# 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

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# Portada de Paquete Técnico

**Este archivo contiene los siguientes documentos:**

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

**English Plain Language Summary**

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

Lennar Homes of Texas Land and Construction, LTD and Morris, Jeanette R & Bobbie J Neff have applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day via a discharge point that flows into an unnamed intermittent stream, thence to Potter Creek, thence to Canyon Lake in Segment 1805 of the Guadalupe River Basin.

The domestic wastewater treatment facility will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near the city of Fischer in Comal County, Texas 78133 The permit application will be available for viewing and copying at Mammen Public Library, 131 Bulverde Crossing, Bulverde in Comal County, Texas.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize chlorine or UV disinfection.

**Spanish Plain Language Summary**

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

Lennar Homes of Texas Land and Construction, LTD y Morris, Jeanette R & Bobbie J Neff han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) un nuevo permiso para el Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) para autorizar la eliminación de aguas residuales tratadas. a un volumen que no debe exceder un flujo promedio diario de 600,000 galones por día a través de un punto de descarga que desemboca en un arroyo intermitente sin nombre, de allí a Potter Creek, de allí a Canyon Lake en el segmento 1805 de la cuenca del río Guadalupe.

La instalación de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 750 pies al sureste de la intersección de FM484 y Rocky Ranch Rd cerca de la ciudad de Fischer en el condado de Comal, Texas 78133. La solicitud de permiso estará disponible para ver y copiar en la Biblioteca Pública de Mammen, 131 Bulverde Crossing. , Bulverde en el condado de Comal, Texas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará cloro o desinfección UV.

j&a WASTEWATER

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

**PROPOSED PERMIT NO. WQ0016660001**

**APPLICATION.** Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016660001 (EPA I.D. No. TX0146919) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day. The domestic wastewater treatment facility will be located approximately 750 feet southeast of the intersection of Rocky Ranch Road and Farm-to-Market Road 484, near Fischer, in Comal County, Texas 78133. The discharge route will be from the plant site to an unnamed tributary, thence to Potter Creek, thence to Canyon Lake. TCEQ received this application on November 6, 2024. The permit application will be available for viewing and copying at Mammen Family Public Library, 131 Bulverde Crossing, Bulverde, in Comal County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.260277,29.948611&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.**

**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 Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff and Jeanette R. Morris at the address stated above or by calling Ms. Janela Revilla, JA Wastewater, LLC, at 737-864-3476.

Issuance Date: December 4, 2024

# Comisión de Calidad Ambiental del Estado de Texas

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

**PERMISO PROPUESTO NO. WQ0016660001**

**SOLICITUD.** Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, y Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016660001 (EPA I.D. No. TX 0146919) 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 600,000 galones por día. La planta estará ubicada aproximadamente 750 pies al sureste de la intersección de Rocky Ranch Road y Farm-to-Market Road 484, cerca de Fischer, en el condado de Comal, Texas 78133. La ruta de descarga estará del sitio de la planta a un afluente sin nombre, de allí a Potter Creek, desde allí hasta Canyon Lake. La TCEQ recibió esta solicitud el 6 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Mammen Family Public Library, 131 Bulverde Crossing, Bulverde, en el condado de Comal, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.260277,29.948611&level=18

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

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

**COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud.** El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

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

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

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

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

**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.

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

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

También se puede obtener información adicional del Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, y Jeanette R. Morris a la dirección indicada arriba o llamando a Janela Revilla, JA Wastewater, LLC al 737-864-3476.

Fecha de emisión el 4 de diciembre de 2024

# Texas Commission on Environmental Quality

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

**NEW**

**PERMIT NO. WQ0016660001**

**APPLICATION AND PRELIMINARY DECISION.** Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, have applied to the Texas Commission on Environmental Quality (TCEQ) for new Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016660001, to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 600,000 gallons per day. TCEQ received this application on November 6, 2024.

The facility will be located approximately 750 feet southeast of the intersection of Rocky Ranch Road and Farm-to-Market Road 484, in Comal County, Texas 78133. The treated effluent will be discharged to an unnamed tributary, thence to Potter Creek, thence to Canyon Lake in Segment No. 1805 of the Guadalupe River Basin. The unclassified receiving water use is minimal aquatic life use for the unnamed tributary and Potter Creek. The designated uses for Segment No. 1805 are primary contact recreation, public water supply, aquifer protection, and exceptional aquatic life use. In accordance with 30 Texas Administrative Code §307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards (June 2010)*, an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Canyon Lake, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.260277,29.948611&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 Mammen Family Public Library, 131 Bulverde Crossing, Bulverde, in Comal County, Texas. The application is also available 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.**

**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 Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris at the address stated above or by calling Ms. Janela Revilla, JA Wastewater, LLC, at 737-864-3476.

Issuance Date: November 13, 2025

**Comisión De Calidad Ambiental Del Estado De Texas**

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

**NUEVO**

**PERMISO NO. WQ0016660001**

**SOLICITUD Y DECISIÓN PRELIMINAR.** Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por un nuevo para autorizar la descarga de aguas residuales domésticas tratadas a un caudal medio diario que no exceda los 600.000 galones por día. La TCEQ recibió esta solicitud el 6 de Noviembre de 2024.

La planta está ubicada en aproximadamente a 750 pies al sureste de la intersección de Rocky Ranch Road y Farm-to-Market Road 484, en el condado de Comal, Texas 78133. El efluente tratado es descargado a un afluente sin nombre, de allí a Potter Creek, de allí a Canyon Lake en el Segmento No. 1805 de la Cuenca del Río Guadalupe. Los usos no clasificados de las aguas receptoras son limitados usos de la vida acuática para afluente sin nombre y Potter Creek. Los usos designados para el Segmento No. 1805 son los usos designados para el Segmento No. 1805 son: contacto primario, recreación, abastecimiento público de agua, protección de acuíferos y uso excepcional para la vida acuática. De acuerdo con la 30 TAC §307.5 y los procedimientos de implementación de la TCEQ (Enero 2010) para las Normas de Calidad de Aguas Superficiales en Texas, fue realizada una revisión de la antidegradación de las aguas recibidas. Una revisión de antidegradación del Nivel 1 ha determinado preliminarmente que los usos de la calidad del agua existente no serán perjudicados por la acción de este permiso. Se mantendrá un criterio narrativo y numérico para proteger los usos existentes. Una revisión del Nivel 2 ha determinado preliminarmente que no se espera ninguna degradación significativa en Lago Canyon el cual se ha identificado que tiene altos usos en la vida acuática. Los usos existentes serán mantenidos y protegidos. La determinación preliminar puede ser reexaminada y puede ser modificada, si se recibe alguna información nueva.Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.260277,29.948611&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Biblioteca Pública Familiar Mammen, 131 Bulverde Crossing, Bulverde, en el condado de Comal, Texas. La solicitud está disponible para su consulta y reproducción a través del siguiente enlace: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

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

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

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

**Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a https://www.tceq.texas.gov/goto/comment dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.**
**INFORMACIÓN DISPONIBLE EN LÍNEA.** Para obtener detalles sobre el estado de la solicitud, visite la Base de Datos Integrada de los Comisionados en https://www.tceq.texas.gov/goto/cid/. Busque en la base de datos utilizando el número de permiso para esta solicitud, que se proporciona en la parte superior de este aviso.
**CONTACTOS E INFORMACIÓN DE LA AGENCIA.** Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www.tceq.texas.gov/goto/comment, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a la TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en https://www.tceq.texas.gov/agency/decisions/participation/permitting-participation. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del ennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris a la dirección indicada arriba o llamando a Ms. Janela Revilla, JA Wastewater, LLC, al 737-864-3476.

Fecha de emisión 13 de noviembre de 2025

# Broken Cedar Ranch
# Wastewater Treatment Facility

## TCEQ Application for New TPDES Permit

**Submitted to**
**Texas Commission on Environmental Quality**

**November 2024**

j & a WASTEWATER

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

**Complete and submit this checklist with the application.**

APPLICANT NAME: Lennar Homes of Texas Land and Construction, LTD and Morris, Jeanette R & Bobbie J Neff

PERMIT NUMBER (If new, leave blank): WQ00

**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:

Check/Money Order Amount:

Name Printed on Check:

EPAY Voucher Number:

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

**Your transaction is complete. Thank you for using TCEQ ePay.**

**Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.**

**Transaction Information**

**Trace Number:** 582EA000631344
**Date:** 10/25/2024 03:19 PM
**Payment Method:** CC - Authorization 0000099215
**ePay Actor:** RICHARD CLINTON MOTT
**Actor Email:** richard.mott@lennar.com
**IP:** 204.109.18.254
**TCEQ Amount:** $1,650.00
**Texas.gov Price:** $1,687.38*

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

**Payment Contact Information**

**Name:** RICHARD MOTT
**Company:** LENNAR HOMES OF TEXAS LAND AND CONS
**Address:** 5505 WATERFORD DISTRICT DR, MIAMI, TX 33126
**Phone:** 210-889-5516

**Cart Items**

Click on the voucher number to see the voucher details.

| Voucher | Fee Description | AR Number | Amount |
|---|---|---|---|
| 727729 | WW PERMIT - FACILITY WITH FLOW >= .50 & < 1.0 MGD - NEW AND MAJOR AMENDMENTS | | $1,600.00 |
| 727730 | 30 TAC 305.53B WQ NOTIFICATION FEE | | $50.00 |
| | | **TCEQ Amount:** | $1,650.00 |

ePay Again Exit ePay

**Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.**



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

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

**d.** Check the box next to the appropriate application type

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

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

**f.** **For existing permits**:

Permit Number: WQ00 N/A

EPA I.D. (TPDES only): TX N/A

Expiration Date: N/A

## 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?

Lennar Homes of Texas Land and Construction, LTD

*(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: 602412207

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: Mott, Richard

Title: VP of Land Development Credential:

**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?

Morris, Jeanette R & Bobbie J Neff

*(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: None

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: Last Name, First Name: Morris, Jeanette R & Bobbie J Neff

Title: Landowners Credential:

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

**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. Core Data Form (Lennar Homes), Core Data Form (Morris), Core Data Form (Neff)

## 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: Miller, Jamie

Title: President Credential: P.E.

