02	5.91	12.5
Pentachlorobenzene	0.348	0.355	3.55	0.366	0.340	0.500	1.05
Pentachlorophenol	0.22	0.29	2.9	0.299	0.278	0.408	0.864
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.000659	0.000613	0.000901	0.00190
Pyridine	23	947	9470	976	907	1333	2821
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	0.247	0.230	0.338	0.715
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	27.1	25.2	37.1	78.5
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	288	268	394	834
Thallium	0.12	0.23	2.3	0.237	0.220	0.323	0.685
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0113	0.0105	0.0154	0.0327
2,4,5-TP [Silvex]	50	369	3690	380	354	519	1099
1,1,1-Trichloroethane	200	784354	7843540	808083	751517	1104730	2337219
1,1,2-Trichloroethane	5	166	1660	171	159	233	494
Trichloroethylene [Trichloroethene]	5	71.9	719	74.1	68.9	101	214
2,4,5-Trichlorophenol	1039	1867	18670	1923	1789	2629	5563
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	17.0	15.8	23.2	49.1

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	1.77	2.15
Aluminum	586	711
Arsenic	277	337
Cadmium	0.801	0.973
Carbaryl	1.18	1.43
Chlordane	0.00321	0.00390
Chlorpyrifos	0.0329	0.0399
Chromium (trivalent)	380	462
Chromium (hexavalent)	8.51	10.3
Copper	34.7	42.1
Cyanide (free)	8.59	10.4
4,4'-DDT	0.000803	0.000975
Demeton	0.0803	0.0975
Diazinon	0.100	0.122
Dicofol [Kelthane]	15.9	19.3
Dieldrin	0.00160	0.00195

Diuron	56.2	68.2
Endosulfan I (*alpha*)	0.0449	0.0546
Endosulfan II (*beta*)	0.0449	0.0546
Endosulfan sulfate	0.0449	0.0546
Endrin	0.00160	0.00195
Guthion [Azinphos Methyl]	0.00803	0.00975
Heptachlor	0.00321	0.00390
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0642	0.0780
Lead	17.9	21.8
Malathion	0.00803	0.00975
Mercury	1.04	1.26
Methoxychlor	0.0240	0.0292
Mirex	0.000803	0.000975
Nickel	173	210
Nonylphenol	5.30	6.43
Parathion (ethyl)	0.0104	0.0126
Pentachlorophenol	6.31	7.66
Phenanthrene	17.7	21.5
Polychlorinated Biphenyls [PCBs]	0.0112	0.0136
Selenium	4.01	4.87
Silver	5.57	6.76
Toxaphene	0.000160	0.000195
Tributyltin [TBT]	0.0192	0.0234
2,4,5 Trichlorophenol	51.4	62.4
Zinc	407	495

Human Health ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Acrylonitrile	113	137
Aldrin	0.0000113	0.0000137
Anthracene	1298	1576
Antimony	1055	1282
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	572	695
Benzidine	0.105	0.128
Benzo(*a*)anthracene	0.0246	0.0299
Benzo(*a*)pyrene	0.00246	0.00299
Bis(chloromethyl)ether	0.270	0.328
Bis(2-chloroethyl)ether	42.2	51.2
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	7.44	9.03
Bromodichloromethane [Dichlorobromomethane]	271	329
Bromoform [Tribromomethane]	1045	1269
Cadmium	N/A	N/A
Carbon Tetrachloride	45.3	55.0
Chlordane	0.00246	0.00299
Chlorobenzene	2698	3276
Chlorodibromomethane [Dibromochloromethane]	180	219
Chloroform [Trichloromethane]	7588	9214
Chromium (hexavalent)	494	600
Chrysene	2.48	3.01
Cresols [Methylphenols]	9170	11135

Cyanide (free)	N/A	N/A
4,4'-DDD	0.00197	0.00239
4,4'-DDE	0.000128	0.000155
4,4'-DDT	0.000394	0.000478
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	466	566
1,2-Dibromoethane [Ethylene Dibromide]	4.18	5.07
m-Dichlorobenzene [1,3-Dichlorobenzene]	586	712
o-Dichlorobenzene [1,2-Dichlorobenzene]	3252	3949
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	2.20	2.68
1,2-Dichloroethane	358	435
1,1-Dichloroethylene [1,1-Dichloroethene]	54338	65981
Dichloromethane [Methylene Chloride]	13145	15962
1,2-Dichloropropane	255	310
1,3-Dichloropropene [1,3-Dichloropropylene]	117	142
Dicofol [Kelthane]	0.295	0.359
Dieldrin	0.0000197	0.0000239
2,4-Dimethylphenol	8317	10099
Di-*n*-Butyl Phthalate	91.0	110
Dioxins/Furans [TCDD Equivalents]	7.85E-08	9.54E-08
Endrin	0.0197	0.0239
Epichlorohydrin	1984	2409
Ethylbenzene	1840	2235
Ethylene Glycol	16563480	20112798
Fluoride	N/A	N/A
Heptachlor	0.0000985	0.000119
Heptachlor Epoxide	0.000285	0.000347
Hexachlorobenzene	0.000670	0.000814
Hexachlorobutadiene	0.216	0.263
Hexachlorocyclohexane (*alpha*)	0.00828	0.0100
Hexachlorocyclohexane (*beta*)	0.256	0.311
Hexachlorocyclohexane (*gamma*) [Lindane]	0.336	0.408
Hexachlorocyclopentadiene	11.4	13.8
Hexachloroethane	2.29	2.78
Hexachlorophene	2.85	3.47
4,4'-Isopropylidenediphenol	15756	19133
Lead	26.1	31.7
Mercury	0.0120	0.0146
Methoxychlor	2.95	3.59
Methyl Ethyl Ketone	978034	1187612
Methyl *tert*-butyl ether [MTBE]	10334	12548
Nickel	3841	4665
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	1846	2242
N-Nitrosodiethylamine	2.07	2.51
N-Nitroso-di-*n*-Butylamine	4.14	5.02
Pentachlorobenzene	0.350	0.425
Pentachlorophenol	0.285	0.347
Polychlorinated Biphenyls [PCBs]	0.000630	0.000766
Pyridine	933	1133
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.236	0.287
1,1,2,2-Tetrachloroethane	25.9	31.5

Tetrachloroethylene [Tetrachloroethylene]	276	335
Thallium	0.226	0.275
Toluene	N/A	N/A
Toxaphene	0.0108	0.0131
2,4,5-TP [Silvex]	363	441
1,1,1-Trichloroethane	773311	939021
1,1,2-Trichloroethane	163	198
Trichloroethylene [Trichloroethene]	70.8	86.0
2,4,5-Trichlorophenol	1840	2235
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	16.2	19.7