Organization Name: JA Wastewater, LLC

Mailing Address: 5765 Fig Way City, State, Zip Code: Arvada, CO 80002

Phone No.: (970) 443 9096 E-mail Address: jmiller@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

**B.** Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 5765 Fig Way City, State, Zip Code: Arvada, CO 80002

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

## Section 5. Permit Contact Information (Instructions Page 27)

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

**A.** Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: jrevilla@jawastewater.com

Organization Name: JA Wastewater, LLC

Mailing Address: 5765 Fig Way City, State, Zip Code: Arvada, CO 80002

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

**B.** Prefix: Mr. Last Name, First Name: Mott, Richard

Title: VP of Land Development Credential:

Organization Name: Lennar Homes of Texas Land and Construction, LTD

Mailing Address: 5505 Waterford District Dr City, State, Zip Code: Miami, FL 33126-2029

Phone No.: (210) 889-5516 E-mail Address: richard.mott@lennar.com

## Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Mott, Richard

Title: VP of Land Development Credential:

Organization Name: Lennar Homes of Texas Land and Construction, LTD

Mailing Address: 5505 Waterford District Dr City, State, Zip Code: Miami, FL 33126-2029

Phone No.: (210) 889-5516 E-mail Address: richard.mott@lennar.com

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

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

Prefix: Mr. Last Name, First Name: Mott, Richard

Title: VP of Land Development Credential:

Organization Name: Lennar Homes of Texas Land and Construction, LTD

Mailing Address: 5505 Waterford District Dr City, State, Zip Code: Miami, FL 33126-2029

Phone No.: (210) 889-5516 E-mail Address: richard.mott@lennar.com

## Section 8. Public Notice Information (Instructions Page 27)

**A. Individual Publishing the Notices**

Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 5765 Fig Way City, State, Zip Code: Arvada, CO 80002

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.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: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 5765 Fig Way City, State, Zip Code: Arvada, CO 80002

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

**D. Public Viewing Information**

*If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.*

Public building name: Mammen Public Library

Location within the building: Circulation Desk

Physical Address of Building: 131 Bulverde Crossing

City: Bulverde County: Comal

Contact (Last Name, First Name): Bowman, Kristin

Phone No.: (830) 438-5864 Ext.: None

**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:** Plain Language Summary

**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:** Public Involvement Plan Form

## 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** N/A

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):

Broken Cedar Ranch WWTF

**C.** Owner of treatment facility: Lennar Homes of Texas Land and Construction, LTD

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

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

Prefix: Last Name, First Name: Morris, Jeanette R & Bobbie J Neff

Title: Landowners Credential:

Organization Name:

Mailing Address: 3500 N 29th St City, State, Zip Code: Waco, TX 76708

Phone No.: E-mail Address:

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

**Attachment:** N/A

**E.** Owner of effluent disposal site:

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

**Attachment:** N/A

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

Prefix: N/A Last Name, First Name: N/A

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: N/A City, State, Zip Code: N/A

Phone No.: N/A E-mail Address: N/A

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

**Attachment:** N/A

## Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☒ No

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

The WWTF will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near the city of Fischer in Comal County, Texas 78133.

**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:

The discharge point flows into an unnamed intermittent stream, thence to Potter Creek, thence to Canyon Lake in Segment 1805 of the Guadalupe River Basin.

City nearest the outfall(s): Fischer

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

**C.** Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

**Attachment:** N/A

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

## Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

N/A

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

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

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

N/A

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

## Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

**D.** Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

**E.** Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A

Amount past due: N/A

## Section 13. Attachments (Instructions Page 33)

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

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

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

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

☒ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: N/A

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number:

Applicant: Lennar Homes of Texas Land and Construction, LTD

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): Richard Mott

Signatory title: VP of Land Development

Signature: _____ Date: 10/8/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Richard Mott

on this 8th day of Oct, 2024.

My commission expires on the 24 day of June, 2028.

Tristan Cortez

Notary Public

TRISTAN CORTEZ
Notary Public, State of Texas
Comm. Expires 07-24-2028
Notary ID 135007178

[SEAL]

Bexar

County, Texas

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number:

Applicant: Neff, Bobbie J

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): Bobbie J Neff

Signatory title: Landowner

Signature: Bobbie J. Neff Date: 10-22-24

(Use blue ink)

Subscribed and Sworn to before me by the said Bobbie J. Neff

on this 22nd day of October, 20 24.

My commission expires on the 5th day of June, 20 27.

Notary Public

*[SEAL]*

Harris

County, Texas

DAMIAN LOPEZ
Notary Public, State of Texas
Commission Expires 06-05-2027
Notary ID 13201717-3

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number:

Applicant: Jeanette R Morris

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): Jeanette R Morris

Signatory title: Landowner

Signature: Jeanette R. Morris Date: 10/22/2024
(Use blue ink)

Subscribed and Sworn to before me by the said Jeanette R. Morris
on this 22nd day of October, 20 24.
My commission expires on the 5th day of June, 20 27.

Notary Public

*[SEAL]*

Harris
County, Texas

DAMIAN LOPEZ
Notary Public, State of Texas
Commission Expires 06-05-2027
Notary ID 13201717-3

# 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: Comal County Appraisal District Map

**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):

| |
|---|
| N/A |

## 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:** SPIF Map

# 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: Lennar Homes of Texas Land and Construction, LTD

   Permit No. WQ00 EPA ID No. TX

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

   The WWTF will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near the city of Fischer in Comal County, Texas 78133.

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

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

First and Last Name: Richard Mott

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

Title: VP of Land Development

Mailing Address: 5505 Waterford District Dr

City, State, Zip Code: Miami, FL 33126

Phone No.: (210) 889-5516 Ext.: None Fax No.: None

E-mail Address: richard.mott@lennar.com

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

   Morris, Jeanette R & Bobbie J Neff

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.

   The discharge point flows into an unnamed intermittent stream, thence to Potter Creek, thence to Canyon Lake in Segment 1805 of the Guadalupe 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):

   N/A

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

   Area is current undeveloped land.

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

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

   N/A

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

   Area is being developed by Lennar Homes of Texas Land and Construction, LTD

**English Plain Language Summary**

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

Lennar Homes of Texas Land and Construction, LTD and Morris, Jeanette R & Bobbie J Neff have applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day via a discharge point that flows into an unnamed intermittent stream, thence to Potter Creek, thence to Canyon Lake in Segment 1805 of the Guadalupe River Basin.

The domestic wastewater treatment facility will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near the city of Fischer in Comal County, Texas 78133 The permit application will be available for viewing and copying at Mammen Public Library, 131 Bulverde Crossing, Bulverde in Comal County, Texas.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize chlorine or UV disinfection.

j&a WASTEWATER

**Spanish Plain Language Summary**

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

Lennar Homes of Texas Land and Construction, LTD y Morris, Jeanette R & Bobbie J Neff han solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) un nuevo permiso para el Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) para autorizar la eliminación de aguas residuales tratadas. a un volumen que no debe exceder un flujo promedio diario de 600,000 galones por día a través de un punto de descarga que desemboca en un arroyo intermitente sin nombre, de allí a Potter Creek, de allí a Canyon Lake en el segmento 1805 de la cuenca del río Guadalupe.

La instalación de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 750 pies al sureste de la intersección de FM484 y Rocky Ranch Rd cerca de la ciudad de Fischer en el condado de Comal, Texas 78133. La solicitud de permiso estará disponible para ver y copiar en la Biblioteca Pública de Mammen, 131 Bulverde Crossing. , Bulverde en el condado de Comal, Texas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará cloro o desinfección UV.

| 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 602412207** | | **RN None** |

## SECTION II: Customer Information

| **4. General Customer Information** | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) | 9/18/2024 |
|---|---|---|
| ☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership<br>☐ 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:* | |
| Lennar Homes of Texas Land and Construction, LTD | | |

| **7. TX SOS/CPA Filing Number** | **8. TX State Tax ID** (11 digits) | **9. Federal Tax ID** (9 digits) | **10. DUNS Number** (*if applicable*) |
|---|---|---|---|
| 0011452910 | 17527920189 | | |

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

| **12. Number of Employees** | **13. Independently Owned and Operated?** |
|---|---|
| ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☒ 501 and higher | ☒ **Yes** ☐ **No** |

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

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

| **15. Mailing Address:** | 5505 Waterford District Dr | | | | | | |
|---|---|---|---|---|---|---|---|
| | **City** | Miami | **State** | FL | **ZIP** | 33126 | **ZIP + 4** | 2029 |

| **16. Country Mailing Information** (*if outside USA*) | **17. E-Mail Address** (*if applicable*) |
|---|---|
| N/A | richard.mott@lennar.com |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 210 ) 889-5516 | None | ( ) - |

# 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.)*

Broken Cedar Ranch WWTF

| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | Fischer | **State** | TX | **ZIP** | 78133 | **ZIP + 4** | |
| **24. County** | Comal | | | | | | | |

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

| **25. Description to Physical Location:** | The WWTF will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near Fischer in Comal County, Texas 78133. | |
|---|---|---|
| **26. Nearest City** | **State** | **Nearest ZIP Code** |
| FIscher | TX | 78133 |

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

| **27. Latitude (N) In Decimal:** | 29.9485N | | **28. Longitude (W) In Decimal:** | 98.2603W | |
|---|---|---|---|---|---|
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 29 | 56 | 54.60 | -98 | 15 | 37.08 |

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

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

Wastewater Treatment

| **34. Mailing Address:** | **5505 Waterford District Dr** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | **Miami** | **State** | **FL** | **ZIP** | **33126** | **ZIP + 4** | **2029** |
| **35. E-Mail Address:** | **richard.mott@lennar.com** | | | | | | | |

| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
|---|---|---|
| **( 210 ) 889-5516** | **None** | **( ) -** |

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

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

## SECTION IV: Preparer Information

| | | | |
|---|---|---|---|
| **40. Name:** | Janela Revilla | **41. Title:** | Project Engineer |
| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
| ( 737 ) 864-3476 | N/A | ( N/A ) - | jrevilla@jawastewater.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:** | Lennar Homes of Texas Land and Construction, LTD | **Job Title:** | VP of Land Development |
| **Name** *(In Print):* | Richard Mott | **Phone:** | ( 210 ) 889- 5516 |
| **Signature:** | | **Date:** | 10/24/2024 |

| 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 None** | | **RN None** |

## SECTION II: Customer Information

| **4. General Customer Information** | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) | 9/18/2024 |
|---|---|---|
| ☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership<br>☐ 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:* | |
| Neff, Bobbie J | | |

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

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

| **12. Number of Employees** | **13. Independently Owned and Operated?** |
|---|---|
| ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher | ☒ **Yes** ☐ **No** |

| **14. Customer Role** (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following* | | | |
|---|---|---|---|
| ☐ Owner | ☐ Operator | ☐ Owner & Operator | ☐ Other: |
| ☐ Occupational Licensee | ☐ Responsible Party | ☐ VCP/BSA Applicant | |

| **15. Mailing Address:** | 3500 N 29th St | | | | | | |
|---|---|---|---|---|---|---|---|
| | **City** | Waco | **State** | TX | **ZIP** | 76708 | **ZIP + 4** |

| **16. Country Mailing Information** (*if outside USA*) | **17. E-Mail Address** (*if applicable*) |
|---|---|
| N/A | bobbieneff1116@gmail.com |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 832 ) 527-7327 | None | ( ) - |

# 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.)*

Broken Cedar Ranch WWTF

| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | Fischer | **State** | TX | **ZIP** | 78133 | **ZIP + 4** | |
| **24. County** | | | | | | | | |

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

| **25. Description to Physical Location:** | The WWTF will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near Fischer in Comal County, Texas 78133. | |
|---|---|---|
| **26. Nearest City** | **State** | **Nearest ZIP Code** |
| Fischer | TX | 78133 |

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

| **27. Latitude (N) In Decimal:** | 29.9485N | | **28. Longitude (W) In Decimal:** | 98.2603W | |
|---|---|---|---|---|---|
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 29 | 56 | 56.60 | -98 | 15 | 37.08 |