Attachment C: Calculated Water Quality Based Effluent Limitations for Town Creek

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

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

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Palestine
TPDES Permit No.:	WQ0010244001
Outfall No.:	001
Prepared by:	Sonia Bhuiya
Date:	November 17, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Town Creek
Segment No.:	0804
TSS (mg/L):	41
pH (Standard Units):	7.2
Hardness (mg/L as $CaCO_3$):	126
Chloride (mg/L):	42
Effluent Flow for Aquatic Life (MGD):	4.7
Critical Low Flow [7Q2] (cfs):	0.94
% Effluent for Chronic Aquatic Life (Mixing Zone):	88.55
% Effluent for Acute Aquatic Life (ZID):	96.87
Effluent Flow for Human Health (MGD):	4.7
Harmonic Mean Flow (cfs):	4.31
% Effluent for Human Health:	62.79
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	31817.63	0.434		1.00	Assumed
Cadmium	6.60	-1.13	59917.58	0.289		1.00	Assumed
Chromium (total)	6.52	-0.93	104739.62	0.189		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	104739.62	0.189		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	67071.80	0.267		1.00	Assumed
Lead	6.45	-0.80	144468.42	0.144		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	58981.15	0.293		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	52339.87	0.318		1.00	Assumed
Zinc	6.10	-0.70	93551.62	0.207		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	FW Acute Criterion (µg/L)	FW Chronic Criterion (µg/L)	WLAa (µg/L)	WLAc (µg/L)	LTAa (µg/L)	LTAc (µg/L)	Daily Avg. (µg/L)	Daily Max. (µg/L)
Aldrin	3.0	N/A	3.10	N/A	1.77	N/A	2.60	5.51
Aluminum	991	N/A	1023	N/A	586	N/A	861	1823
Arsenic	340	150	809	390	463	301	441	934
Cadmium	10.7	0.289	38.3	1.13	22.0	0.868	1.27	2.69
Carbaryl	2.0	N/A	2.06	N/A	1.18	N/A	1.73	3.67
Chlordane	2.4	0.004	2.48	0.00452	1.42	0.00348	0.00511	0.0108
Chlorpyrifos	0.083	0.041	0.0857	0.0463	0.0491	0.0357	0.0524	0.110
Chromium (trivalent)	688	90	3763	535	2156	412	606	1282
Chromium (hexavalent)	15.7	10.6	16.2	12.0	9.29	9.22	13.5	28.6
Copper	17.7	11.5	68.4	48.9	39.2	37.6	55.2	116
Cyanide (free)	45.8	10.7	47.3	12.1	27.1	9.30	13.6	28.9
4,4'-DDT	1.1	0.001	1.14	0.00113	0.651	0.000870	0.00127	0.00270
Demeton	N/A	0.1	N/A	0.113	N/A	0.0870	0.127	0.270
Diazinon	0.17	0.17	0.175	0.192	0.101	0.148	0.147	0.312
Dicofol [Kelthane]	59.3	19.8	61.2	22.4	35.1	17.2	25.3	53.5
Dieldrin	0.24	0.002	0.248	0.00226	0.142	0.00174	0.00255	0.00540
Diuron	210	70	217	79.0	124	60.9	89.4	189
Endosulfan I (*alpha*)	0.22	0.056	0.227	0.0632	0.130	0.0487	0.0715	0.151
Endosulfan II (*beta*)	0.22	0.056	0.227	0.0632	0.130	0.0487	0.0715	0.151
Endosulfan sulfate	0.22	0.056	0.227	0.0632	0.130	0.0487	0.0715	0.151
Endrin	0.086	0.002	0.0888	0.00226	0.0509	0.00174	0.00255	0.00540
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0113	N/A	0.00870	0.0127	0.0270
Heptachlor	0.52	0.004	0.537	0.00452	0.308	0.00348	0.00511	0.0108
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.16	0.0903	0.666	0.0696	0.102	0.216
Lead	83	3.23	593	25.3	340	19.5	28.6	60.5
Malathion	N/A	0.01	N/A	0.0113	N/A	0.00870	0.0127	0.0270
Mercury	2.4	1.3	2.48	1.47	1.42	1.13	1.66	3.51
Methoxychlor	N/A	0.03	N/A	0.0339	N/A	0.0261	0.0383	0.0811
Mirex	N/A	0.001	N/A	0.00113	N/A	0.000870	0.00127	0.00270
Nickel	569	63.2	2009	244	1151	188	276	584
Nonylphenol	28	6.6	28.9	7.45	16.6	5.74	8.43	17.8
Parathion (ethyl)	0.065	0.013	0.0671	0.0147	0.0384	0.0113	0.0166	0.0351
Pentachlorophenol	10.7	8.2	11.0	9.24	6.31	7.11	9.27	19.6
Phenanthrene	30	30	31.0	33.9	17.7	26.1	26.0	55.1
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.06	0.0158	1.18	0.0122	0.0178	0.0378
Selenium	20	5	20.6	5.65	11.8	4.35	6.39	13.5
Silver	0.8	N/A	9.72	N/A	5.57	N/A	8.19	17.3
Toxaphene	0.78	0.0002	0.805	0.000226	0.461	0.000174	0.000255	0.000540
Tributyltin [TBT]	0.13	0.024	0.134	0.0271	0.0769	0.0209	0.0306	0.0649
2,4,5 Trichlorophenol	136	64	140	72.3	80.4	55.7	81.8	173
Zinc	143	144	711	785	408	604	599	1267

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	Water and Fish Criterion (µg/L)	Fish Only Criterion (µg/L)	Incidental Fish Criterion (µg/L)	WLAh (µg/L)	LTAh (µg/L)	Daily Avg. (µg/L)	Daily Max. (µg/L)
Acrylonitrile	1.0	115	1150	180	168	246	521
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000018 0	0.000016 7	0.000024 5	0.000052 0
Anthracene	1109	1317	13170	2065	1920	2823	5972

Antimony	6	1071	10710	1679	1562	2295	4856
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	911	847	1245	2634
Benzidine	0.0015	0.107	1.07	0.168	0.156	0.229	0.485
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0392	0.0365	0.0535	0.113
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00392	0.00365	0.00535	0.0113
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.430	0.400	0.588	1.24
Bis(2-chloroethyl)ether	0.60	42.83	428.3	67.2	62.5	91.8	194
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	11.8	11.0	16.1	34.2
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	431	401	589	1247
Bromoform [Tribromomethane]	66.9	1060	10600	1662	1546	2272	4807
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	72.1	67.1	98.6	208
Chlordane	0.0025	0.0025	0.025	0.00392	0.00365	0.00535	0.0113
Chlorobenzene	100	2737	27370	4291	3991	5866	12412
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	287	267	392	829
Chloroform [Trichloromethane]	70	7697	76970	12068	11224	16498	34905
Chromium (hexavalent)	62	502	5020	787	732	1076	2276
Chrysene	2.45	2.52	25.2	3.95	3.67	5.40	11.4
Cresols [Methylphenols]	1041	9301	93010	14583	13563	19936	42179
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00314	0.00292	0.00428	0.00906
4,4'-DDE	0.00013	0.00013	0.0013	0.000204	0.000190	0.000278	0.000589
4,4'-DDT	0.0004	0.0004	0.004	0.000627	0.000583	0.000857	0.00181
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	742	690	1013	2145
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	6.65	6.18	9.08	19.2
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	933	868	1275	2698
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	5173	4811	7071	14960
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	3.51	3.27	4.80	10.1
1,2-Dichloroethane	5	364	3640	571	531	780	1650
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	86415	80366	118138	249938
Dichloromethane [Methylene Chloride]	5	13333	133330	20905	19442	28579	60464
1,2-Dichloropropane	5	259	2590	406	378	555	1174
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	187	174	255	539
Dicofol [Kelthane]	0.30	0.30	3	0.470	0.437	0.643	1.36
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000031 4	0.000029 2	0.000042 8	0.000090 6
2,4-Dimethylphenol	444	8436	84360	13227	12301	18082	38256
Di-*n*-Butyl Phthalate	88.9	92.4	924	145	135	198	419
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.25E-07	1.16E-07	1.70E-07	3.61E-07
Endrin	0.02	0.02	0.2	0.0314	0.0292	0.0428	0.0906
Epichlorohydrin	53.5	2013	20130	3156	2935	4314	9128
Ethylbenzene	700	1867	18670	2927	2722	4001	8466
Ethylene Glycol	46744	1.68E+07	1.68E+08	26341333	24497440	36011236	76187038
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000157	0.000146	0.000214	0.000453
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000455	0.000423	0.000621	0.00131
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00107	0.000992	0.00145	0.00308
Hexachlorobutadiene	0.21	0.22	2.2	0.345	0.321	0.471	0.997
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0132	0.0122	0.0180	0.0380
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.408	0.379	0.557	1.17
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.535	0.497	0.730	1.54