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

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

Wastewater Treatment

| **34. Mailing Address:** | **3500 N 29th St** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | **Waco** | **State** | **TX** | **ZIP** | **76708** | **ZIP + 4** | |
| **35. E-Mail Address:** | **bobbieneff1116@gmail.com** | | | | | | | |

| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
|---|---|---|
| **( 832 ) 527-7327** | **None** | **( ) -** |

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

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

## SECTION IV: Preparer Information

| | | | |
|---|---|---|---|
| **40. Name:** | Janela Revilla | **41. Title:** | Project Engineer |

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| ( 737 ) 864-3476 | None | ( ) - | jrevilla@jawastewater.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:** | N/A | **Job Title:** | N/A |
| **Name** *(In Print):* | Bobbie J Neff | **Phone:** | 832-521-7327 |
| **Signature:** | Bobbie J. Neff | **Date:** | 10-22-24 |

| 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 None** | | **RN None** |

## SECTION II: Customer Information

| **4. General Customer Information** | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) | 9/18/2024 |
|---|---|---|
| ☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership<br>☐ 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:* | |
| Morris, Jeanette R | | |

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

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

| **12. Number of Employees** | **13. Independently Owned and Operated?** |
|---|---|
| ☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher | ☒ **Yes** ☐ **No** |

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

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

| **15. Mailing Address:** | 3500 N 29th St | | | | | | |
|---|---|---|---|---|---|---|---|
| | **City** | Waco | **State** | TX | **ZIP** | 76708 | **ZIP + 4** |

| **16. Country Mailing Information** (*if outside USA*) | **17. E-Mail Address** (*if applicable*) |
|---|---|
| N/A | jeanette.morris@att.net |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 361 ) 463-1568 | None | ( ) - |

# 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.)*

Broken Cedar Ranch WWTF

| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | Fischer | **State** | TX | **ZIP** | 78133 | **ZIP + 4** | |
| **24. County** | | | | | | | | |

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

| **25. Description to Physical Location:** | The WWTF will be located approximately 750 feet southeast of the intersection of FM484 and Rocky Ranch Rd near Fischer in Comal County, Texas 78133. | |
|---|---|---|
| **26. Nearest City** | **State** | **Nearest ZIP Code** |
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|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | **City** | **Waco** | **State** | **TX** | **ZIP** | **76708** | **ZIP + 4** | |
| **35. E-Mail Address:** | **jeanette.morris@att.net** | | | | | | | |

| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** *(if applicable)* |
|---|---|---|
| **( 361 ) 463-1568** | **None** | **( ) -** |

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

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

## SECTION IV: Preparer Information

| | | | |
|---|---|---|---|
| **40. Name:** | Janela Revilla | **41. Title:** | Project Engineer |

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| ( 737 ) 864-3476 | None | ( ) - | jrevilla@jawastewater.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:** | N/A | **Job Title:** | N/A |
| **Name** *(In Print):* | Jeanette R Morris | **Phone:** | (361) 463-1568 |
| **Signature:** | Jeanette R. Morris | **Date:** | 10/22/2024 |

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:

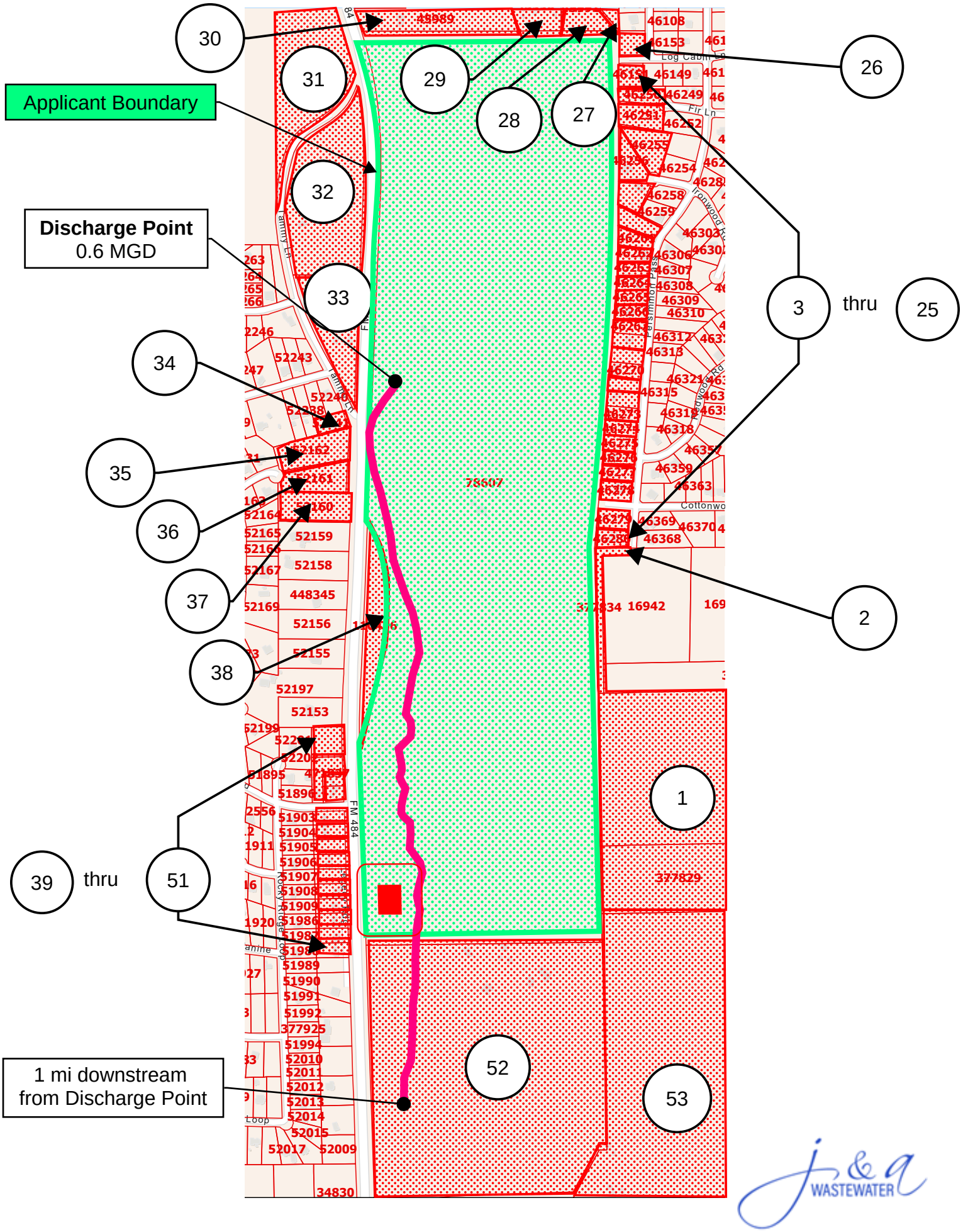
- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**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.

This project is not considered to have significant public interest.

# Broken Cedar Ranch WWTF - Affected Landowner Map



# Broken Cedar Ranch WWTF - Affected Landowner List

| | Address Source: | https://gis.bisclient.com/comalcad/ | 11-Sep-24 |
|---|---|---|---|
| **Map Label** | **Property ID Number** | **Owner Name** | **Mailing Address** |
| 1 | 377834, 74615, 377829 | MOORE JOHN C & PATRICIA G | PO BOX 361 BLANCO TX 78606 |
| 2 | 46280 | MILLER MARY G | 1430 PERSIMMON PASS FISCHER TX 78649 |
| 3 | 46279 | GENTRY JENNIFER | 1420 PERSIMMON PASS FISCHER TX 78648 |
| 4 | 46278 | HUTCHINSON HARRY T JR & TWILA R | 1350 PERSIMMON PASS FISCHER TX 78647 |
| 5 | 46277 | RODRIGUEZ PETRA | 283 FIELDWOOD DR UNIT C BUDA TX 78610 |
| 6 | 46276 | RUCKMAN LAWRENCE J | PO BOX 134 WIMBERLEY TX 78676 |
| 7 | 46275 | OLVERA MOSES H JR & DANA M MARLER | 1270 PERSIMMON PASS FISCHER TX 78644 |
| 8 | 46274 | ROUBERT ENRIQUE V | 1250 PERSIMMON PASS FISCHER TX 78643 |
| 9 | 46272, 46273 | MINER JEFFREY E | 1210 PERSIMMON PASS FISCHER TX 78642 |
| 10 | 46271 | BATEY RANDY C & LINDA M | 189 CALM WATER CANYON LAKE TX 78133 |
| 11 | 46269, 46270 | YANDELL CLIFFORD J & CRYSTAL | 1170 PERSIMMON PASS FISCHER TX 78640 |
| 12 | 46267, 46268 | DEADY CLARK & AMANDA | 1130 PERSIMMON PASS FISCHER TX 78639 |
| 13 | 46266 | TROUT JAMES W II & CYNTHIA | 1090 PERSIMMON PASS FISCHER TX 78638 |
| 14 | 46265 | ORTIZ JESSE & JUDY | 1043 MALTESE GDN SAN ANTONIO TX 78260 |
| 15 | 46264 | SAUCEDA KEVIN R & BRENDA J | 1050 PERSIMMON PASS FISCHER TX 78636 |
| 16 | 46263 | IBARRA J A & MARIA N | 10021 APACHE VLG FISCHER TX 78635 |
| 17 | 46262 | ALEXANDER SHANNON M | 1010 PERSIMMON PASS FISCHER TX 78634 |
| 18 | 46260 | LE ANN G | 801 MORNINGSIDE DR SAN ANTONIO TX 78209 |
| 19 | 46257 | MOSELEY BEVERLY | 1220 IRON WOOD RD FISCHER TX 78631 |
| 20 | 46256 | PATTERSON JAMES III & HEATHER L BURCH-PATTERSON | 1221 IRONWOOD RD FISCHER TX 78630 |
| 21 | 46255 | RAMEY MILENA S & THOMAS W III | 1243 IRON WOOD RD FISCHER TX 78629 |
| 22 | 46251 | BJORKLUND KARYN | 4830 LANETT DR PENSACOLA FL 32526 |
| 23 | 46250 | HOLDEN-GARCIA AFTEN S & JAVIER G GARCIA | 1231 FIR LN FISCHER TX 78627 |
| 24 | 46151 | SKINNER TERRY & CHRISTINE | 1176 LOG CABIN LN FISCHER TX 78626 |
| 25 | 46152 | MARPLE KENNETH | 810 POSSUM TREE FISCHER TX 78625 |
| 26 | 46107 | MARPLE KEITH A & TERESA C | 810 POSSUM TREE FISCHER TX 78624 |
| 27 | 45992 | BURDGE FAMILY RVCBL TRST | 1645 AGARITA DR FISCHER TX 78623 |
| 28 | 45991 | EMBODY JANE | PO BOX 173FISCHER TX 78623 |
| 29 | 45990 | HUGHES KIMBERLY | 1670 AGARITA DR FISCHER TX 78623 |
| 30 | 45989 | EMBODY JOHN W & BRENDA | PO BOX 111 FISCHER TX 78623 |
| 31 | 78601 | ENGELHARDT JOHN H FAM LTD PRTNRSHP | PO BOX 187 FISCHER TX 78623 |
| 32 | 78679 | TAMEZ GENARD | 2751 FM 484 CANYON LAKE TX 78133 |
| 33 | 78707 | TAMEZ MARIA | 2681 FM 484 CANYON LAKE TX 78133 |
| 34 | 582241 | YIR PERVIN & UMIT YIR | 4515 SHAVANO COURT SAN ANTONIO TX 78230 |
| 35 | 52162 | CROW THOMAS F & WANDA K | 59 N MESQUITE DR VICTORIA TX 77905 |
| 36 | 72161 | DELLINGER DANIEL A & AMY E | 511 LASSO LOOP CANYON LAKE TX 78133 |
| 37 | 52160 | FRANK JASON M | 2405 FM 484 CANYON LAKE TX 78133 |
| 38 | 110436 | ROCKY CREEK RANCH INC | PO BOX 2202 CANYON LAKE TX 78133 |
| 39 | 52152 | LAMBERT HEATHER D & RYAN D | 2531 ROBINHOOD DRIVE CANYON LAKE TX 78133 |
| 40 | 471837 | SOUTHALL JANET M & BRIAN D | 454 HWY 751 CHURCH POINT LA 70525 |
| 41 | 51898, 52151 | MURPHY HOME BUYERS LLC | 11515 IMPRESSIVE WAY SAN ANTONIO TX 78254 |
| 42 | 51899 | CORTEZ ROBERTO & ERLINDA | 135 ROCKY RNCH CANYON LAKE TX 78133 |
| 43 | 51900 | BRYNER LIVELY | 245 LEGACY RDG CANYON LAKE TX 78133 |
| 44 | 51901 | MALDONADO GUSTAVO & EVELYN V | 513 BARRETT PL SAN ANTONIO TX 78255 |
| 45 | 51902 | BURKHART ERIC | 237 LEGACY RDG CANYON LAKE TX 78133 |
| 46 | 51995 | FLORES MARIA O A & MARK A | 530 TIDEWIND ST SAN ANTONIO TX 78221 |
| 47 | 51996 | HALL TERRY T & KRISTY L | 229 LEGACY RDG CANYON LAKE TX 78133 |
| 48 | 51997 | BRNICKY THOMAS & LELA | 225 LEGACY RIDGE CANYON LAKE TX 78133 |
| 49 | 51998 | STAYTON JODI L & DARREN R | 221 LEGACY RDG CANYON LAKE TX 78133 |
| 50 | 51999 | LANGLEY JANIE D | 217 LEGCY RIDGE CANYON LAKE TX 78133 |
| 51 | 110436 | ROCKY CREEK RANCH INC | PO BOX 2202 CANYON LAKE TX 78133 |
| 52 | 78710 | MACHA FAMILY TRUT 06-20-2024 | TR 1610 FM 484 CANYON LAKE TX 78133 |
| 53 | 74616 | ARMSTRONG CYNTHIA ANN | 21660 FM 306 CANYON LAKE TX 78134 |

J&A WASTEWATER

MOORE JOHN C & PATRICIA G
PO BOX 361 BLANCO
BLANCO TX 78606

MILLER MARY G
1430 PERSIMMON PASS
FISCHER TX 78649

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SAN ANTONIO TX 78255

BURKHART ERIC
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CANYON LAKE TX 78133

FLORES MARIA O A & MARK A
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SAN ANTONIO TX 78221

HALL TERRY T & KRISTY L
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CANYON LAKE TX 78133

BRNICKY THOMAS & LELA
225 LEGACY RIDGE
CANYON LAKE TX 78133

STAYTON JODI L & DARREN R
221 LEGACY RDG
CANYON LAKE TX 78133

LANGLEY JANIE D
217 LEGCY RIDGE
CANYON LAKE TX 78133

ROCKY CREEK RANCH INC
PO BOX 2202
CANYON LAKE TX 78133

MACHA FAMILY TRUT 06-20-2024
TR 1610 FM 484
CANYON LAKE TX 78133

ARMSTRONG CYNTHIA ANN
21660 FM 306
CANYON LAKE TX 78134

# STATE OF TEXAS PLUGGING REPORT for Tracking #222364

| | | | |
|---|---|---|---|
| Owner: | **Foxtrot Real Estate Holdings,LLC c/o Nicholas Seaver** | Owner Well #: | **No Data** |
| Address: | **22414 FM306<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **22414 FM306<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 24.5" N** |
| Well County: | **Comal** | Longitude: | **098° 15' 56.7" W** |
| | | Elevation: | **1055** |

Well Type: **Domestic**

*Drilling Information*

Company: **Associated Drilling Inc** Date Drilled: **11/15/2017**

Driller: **James Benoit** License Number: **4064**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **6.25** | **0** | **410** |

*Plugging Information*

Date Plugged: **8/26/2022** Plugger: **James M Sotack**

Plug Method: **gravel 410ft-310ft,pump w/trimie 310ft to 5ft**

Casing Left in Well:

| *Dia (in.)* | *Top (ft.)* | *Bottom (ft.)* |
|---|---|---|
| **4.5** | **5** | **410** |

Plug(s) Placed in Well:

| *Top (ft.)* | *Bottom (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **5** | **310** | **Cement 25 Bags/Sacks** |
| **310** | **410** | **5/8 pea gravel 0.5 Yards** |

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Sotack's Done Well Service,LLC**

**7113 San Pedro Dr #389**
**San Antonio, TX 78216**

Driller Name: **James M Sotack** License Number: **4988**

Comments: **CTGCD Permit# CTGCD-P2022.14**

# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 68-06-602

GWDB Reports and Downloads

## Well Basic Details

Scanned Documents

| | |
|---|---|
| **State Well Number** | 6806602 |
| **County** | Comal |
| **River Basin** | Guadalupe |
| **Groundwater Management Area** | 9 |
| **Regional Water Planning Area** | L - South Central Texas |
| **Groundwater Conservation District** | Comal Trinity GCD |
| **Latitude** (decimal degrees) | 29.954723 |
| **Latitude** (degrees minutes seconds) | 29° 57' 17" N |
| **Longitude** (decimal degrees) | -98.265556 |
| **Longitude** (degrees minutes seconds) | 098° 15' 56" W |
| **Coordinate Source** | +/- 1 Second |
| **Aquifer Code** | 218GLRS - Glen Rose Limestone |
| **Aquifer** | Trinity |
| **Aquifer Pick Method** | |
| **Land Surface Elevation** (feet above sea level) | 1150 |
| **Land Surface Elevation Method** | Interpolated From Topo Map |
| **Well Depth** (feet below land surface) | 400 |
| **Well Depth Source** | Driller's Log |
| **Drilling Start Date** | |
| **Drilling End Date** | 5/0/1989 |
| **Drilling Method** | Air Rotary |
| **Borehole Completion** | Open Hole |

| | |
|---|---|
| **Well Type** | Withdrawal of Water |
| **Well Use** | Unused |
| **Water Level Observation** | Miscellaneous Measurements |
| **Water Quality Available** | No |
| **Pump** | Submersible |
| **Pump Depth** (feet below land surface) | |
| **Power Type** | Electric Motor |
| **Annular Seal Method** | |
| **Surface Completion** | |
| **Owner** | Rocky Creek Sub. |
| **Driller** | James Tucker Drilling Inc. |
| **Other Data Available** | Drillers Log |
| **Well Report Tracking Number** | |
| **Plugging Report Tracking Number** | |
| **U.S. Geological Survey Site Number** | |
| **Texas Commission on Environmental Quality Source Id** | G0460019X |
| **Groundwater Conservation District Well Number** | |
| **Owner Well Number** | |
| **Other Well Number** | |
| **Previous State Well Number** | |
| **Reporting Agency** | Groundwater Conservation District |
| **Created Date** | 6/8/2011 |
| **Last Update Date** | 7/22/2016 |

| | |
|---|---|
| **Remarks** | Estimated yield 40-50 GPM in 1989. Cemented from 0 to 228 feet. Rubber seal at 228 feet. Inactive public supply well. |

### *Casing*

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|---|---|---|---|---|---|---|
| 9 | Blank | Steel | | | 0 | 228 |
| 13 | Open Hole | | | | 228 | 230 |
| 8 | Open Hole | | | | 230 | 400 |

### *Well Tests - No Data*

### *Lithology - No Data*

### *Annular Seal Range - No Data*

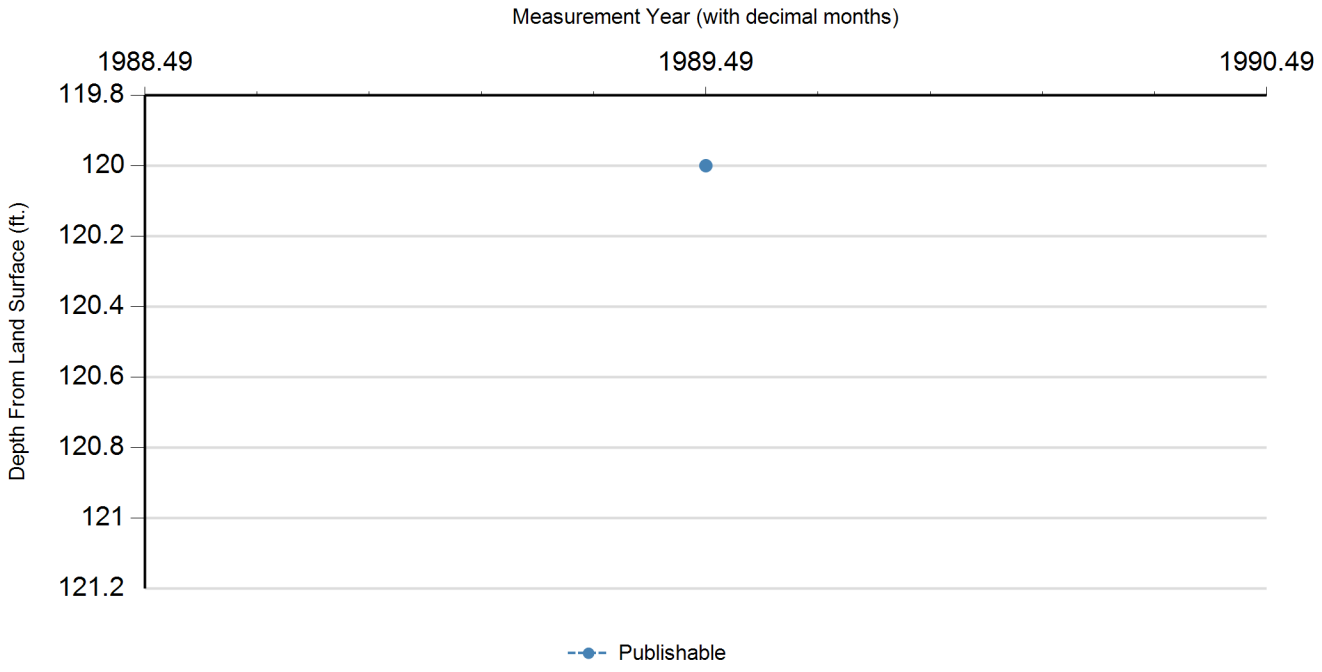
### *Borehole - No Data*

### *Plugged Back - No Data*

### *Filter Pack - No Data*

### *Packers - No Data*

## Water Level Measurements




| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in ( ) indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| P | 5/0/1989 | | 120 | | 1030 | 1 | Registered Water Well Driller | Unknown | | |