Hexachlorocyclopentadiene	10.7	11.6	116	18.2	16.9	24.8	52.6
Hexachloroethane	1.84	2.33	23.3	3.65	3.40	4.99	10.5
Hexachlorophene	2.05	2.90	29	4.55	4.23	6.21	13.1
4,4'-Isopropylidenediphenol	1092	15982	159820	25059	23305	34257	72477
Lead	1.15	3.83	38.3	41.6	38.7	56.8	120
Mercury	0.0122	0.0122	0.122	0.0191	0.0178	0.0261	0.0553
Methoxychlor	2.92	3.0	30	4.70	4.37	6.43	13.6
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	1555393	1446516	2126377	4498663
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	16435	15285	22468	47535
Nickel	332	1140	11400	6110	5682	8352	17671
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	2937	2731	4014	8493
N-Nitrosodiethylamine	0.0037	2.1	21	3.29	3.06	4.50	9.52
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	6.59	6.12	9.00	19.0
Pentachlorobenzene	0.348	0.355	3.55	0.557	0.518	0.760	1.60
Pentachlorophenol	0.22	0.29	2.9	0.455	0.423	0.621	1.31
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00100	0.000933	0.00137	0.00290
Pyridine	23	947	9470	1485	1381	2029	4294
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	0.376	0.350	0.514	1.08
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	41.3	38.4	56.4	119
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	439	408	600	1269
Thallium	0.12	0.23	2.3	0.361	0.335	0.493	1.04
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0172	0.0160	0.0235	0.0498
2,4,5-TP [Silvex]	50	369	3690	579	538	790	1673
1,1,1-Trichloroethane	200	784354	7843540	1229817	1143730	1681283	3557000
1,1,2-Trichloroethane	5	166	1660	260	242	355	752
Trichloroethylene [Trichloroethene]	5	71.9	719	113	105	154	326
2,4,5-Trichlorophenol	1039	1867	18670	2927	2722	4001	8466
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	25.9	24.1	35.3	74.8

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	1.82	2.21
Aluminum	603	732
Arsenic	309	375
Cadmium	0.893	1.08
Carbaryl	1.21	1.47
Chlordane	0.00357	0.00434
Chlorpyrifos	0.0366	0.0445
Chromium (trivalent)	424	515
Chromium (hexavalent)	9.48	11.5
Copper	38.7	47.0
Cyanide (free)	9.57	11.6
4,4'-DDT	0.000894	0.00108
Demeton	0.0894	0.108
Diazinon	0.103	0.125
Dicofol [Kelthane]	17.7	21.5
Dieldrin	0.00178	0.00217
Diuron	62.6	76.0

Endosulfan I (*alpha*)	0.0501	0.0608
Endosulfan II (*beta*)	0.0501	0.0608
Endosulfan sulfate	0.0501	0.0608
Endrin	0.00178	0.00217
Guthion [Azinphos Methyl]	0.00894	0.0108
Heptachlor	0.00357	0.00434
Hexachlorocyclohexane (*gamma*) [Lindane]	0.0715	0.0869
Lead	20.0	24.3
Malathion	0.00894	0.0108
Mercury	1.16	1.41
Methoxychlor	0.0268	0.0325
Mirex	0.000894	0.00108
Nickel	193	234
Nonylphenol	5.90	7.17
Parathion (ethyl)	0.0116	0.0141
Pentachlorophenol	6.49	7.88
Phenanthrene	18.2	22.1
Polychlorinated Biphenyls [PCBs]	0.0125	0.0152
Selenium	4.47	5.43
Silver	5.73	6.96
Toxaphene	0.000178	0.000217
Tributyltin [TBT]	0.0214	0.0260
2,4,5 Trichlorophenol	57.2	69.5
Zinc	419	509