## Code Descriptions

| Status Code | Status Description |
|---|---|
| P | Publishable |

## Water Quality Analysis - No Data Available

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# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 68-06-607

GWDB Reports and Downloads

## Well Basic Details

Scanned Documents

| | |
|---|---|
| **State Well Number** | 6806607 |
| **County** | Comal |
| **River Basin** | Guadalupe |
| **Groundwater Management Area** | 9 |
| **Regional Water Planning Area** | L - South Central Texas |
| **Groundwater Conservation District** | Comal Trinity GCD |
| **Latitude** (decimal degrees) | 29.9502778 |
| **Latitude** (degrees minutes seconds) | 29° 57' 01" N |
| **Longitude** (decimal degrees) | -98.2688889 |
| **Longitude** (degrees minutes seconds) | 098° 16' 08" W |
| **Coordinate Source** | +/- 1 Second |
| **Aquifer Code** | |
| **Aquifer** | Unassigned |
| **Aquifer Pick Method** | |
| **Land Surface Elevation** (feet above sea level) | 1073 |
| **Land Surface Elevation Method** | Digital Elevation Model -DEM |
| **Well Depth** (feet below land surface) | |
| **Well Depth Source** | |
| **Drilling Start Date** | |
| **Drilling End Date** | |
| **Drilling Method** | |
| **Borehole Completion** | |

| | |
|---|---|
| **Well Type** | Spring |
| **Well Use** | |
| **Water Level Observation** | None |
| **Water Quality Available** | No |
| **Pump** | |
| **Pump Depth** (feet below land surface) | |
| **Power Type** | |
| **Annular Seal Method** | |
| **Surface Completion** | |
| **Owner** | TRUER OTTO |
| **Driller** | |
| **Other Data Available** | |
| **Well Report Tracking Number** | |
| **Plugging Report Tracking Number** | |
| **U.S. Geological Survey Site Number** | 295704098160801 |
| **Texas Commission on Environmental Quality Source Id** | |
| **Groundwater Conservation District Well Number** | |
| **Owner Well Number** | |
| **Other Well Number** | |
| **Previous State Well Number** | |
| **Reporting Agency** | U.S. Geological Survey |
| **Created Date** | 11/6/2003 |
| **Last Update Date** | 1/4/2022 |

| | |
|---|---|
| **Remarks** | |

***Casing - No Data***

***Well Tests - No Data***

***Lithology - No Data***

***Annular Seal Range - No Data***

***Borehole - No Data***

***Plugged Back - No Data***

***Filter Pack - No Data***

***Packers - No Data***

## Water Level Measurements

No Data Available

## Water Quality Analysis - No Data Available

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# Texas Water Development Board (TWDB)
# Groundwater Database (GWDB)
# Well Information Report for State Well Number 68-06-608

GWDB Reports and Downloads

## Well Basic Details

Scanned Documents

| | |
|---|---|
| **State Well Number** | 6806608 |
| **County** | Comal |
| **River Basin** | Guadalupe |
| **Groundwater Management Area** | 9 |
| **Regional Water Planning Area** | L - South Central Texas |
| **Groundwater Conservation District** | Comal Trinity GCD |
| **Latitude** (decimal degrees) | 29.9419444 |
| **Latitude** (degrees minutes seconds) | 29° 56' 31" N |
| **Longitude** (decimal degrees) | -98.2602778 |
| **Longitude** (degrees minutes seconds) | 098° 15' 37" W |
| **Coordinate Source** | +/- 1 Second |
| **Aquifer Code** | |
| **Aquifer** | Unassigned |
| **Aquifer Pick Method** | |
| **Land Surface Elevation** (feet above sea level) | 1062 |
| **Land Surface Elevation Method** | Digital Elevation Model -DEM |
| **Well Depth** (feet below land surface) | |
| **Well Depth Source** | |
| **Drilling Start Date** | |
| **Drilling End Date** | |
| **Drilling Method** | |
| **Borehole Completion** | |

| | |
|---|---|
| **Well Type** | Spring |
| **Well Use** | |
| **Water Level Observation** | None |
| **Water Quality Available** | No |
| **Pump** | |
| **Pump Depth** (feet below land surface) | |
| **Power Type** | |
| **Annular Seal Method** | |
| **Surface Completion** | |
| **Owner** | HALL D |
| **Driller** | |
| **Other Data Available** | |
| **Well Report Tracking Number** | |
| **Plugging Report Tracking Number** | |
| **U.S. Geological Survey Site Number** | 295631098153701 |
| **Texas Commission on Environmental Quality Source Id** | |
| **Groundwater Conservation District Well Number** | |
| **Owner Well Number** | |
| **Other Well Number** | |
| **Previous State Well Number** | |
| **Reporting Agency** | U.S. Geological Survey |
| **Created Date** | 11/6/2003 |
| **Last Update Date** | 1/4/2022 |

| | |
|---|---|
| **Remarks** | |

***Casing - No Data***

***Well Tests - No Data***

***Lithology - No Data***

***Annular Seal Range - No Data***

***Borehole - No Data***

***Plugged Back - No Data***

***Filter Pack - No Data***

***Packers - No Data***

## Water Level Measurements

No Data Available

## Water Quality Analysis - No Data Available

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# STATE OF TEXAS WELL REPORT for Tracking #1162

| | | | |
|---|---|---|---|
| Owner: | **sam sample** | Owner Well #: | **No Data** |
| Address: | **p. o. box 680684<br>san antonio, TX 78268** | Grid #: | **68-06-6** |
| Well Location: | **hwy 307 & 484<br>canyon lake, TX 78133** | Latitude: | **29° 56' 17" N** |
| | | Longitude: | **098° 15' 47" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **4/7/2001** Drilling End Date: **4/12/2001**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8** | **0** | **160** |
| **6.5** | **160** | **320** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **160** | **30** |

Seal Method: **Pumped**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **none**

Surface Completion: **Surface Slab Installed**

Water Level: **105 ft.** below land surface on **2001-04-12** Measurement Method: **Unknown**

Packers: **( 1 ) rubber 160**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 25 GPM with 30 ft. drawdown after 1 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **290-315** | **sweet** |

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **s.w. owen drilling co**

**p.o. box 2150**
**san marcos, TX 78667**

Driller Name: **samuel weldon owen**

License Number: **1589**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-26 white lime** |
| **26- 105 M.gray lime** |
| **105-150 geay shale** |
| **150-280 gray lime** |
| **280-315 yellow broken lime** |
| **315-320 M. gray lime** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **5" new pvc 0-320 sch 40** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation**
**P.O. Box 12157**
**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #1166

| | | | |
|---|---|---|---|
| Owner: | **robert moore** | Owner Well #: | **No Data** |
| Address: | **1150 linda dr.<br>canyon lake, TX 78133** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 33" N** |
| Well Location: | **1150 linda dr.<br>canyon lake, TX 78133** | Longitude: | **098° 15' 01" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **5/23/2001** Drilling End Date: **5/23/2001**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8** | **0** | **120** |
| **7** | **120** | **400** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **220** | **42** |

Seal Method: **Pressure**

Sealed By: **s.w. owen**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **200 ft.** below land surface on **2001-05-23** Measurement Method: **Unknown**

Packers: **(1) rubber**

Type of Pump: **Submersible**

Well Tests: **Jetted** **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **360-395** | **sweet** |

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **s.w. owen drilling co.**

**p.o. box 2150**
**san marcos, TX 78667**

Driller Name: **samuel weldon owen**

License Number: **1589**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **1** | **top soil** |
| **1** | **205** | **gray lime** |
| **205** | **360** | **blue lime** |
| **360** | **400** | **brown lime** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4 1/2** | **new** | **pvc** | **0-220 sch 40** |

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**P.O. Box 12157**
**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #53369

| | | | |
|---|---|---|---|
| Owner: | **RANDY LEFLER** | Owner Well #: | **No Data** |
| Address: | **496 SOFT WIND<br>CANYON LAKE, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **496 SOFT WIND<br>CANYON LAKE, TX 78133** | Latitude: | **29° 56' 17" N** |
| | | Longitude: | **098° 16' 15" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **2/3/2005** Drilling End Date: **2/10/2005**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8.75** | **0** | **198** |
| **6** | **198** | **360** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **198** | **19** |

Seal Method: **GROUT**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **184 ft.** below land surface on **2005-02-10** Measurement Method: **Unknown**

Packers: **6" RUBBER 198**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.R.R. PUMP SALES & SERVICE, INC**

**1405 BLUE WATER DR.**
**CANYON LAKE, TX 78133**

Driller Name: **RONALD R. RUST** License Number: **2732**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) | To (ft) | Description |
|---|---|---|
| **0-1 SURFACE SOIL** | | |
| **1-20 MS & MH Y CLAY & Y R LAYERS** | | |
| **20-180 MH Y R** | | |
| **180- 220 MH G R** | | |
| **220- 300 MH LT G R** | | |
| **300- 330 MH Lt Gr R** | | |
| **330- 360 MH Lt Br W R** | | |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **6" NEW PLASTIC (2' ABOVE) SURF - 198 SCH 40** | | | |

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**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #73748

| | | | |
|---|---|---|---|
| Owner: | **W.N. GEORGE** | Owner Well #: | **No Data** |
| Address: | **P.O. BOX 114<br>FISCHER, TX 78623** | Grid #: | **68-06-6** |
| Well Location: | **LINDA DR<br>FISCHER, TX 78623** | Latitude: | **29° 56' 16" N** |
| | | Longitude: | **098° 15' 09" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **12/5/2005** Drilling End Date: **12/19/2005**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9.875** | **0** | **200** |
| **6** | **200** | **450** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **195** | **38 & SAND** |

Seal Method: **GROUT**

Sealed By: **R.R.R. PUMP SALES & SERVICE, INC**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **242 ft.** below land surface on **2005-12-19** Measurement Method: **Unknown**

Packers: **6" RUBBER 195'**
**6" RUBBER 200'**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 12-14 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.R.R. PUMP SALES & SERVICE, INC.**

**1405 BLUE WATER DR.**
**CANYON LAKE, TX 78133**

Driller Name: **RONALD R. RUST** License Number: **2732**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-1 SURFACE SOIL** |
| **1-10 MH & MS Y R & Y CLAY** |
| **10- 80 MH G R** |
| **80- 150 MH W G R** |
| **150-240 MH W Lt G R** |
| **240-350 MH W G R** |
| **350-360 MH Dr G R** |
| **360-380 MH W R** |
| **380-420 MH Br R** |
| **420-450 MH G R** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **6" NEW PLASTIC (2' ABOVE SURF) 0-200 SCH 40** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**Austin, TX 78711**
**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #73752

| | | | |
|---|---|---|---|
| Owner: | **W.N. GEORGE** | Owner Well #: | **No Data** |
| Address: | **114**<br>**FISCHER, TX 78623** | Grid #: | **68-06-6** |
| Well Location: | **12 LINDA DR.**<br>**FISCHER, TX 78623** | Latitude: | **29° 56' 19" N** |
| | | Longitude: | **098° 15' 10" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **12/19/2005** Drilling End Date: **12/29/2005**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9.875** | **0** | **223** |
| **6** | **223** | **480** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **220** | **39 & SAND** |

Seal Method: **GROUT**

Sealed By: **R.R.R. PUMP SALES & SERVICE, INC**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **230 ft.** below land surface on **2005-12-29** Measurement Method: **Unknown**

Packers: **6" RUBBER 220'**
**6" RUBBER 223'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 18 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.R.R. PUMP SALES & SERVICE, INC.**

**1405 BLUE WATER DR.**
**CANYON LAKE, TX 78133**

Driller Name: **RONALD R. RUST** License Number: **2732**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-1 SURFACE SOIL** |
| **1-20 MH & MS Y R & Y CLAY** |
| **20-35 MH G R** |
| **35 -110 MH G W R** |
| **110-280 MH Lt G R** |
| **280-340 MH G R** |
| **340-380 MH W Lt Br R** |
| **380-420 MH G R** |
| **420-480 MH Lt Gr G R** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **6" NEW PLASTIC (2' ABOVE SURF) 0-223 SCH 40** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #85409

| | | | |
|---|---|---|---|
| Owner: | **W.N. GEORGE** | Owner Well #: | **No Data** |
| Address: | **P.O. BOX 114<br>FISCHER, TX 78623** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 18" N** |
| Well Location: | **LINDA DRIVE LOT #10<br>FISCHER, TX 78623** | Longitude: | **098° 15' 07" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **5/12/2006** Drilling End Date: **5/19/2006**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9.875** | **0** | **201** |
| **6** | **201** | **460** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **201** | **39** |

Seal Method: **TRIMIE PIPE**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **236 ft.** below land surface on **2006-05-19** Measurement Method: **Unknown**

Packers: **6 inch rubber packer at 201'**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.R.R. PUMP SALES & SERVICE, INC.**

**1405 BLUE WATER DR.**
**CANYON LAKE, TX 78133**

Driller Name: **RONALD R. RUST** License Number: **2732**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-1 SURFACE SOIL** |
| **1-10 MS & MH Y W R** |
| **10-120 MH W Lt G R** |
| **120- 230 MH G R** |
| **230-320 MH W Lt G R** |
| **320-420 MH Br R** |
| **420-460 MH G Gr R** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **6 NEW PLASTIC (2'ABOVE SURF) 0-201 SCH 40** |

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# STATE OF TEXAS WELL REPORT for Tracking #127978

| | | | |
|---|---|---|---|
| Owner: | **Sean Macconnell** | Owner Well #: | **No Data** |
| Address: | **10351 Country Vista<br>San Antonio, TX 78240** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 37" N** |
| Well Location: | **1045 Cedar Valley<br>Canyon Lake, TX 78133** | Longitude: | **098° 16' 30" W** |
| Well County: | **Comal** | Elevation: | **1075 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **11/14/2007** Drilling End Date: **11/14/2007**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8** | **0** | **300** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **180** | **Hand Mix** |

Seal Method: **Hand Mixed**

Sealed By: **Kutscher Drilling**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **180 ft.** below land surface on **2007-11-10** Measurement Method: **Unknown**

Packers: **Rubber Packers at 180' and 200'**

Type of Pump: **Submersible** Pump Depth (ft.): **230**

Well Tests: **Estimated** **Yield: 10 GPM after .75 hours, no drawdown specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **Some Sulfur Smell** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling, Ltd**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **5** | **Top Soil** |
| **5** | **15** | **Yellow Limestone** |
| **15** | **70** | **Blue Limestone and clay** |
| **70** | **90** | **Light Blue Limestone and Clay** |
| **90** | **110** | **Blue Clay** |
| **110** | **170** | **Light Brown Limestone** |
| **170** | **290** | **Light Blue Limestone (Water @ 165)** |
| **290** | **300** | **Blue Limestone (Some Sulfur)** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4.5"** | **N** | **PVC SDR#17** | **0 to 280' Perforated 240-280'** |

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# STATE OF TEXAS WELL REPORT for Tracking #140206

| | | | |
|---|---|---|---|
| Owner: | **Richard Fitzgerald** | Owner Well #: | **No Data** |
| Address: | **22564 FM 306<br>New Braunfels, TX** | Grid #: | **68-06-6** |
| Well Location: | **22564 FM 306<br>New Braunfels, TX** | Latitude: | **29° 56' 39" N** |
| | | Longitude: | **098° 16' 03" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **2/2/2008** Drilling End Date: **2/22/2008**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **20** |
| **7** | **20** | **400** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **185** | **33 cement** |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **150**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Tape**

Surface Completion: **Surface Slab Installed**

Water Level: **205 ft.** below land surface on **2008-02-22** Measurement Method: **Unknown**

Packers: **Rubber cone 199**

Type of Pump: **Submersible** Pump Depth (ft.): **300**

Well Tests: **Jetted** **Yield: 15 GPM with 100 ft. drawdown after 2 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **380-400** | **sweet** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **S.en Drilling Co.**

**3409 FM 32**
**San Marcos, TX 78666**

Driller Name: **S.W. Owen** License Number: **1589**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **1** | **Top Soil** |
| **1** | **12** | **Caliche** |
| **12** | **105** | **Gray lime** |
| **105** | **160** | **Yellow lime** |
| **160** | **380** | **Gray lime** |
| **380** | **400** | **White lime** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **5 new pvc 0-199 sch 40** | | | |

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# STATE OF TEXAS WELL REPORT for Tracking #148947

| | | | |
|---|---|---|---|
| Owner: | **Max Hosford** | Owner Well #: | **No Data** |
| Address: | **120 Eagle Cliff Circle<br>Fischer, TX 78623** | Grid #: | **68-06-6** |
| Well Location: | **22960 FM 306<br>New Braunfels, TX 78130** | Latitude: | **29° 56' 29" N** |
| | | Longitude: | **098° 16' 14" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **1/26/2006** Drilling End Date: **1/26/2006**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8** | **0** | **200** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **30** | **5 Cement** |

Seal Method: **Hand Mixed**

Sealed By: **Kutscher Drilling**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Not Installed**

Surface Completion: **Surface Sleeve Installed**

Water Level: **52 ft.** below land surface on **2006-01-26** Measurement Method: **Unknown**

Packers: **2 Rubber Packers 24 & 35 feet**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 20 GPM with 148 ft. drawdown after .75 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **Good** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling Ltd**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Comments: **Type Pump: 10GS07 Submersible**
**$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **Top Soil** |
| **10** | **55** | **Yellow Limestone** |
| **55** | **160** | **Gray Sand** |
| **160** | **200** | **Gray Sand-20 GPM** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **5** | **New** | **PVC SDR#21** | **0 100** |

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# STATE OF TEXAS WELL REPORT for Tracking #150439

| | | | |
|---|---|---|---|
| Owner: | **Tom McIver** | Owner Well #: | **No Data** |
| Address: | **204 E Fair Oaks<br>San Antonio, TX 78209** | Grid #: | **68-06-6** |
| Well Location: | **McIver Ranch<br>Fisher, TX 78623** | Latitude: | **29° 56' 02" N** |
| | | Longitude: | **098° 15' 21" W** |
| Well County: | **Comal** | Elevation: | **1122 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **8/11/2008** Drilling End Date: **8/13/2008**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **400** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **20** | **5 cement** |
| **205** | **225** | **5 Cement** |

Seal Method: **Hand Mixed**

Sealed By: **Kutscher Drilling**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **225 ft.** below land surface on **2008-08-11** Measurement Method: **Unknown**

Packers: **Rubber 225/340**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 60 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **Cow Creek** |

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling, Ltd**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Apprentice Name: **Canon Kutscher** Apprentice Number: **58145**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0 to 5 Top Soil** |
| **5 to 20 Lt Yellow Limestone** |
| **20 to 120 Blue Limestone and Clay** |
| **120 to 200 Lt Yellow Limestone** |
| **200 to 310 Lt Blue Limestone and Clay** |
| **310 to 320 Lt Brown Limestone** |
| **320 to 360 Dark Gray Limestone (Hensel) (Cow Creek 50-70GPM)** |
| **360 to 390 Lt Brown Limestone** |
| **390 to 400 Brown Sandstone** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **4.5" N PVC SDR#17 Perf 340-380** |

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# STATE OF TEXAS WELL REPORT for Tracking #153362

| | | | |
|---|---|---|---|
| Owner: | **Tony Phillips** | Owner Well #: | **No Data** |
| Address: | **No Data** | Grid #: | **68-06-6** |
| Well Location: | **1841 Oak Meadow Rd.<br>Canyon Lake, TX 78133** | Latitude: | **29° 57' 03" N** |
| | | Longitude: | **098° 16' 27" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **8/13/2008** Drilling End Date: **8/14/2008**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8.75** | **0** | **360** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | **1 Sacrete** |
| **2** | **100** | **9 Bentonite** |

Seal Method: **Pressure Grout**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **Rubber Umbrella (2) 100, (1) 280**

Type of Pump: **Submersible**

Pump Depth (ft.): **320**

Well Tests: **Estimated** **Yield: 15 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Puddle Jumper Well Company**

**PO Biox 204**
**Bulverde, TX 78163**

Driller Name: **Joe Alan Wiebush** License Number: **56053**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **20** | **Tan & Gray L/S** |
| **20** | **40** | **Gray & Brown L/S** |
| **40** | **80** | **Brown & Lt. Brown L/S** |
| **80** | **100** | **Lt. Brown L/S & GrayShale** |
| **100** | **120** | **Gray Shale & Tan L/S** |
| **120** | **200** | **Brown & Lt. Brown L/S** |
| **200** | **260** | **Lt. Brown L/S** |
| **260** | **280** | **Lt. Brown L/S w/Dark Gray Sandy Shale** |
| **280** | **300** | **Dark Gray Shale & & Calcite** |
| **300** | **320** | **Lt. Brown & Brown L/S (water)** |
| **320** | **340** | **Dark Brown L/S (water)** |
| **340** | **360** | **Dark Brown L/S w/Shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4.5** | **New** | **PVC** | **+2-280 SDR 17** |
| **4.5** | **New** | **Perf. PVC** | **280-360 SDR 17** |

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# STATE OF TEXAS WELL REPORT for Tracking #181952

| | | | |
|---|---|---|---|
| Owner: | **John Hagan c/o Losaw Builders** | Owner Well #: | **No Data** |
| Address: | **No Data** | Grid #: | **68-06-6** |
| Well Location: | **Lot 16, Lakewood Ct., Lakewood Estates Canyon Lake, TX** | Latitude: | **29° 56' 27" N** |
| | | Longitude: | **098° 15' 56" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **4/22/2009** Drilling End Date: **4/23/2009**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8.75** | **0** | **400** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | **1 sacrete** |
| **2** | **100** | **9 Bentonite** |