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	172	209
Aldrin	0.0000172	0.0000208
Anthracene	1976	2399
Antimony	1607	1951
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	871	1058
Benzidine	0.160	0.194
Benzo(*a*)anthracene	0.0375	0.0455
Benzo(*a*)pyrene	0.00375	0.00455
Bis(chloromethyl)ether	0.411	0.500
Bis(2-chloroethyl)ether	64.2	78.0
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	11.3	13.7
Bromodichloromethane [Dichlorobromomethane]	412	501
Bromoform [Tribromomethane]	1590	1931
Cadmium	N/A	N/A
Carbon Tetrachloride	69.0	83.8
Chlordane	0.00375	0.00455
Chlorobenzene	4106	4986
Chlorodibromomethane [Dibromochloromethane]	274	333
Chloroform [Trichloromethane]	11549	14023
Chromium (hexavalent)	753	914
Chrysene	3.78	4.59
Cresols [Methylphenols]	13955	16946
Cyanide (free)	N/A	N/A

4,4'-DDD	0.00300	0.00364
4,4'-DDE	0.000195	0.000236
4,4'-DDT	0.000600	0.000728
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	709	861
1,2-Dibromoethane [Ethylene Dibromide]	6.36	7.72
m-Dichlorobenzene [1,3-Dichlorobenzene]	892	1084
o-Dichlorobenzene [1,2-Dichlorobenzene]	4950	6010
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	3.36	4.08
1,2-Dichloroethane	546	663
1,1-Dichloroethylene [1,1-Dichloroethene]	82696	100417
Dichloromethane [Methylene Chloride]	20005	24292
1,2-Dichloropropane	388	471
1,3-Dichloropropene [1,3-Dichloropropylene]	178	216
Dicofol [Kelthane]	0.450	0.546
Dieldrin	0.0000300	0.0000364
2,4-Dimethylphenol	12657	15370
Di-*n*-Butyl Phthalate	138	168
Dioxins/Furans [TCDD Equivalents]	1.19E-07	1.45E-07
Endrin	0.0300	0.0364
Epichlorohydrin	3020	3667
Ethylbenzene	2801	3401
Ethylene Glycol	25207865	30609551
Fluoride	N/A	N/A
Heptachlor	0.000150	0.000182
Heptachlor Epoxide	0.000435	0.000528
Hexachlorobenzene	0.00102	0.00123
Hexachlorobutadiene	0.330	0.400
Hexachlorocyclohexane (*alpha*)	0.0126	0.0153
Hexachlorocyclohexane (*beta*)	0.390	0.473
Hexachlorocyclohexane (*gamma*) [Lindane]	0.511	0.621
Hexachlorocyclopentadiene	17.4	21.1
Hexachloroethane	3.49	4.24
Hexachlorophene	4.35	5.28
4,4'-Isopropylidenediphenol	23980	29119
Lead	39.7	48.3
Mercury	0.0183	0.0222
Methoxychlor	4.50	5.46
Methyl Ethyl Ketone	1488464	1807421
Methyl *tert*-butyl ether [MTBE]	15727	19098
Nickel	5846	7099
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	2810	3412
N-Nitrosodiethylamine	3.15	3.82
N-Nitroso-di-*n*-Butylamine	6.30	7.65
Pentachlorobenzene	0.532	0.646
Pentachlorophenol	0.435	0.528
Polychlorinated Biphenyls [PCBs]	0.000960	0.00116
Pyridine	1420	1725
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.360	0.437
1,1,2,2-Tetrachloroethane	39.5	48.0
Tetrachloroethylene [Tetrachloroethylene]	420	510
Thallium	0.345	0.419

Toluene	N/A	N/A
Toxaphene	0.0165	0.0200
2,4,5-TP [Silvex]	553	672
1,1,1-Trichloroethane	1176898	1429090
1,1,2-Trichloroethane	249	302
Trichloroethylene [Trichloroethene]	107	131
2,4,5-Trichlorophenol	2801	3401
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	24.7	30.0