Seal Method: **Pressure Grout**

Sealed By: **Driller**

Distance to Property Line (ft.): **15**

Distance to Septic Field or other concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **Rubber Umbrella 100,100,330**

Type of Pump: **Submersible**

Pump Depth (ft.): **360**

Well Tests: **Estimated** **Yield: 15 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Puddle Jumper Well Company**

**PO Box 204**
**Bulverde, TX 78163**

Driller Name: **Joe Alan Wiebush** License Number: **56053**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **20** | **Yellow Clay & Redish L/S** |
| **20** | **50** | **Brown L/S & Gray Shale** |
| **50** | **100** | **Lt. Brown-Tan & Gray Shale** |
| **100** | **130** | **Gray & Lt. Brown L/S** |
| **130** | **170** | **Tan & Lt. Brown L/S** |
| **170** | **290** | **Brown & Lt. Brown L/S** |
| **290** | **330** | **Dark Gray Shale & Calcite** |
| **330** | **370** | **Lt. Brown & Tan L/S** |
| **370** | **390** | **Dark Brown L/S** |
| **390** | **400** | **Gray L/S & Shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4.5** | **New** | **PVC** | **0-330 SDR 17** |
| **4.5** | **New** | **Perf PVC** | **330-390 SDR 17** |
| **4.5** | **New** | **PVC** | **390-400 SDR 17** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #186278

| | | | |
|---|---|---|---|
| Owner: | **HAROLD SCHROEDER** | Owner Well #: | **No Data** |
| Address: | **1487 LINDA DR<br>CANYON LAKE, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **1487 LINDA DR.<br>CANYON LAKE, TX 78133** | Latitude: | **29° 56' 16" N** |
| | | Longitude: | **098° 15' 07" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **6/23/2009** Drilling End Date: **6/30/2009**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **10** | **0** | **200** |
| **6** | **200** | **440** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **195** | **39 PORTLAND** |

Seal Method: **TRIMIE PIPE**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **TAPE**

Surface Completion: **Surface Slab Installed**

Water Level: **260 ft.** below land surface on **2009-06-30** Measurement Method: **Unknown**

Packers: **6" RUBBER 195**
**6" RUBBER 200**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 18-21 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **R.R.R. PUMP SALES & SERVICE, INC.**

**1405 BLUE WATER DR.**
**CANYON LAKE, TX 78133**

Driller Name: **RONALD R. RUST** License Number: **2732**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-1 SURFACE SOIL** |
| **1-13 MH & MS YR & Y C** |
| **13-100 MH G R** |
| **100- 200 MH W Lt G R** |
| **200- 300 MH G R** |
| **300- 370 MH Dr Gr G R** |
| **370- 390 MH W Lt Br R** |
| **390- 440 MH G R** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **6" NEW PLASTIC(2' ABOVE SURF) 0-200'6" SDR 17** |

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# STATE OF TEXAS WELL REPORT for Tracking #192215

| | | | |
|---|---|---|---|
| Owner: | **Lance & Janette Queen** | Owner Well #: | **1** |
| Address: | **1406 Queens Bay Drive<br>Katy, TX 77494** | Grid #: | **68-07-4** |
| Well Location: | **951 Linda Drive<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 24" N** |
| | | Longitude: | **098° 14' 57" W** |
| Well County: | **Comal** | Elevation: | **1140 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **8/31/2009** Drilling End Date: **8/31/2009**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8** | **0** | **440** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **20** | **5 cement** |
| **270** | **290** | **5 Cement** |

Seal Method: **Hand Mixed**

Sealed By: **Kutscher Drilling**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **290 ft.** below land surface on **2009-08-31** Measurement Method: **Unknown**

Packers: **Rubber 290/350**

Type of Pump: **Submersible** Pump Depth (ft.): **370**

Well Tests: **Estimated** **Yield: 15+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling, Ltd**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Apprentice Name: **Canon Kutscher** Apprentice Number: **58145**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0 to 15 Yellow Limestone** |
| **15 to 180 Blue Limestone & Clay Seep 20 Seep 120** |
| **180 to 280 Lt Brown Limestone** |
| **280 to 380 Lt. Blue Limestone** |
| **380 to 390 Brown Limestone Water 5-7 GPM** |
| **390 to 425 Dark limestone** |
| **425 to 440 Lt. Brown Limestone Water 15+** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **4.5" N PVC SDR#17 0 to 360'** |

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# STATE OF TEXAS WELL REPORT for Tracking #395988

| | | | |
|---|---|---|---|
| Owner: | **Darryl Hickey & Nancy Doyle** | Owner Well #: | **No Data** |
| Address: | **No Data** | Grid #: | **68-07-4** |
| Well Location: | **835 Linda Lane<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 22" N** |
| | | Longitude: | **098° 14' 54" W** |
| Well County: | **Comal** | Elevation: | **1177 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **5/26/2015** Drilling End Date: **5/26/2015**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **9** | **0** | **490** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | **2 Quik Crete** |
| **2** | **90** | **5 Benseal** |
| **90** | **100** | **2H.Pl./2Quik Cr** |

Seal Method: **Tremmie Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50+**

Distance to Septic Field or other concentrated contamination (ft.): **65**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **2 Rubber Cones @ 100'**
**1 Rubber Cone @ 350'**

Type of Pump: **Submersible**

Pump Depth (ft.): **440**

Well Tests: **Estimated** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **70** | **Cow Creek** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Puddle Jumper Well Company**

**PO Box 204**
**Bulverde, TX 78163**

Driller Name: **Joe Alan Wiebush** License Number: **56053**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **8** | **Caliche** |
| **8** | **15** | **Grey L/S** |
| **15** | **22** | **Brown L/S** |
| **22** | **175** | **Grey & Brown L/S** |
| **175** | **230** | **Brown L/S** |
| **230** | **315** | **Brown & L. Brown L/S** |
| **315** | **360** | **L. Brown L/S** |
| **360** | **385** | **L. Brown & Tan L/S (Water) 380** |
| **385** | **430** | **Dark Gray Shale & Calcite** |
| **430** | **485** | **Dark Brown-L. Brown & Tan L/S (Water)** |
| **485** | **490** | **Gray L/S & Shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|---|---|---|---|
| **4.5** | **New** | **SDR 17 PVC Casing** | **0 - 390** |
| **4.5** | **New** | **SDR 17 PVC Screen** | **390 - 490** |

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# STATE OF TEXAS WELL REPORT for Tracking #405359

| | | | |
|---|---|---|---|
| Owner: | **Billy Knighten** | Owner Well #: | **No Data** |
| Address: | **226611 Highway 306<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **22611 Highway 306<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 22" N** |
| | | Longitude: | **098° 16' 10" W** |
| Well County: | **Comal** | Elevation: | **1015 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **9/10/2015** Drilling End Date: **9/10/2015**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **2** |
| **8** | **2** | **240** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **20** | **2.5 bags cement** |
| **28** | **48** | **2.5 bags cement** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **50+**

Distance to Septic Field or other concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **41 ft.** below land surface on **2015-09-10** Measurement Method: **Unknown**

Packers: **Rubber - 48', 50'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| From (ft) To (ft) Description |
|---|
| **0-100 Yellow and White Limestone** |
| **100-115 Dark Blue Limestone** |
| **115-225 Light Blue Limestone** |
| **225-240 Dark Blue Limestone** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) New/Used Type Setting From/To (ft.) |
|---|
| **4.5" N SDR-17 PVC 0'-160'** |

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# STATE OF TEXAS WELL REPORT for Tracking #447819

| | | | |
|---|---|---|---|
| Owner: | **Larry Patton** | Owner Well #: | **No Data** |
| Address: | **1572 Laguna Dr<br>Spring Branch, TX 78070** | Grid #: | **68-06-6** |
| Well Location: | **196 krebs RD<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 09.55" N** |
| | | Longitude: | **098° 15' 12.9" W** |
| Well County: | **Comal** | Elevation: | **319 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **4/20/2017** Drilling End Date: **4/20/2017**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **340** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **20** | **Cement & Sand Mix 4 Bags/Sacks** |
| **20** | **80** | **Cement 18 Bags/Sacks** |
| **80** | **100** | **Cement & Sand Mix 3 Bags/Sacks** |

Seal Method: **Pressure**

Sealed By: **Driller**

Variance Number: **yes**

Distance to Property Line (ft.): **43**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **50**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **51 ft.** below land surface on **No Data**

Packers: **Rubber at 100 ft.**
**Rubber at 220 ft.**

Type of Pump: **No Data**

Well Tests: **Yield: 15 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **2** | **Top Soil** |
| **2** | **20** | **Yellow Chalk** |
| **20** | **30** | **Light Tan Chalk** |
| **30** | **40** | **Grey Chalk** |
| **40** | **50** | **Tan Chalk** |
| **50** | **55** | **Grey Clay** |
| **55** | **85** | **Tan Chalk** |
| **85** | **90** | **Dark Tan Chalk** |
| **90** | **170** | **Light Tan Chalk** |
| **170** | **180** | **Grey Chalk** |
| **180** | **260** | **Light Tan Chalk** |
| **260** | **280** | **Dark Tan Chalk** |
| **280** | **330** | **Dark Grey Chalk** |
| **330** | **340** | **Black Shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR-17** | **-2** | **278** |
| **4.5** | **Screen** | **New Plastic (PVC)** | **SDR-17** | **278** | **298** |

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**(512) 334-5540**

# STATE OF TEXAS WELL REPORT for Tracking #467243

| | | | |
|---|---|---|---|
| Owner: | **Frank Murray** | Owner Well #: | **No Data** |
| Address: | **22414 FM 306<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 24.5" N** |
| Well Location: | **22414 FM 306<br>Canyon Lake, TX 78133** | Longitude: | **098° 15' 56.7" W** |
| Well County: | **Comal** | Elevation: | **1055 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **11/15/2017** Drilling End Date: **11/15/2017**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **50** |
| **6.25** | **50** | **410** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **-1** | **50** | **6 cement 2 bentonite gelclay Bags/Sacks** |

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **>70**

Distance to Septic Field or other concentrated contamination (ft.): **Unknown**

Distance to Septic Tank (ft.): **Unknown**

Method of Verification: **Well drilled first / Owner**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap at 50 ft.**
**Burlap and Plastic at 230 ft.**
**Burlap and PLastic at 250 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 30-35 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **250 - 385** | **Mid Trinity** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Associated Drilling Inc**

**PO Box 673**
**Dripping Springs, TX 78620**

Driller Name: **James Benoit** License Number: **4064**

Comments: **Glass Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **20** | **tan lime and clay** |
| **20** | **250** | **blue lime** |
| **250** | **315** | **tan white limestone (h2o)** |
| **315** | **330** | **tan and brown limestone** |
| **330** | **385** | **gray white limestone** |
| **385** | **410** | **gray lime and shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **sdr17** | **-3** | **310** |
| **4.5** | **Screen** | **New Plastic (PVC)** | **sdr17 0.020** | **310** | **370** |
| **4.5** | **Blank** | **New Plastic (PVC)** | **sdr17** | **370** | **410** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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# STATE OF TEXAS WELL REPORT for Tracking #467653

| | | | |
|---|---|---|---|
| Owner: | **Joey Thorpe** | Owner Well #: | **169** |
| Address: | **1166 Linda Dr.<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **1166 Linda Dr.<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 32.85" N** |
| | | Longitude: | **098° 15' 04.93" W** |
| Well County: | **Comal** | Elevation: | **1135 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **12/17/2017** Drilling End Date: **12/18/2017**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **11** | **0** | **3** |
| **9** | **3** | **463** |

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **50** | **463** | **Gravel** | **3/8** |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **50** | **Cement 12 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **100**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Jetted** **Yield: 10 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Spring Branch Water Well Service**

**8567 US HIGHWAY 281 N**
**Spring Branch, TX 78070**

Driller Name: **Ernest V. Haack IV**

License Number: **59587**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **12** | **Tan** |
| **12** | **145** | **Gray** |
| **145** | **165** | **Tan Limestone/gray** |
| **165** | **212** | **Gray Limestone** |
| **212** | **360** | **Tan Limestone/gray layers** |
| **358** | **358** | **10gpm** |
| **360** | **380** | **Brown/tan** |
| **380** | **410** | **Gray/crystals** |
| **410** | **410** | **H2O** |
| **410** | **460** | **Tan cowcreek** |
| **425** | **425** | **H2O** |
| **460** | **463** | **Gray Limestone** |
| **463** | **463** | **TD** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **-2** | **360** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **SDR17** | **360** | **460** |

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# STATE OF TEXAS WELL REPORT for Tracking #556949

| | | | |
|---|---|---|---|
| Owner: | **Dennis Bien** | Owner Well #: | **CT71** |
| Address: | **924 Canyon Trace<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 26.77" N** |
| Well Location: | **1264 Linda Dr<br>Canyon Lake, TX 78133** | Longitude: | **098° 15' 06.25" W** |
| Well County: | **Comal** | Elevation: | **No Data** |

Type of Work: **Replacement** for Tracking # **523954** Proposed Use: **Domestic**

Drilling Start Date: **11/5/2019** Drilling End Date: **11/6/2019**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **12** | **0** | **7** |
| **9** | **7** | **480** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **25**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **100**

Method of Verification: **Wheel**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **258 ft.** below land surface on **2019-11-06**

Packers: **Rubber at 255 ft.**
**Rubber at 260 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 10 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **260 - 380** | **Lower Glen Rose** |
| **390 - 480** | **Cow Creek** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Apprentice Name: **David Ramirez** Apprentice Number: **60526**

Comments: **No Data**

**Report Amended on 9/26/2022 by Request #37569**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **15** | **Caliche** |
| **15** | **30** | **Gray Limestone** |
| **30** | **65** | **Light Gray Limestone** |
| **65** | **80** | **Gray Limestone w/ clay** |
| **80** | **115** | **Gray/Tan Limestone (Seep)** |
| **115** | **120** | **Dark Gray Limestone w/ clay** |
| **120** | **160** | **Gray/tan limestone w/ clay** |
| **160** | **180** | **Light tan limestone** |
| **180** | **260** | **Gray/Tan Limestone** |
| **260** | **380** | **Tan Limestone (H2O)** |
| **380** | **400** | **Gray/Tan Limestone** |
| **400** | **425** | **Grayish Brown Limestone (H2O)** |
| **425** | **480** | **Brown Limestone w/ some light tan** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR 17** | **-2** | **418** |
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR 17 0.032** | **418** | **438** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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# STATE OF TEXAS WELL REPORT for Tracking #560675

| | | | |
|---|---|---|---|
| Owner: | **Gary and Annette Thuman** | Owner Well #: | **CT245** |
| Address: | **383 Secret Way<br>Spring Branch, TX 78070** | Grid #: | **68-06-6** |
| Well Location: | **406 Lakewood CT<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 34.4" N** |
| | | Longitude: | **098° 16' 01.8" W** |
| Well County: | **Comal** | Elevation: | **1102 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **11/6/2020** Drilling End Date: **11/9/2020**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **12** | **0** | **6** |
| **9** | **6** | **400** |

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **190** | **Cement 55 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **53**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **100**

Method of Verification: **Wheel**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **142 ft.** below land surface on **2020-11-09** Measurement Method: **Electric Line**

Packers: **Rubber at 190 ft.**
**Rubber at 200 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 10+ GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **250 - 400** | **Glen Rose** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling**

**3810 Hunter Road**
**San Marcos, TX 78666**

Driller Name: **Daniel Kutscher** License Number: **54746**

Apprentice Name: **David Ramirez** Apprentice Number: **60526**

Comments: **Odor Observed when drilling**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **4** | **Caliche** |
| **4** | **10** | **Yellow Clay** |
| **10** | **40** | **Gray & Tan Clay** |
| **40** | **60** | **Light Tan Limestone** |
| **60** | **90** | **Light Gray/Tan Limestone** |
| **90** | **100** | **Light Gray Limestone** |
| **100** | **150** | **Tan Limestone(Seep)** |
| **150** | **200** | **Gray Tan Limestone** |
| **200** | **250** | **Light Tan Limestone** |
| **250** | **270** | **Light Brown/ Gray Limestone** |
| **270** | **320** | **Gray Limestone/Quartz/ Some Brown Limestone** |
| **320** | **360** | **Light Tan Limestone** |
| **360** | **385** | **Brownish Gray Limestone** |
| **385** | **400** | **Gray Limestone w/ some clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR 17** | **-2** | **338** |
| **4.5** | **Screen** | **New Plastic (PVC)** | **SDR 17 0.032** | **338** | **358** |

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# STATE OF TEXAS WELL REPORT for Tracking #591343

| | | | |
|---|---|---|---|
| Owner: | **Kristen Buchmann** | Owner Well #: | **428aCTGCD/465SBWWS** |
| Address: | **24245 Wilderness Oak Apt. 1808<br>San Antonio, TX 78258** | Grid #: | **68-06-6** |
| Well Location: | **206 Lakewood Ct<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 34" N** |
| | | Longitude: | **098° 15' 47" W** |
| Well County: | **Comal** | Elevation: | **1140 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **11/15/2021** Drilling End Date: **11/15/2021**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **11** | **0** | **3** |
| **9** | **3** | **444** |

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **180** | **444** | **Gravel** | **3/8** |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **180** | **Cement 42 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **100**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Jetted** **Yield: 10 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **380 - 440** | **Cowcreek** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Spring Branch Water Well Service**

**8567 US HIGHWAY 281 N**
**Spring Branch, TX 78070**

Driller Name: **Ernest V. Haack IV**

License Number: **59587**

Comments: **2 yards of gravel used**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **Tan** |
| **10** | **50** | **Gray/Tan** |
| **50** | **50** | **10+GPM** |
| **50** | **63** | **Gray** |
| **63** | **70** | **Clay** |
| **70** | **110** | **Gray/Tan limestone/clay layers** |
| **110** | **160** | **Tan** |
| **160** | **330** | **Gray Layers** |
| **330** | **380** | **Gray shale/Crystal/ Bexar** |
| **380** | **420** | **Tan Limestone Cowcreek** |
| **420** | **439** | **Gray Limestone** |
| **439** | **444** | **Clay** |
| **444** | **444** | **TD** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **-2** | **300** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **0.035** | **300** | **340** |
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **340** | **380** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **0.035** | **380** | **440** |

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# STATE OF TEXAS WELL REPORT for Tracking #606967

| | | | |
|---|---|---|---|
| Owner: | **Aaron Balogh** | Owner Well #: | **No Data** |
| Address: | **14490 FM 306<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **296 Lakewood Ct.<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 34.3" N** |
| | | Longitude: | **098° 15' 50.5" W** |
| Well County: | **Comal** | Elevation: | **1113 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **5/11/2022** Drilling End Date: **5/11/2022**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **430** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **290** | **Portland 84 Bags/Sacks** |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Well drilled first**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **210 ft.** below land surface, and **25 GPM** artesian flow on **2022-05-16**

Measurement Method: **Electric Line**

Packers: **Burlap at 290 ft.**
**Burlap/Plastic at 295 ft.**
**Burlap/Plastic at 300 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **400**

Well Tests: **Jetted** **Yield: 25 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **330 - 430** | **Middle Trinity** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Centex Pump & Supply, Inc.**

**2520 Hwy. 290 West**
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **1** | **Top Soil** |
| **1** | **17** | **Caliche** |
| **17** | **33** | **Gray** |
| **33** | **270** | **Gray Tan** |
| **270** | **330** | **Tan** |
| **330** | **350** | **Gray Brown** |
| **350** | **425** | **Brown** |
| **425** | **430** | **Gray w/ Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **2** | **330** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **SDR17** | **330** | **430** |

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# STATE OF TEXAS WELL REPORT for Tracking #612625

| | | | |
|---|---|---|---|
| Owner: | **Par Ubhi** | Owner Well #: | **ctgcd#504a/sbwws509** |
| Address: | **23334 Seven Winds<br>San Antonio, TX 78258** | Grid #: | **68-06-6** |
| Well Location: | **1239 Oak Meadow<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 35" N** |
| | | Longitude: | **098° 16' 25" W** |
| Well County: | **Comal** | Elevation: | **1090 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **6/2/2022** Drilling End Date: **6/2/2022**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **11** | **0** | **3** |
| **9** | **3** | **404** |

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **100** | **404** | **Gravel** | **3/8** |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **100** | **Cement 21 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): **100**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **380**

Well Tests: **Jetted** **Yield: 10 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **260 - 290** | **Reef** |
| **330 - 390** | **Cowcreek** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Spring Branch Water Well Service**

**8567 US HIGHWAY 281 N**
**Spring Branch, TX 78070**

Driller Name: **Ernest V Haack IV**

License Number: **59587**

Comments: **3 yards of gravel used**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **15** | **TAn** |
| **15** | **80** | **Gray Shale/Limetone** |
| **80** | **95** | **Tan** |
| **95** | **120** | **Gray Shale** |
| **120** | **160** | **Tan limestone some gray** |
| **160** | **200** | **Gray/Tan** |
| **200** | **220** | **Tan** |
| **220** | **260** | **Gray/Tan** |
| **260** | **290** | **Tan/H20 Reef** |
| **290** | **330** | **Gray Shale Crystal Bexar** |
| **330** | **380** | **Tan Limestone Cowcreek** |
| **380** | **390** | **Gray limestone** |
| **390** | **404** | **Clay** |
| **404** | **404** | **TD** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **-2** | **240** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **0.035** | **240** | **280** |
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **280** | **320** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **0.035** | **320** | **380** |
| **4.5** | **Blank** | **New Plastic (PVC)** | **SDR17** | **380** | **400** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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# STATE OF TEXAS WELL REPORT for Tracking #621687

| | | | |
|---|---|---|---|
| Owner: | **Robert and Carla McFadden** | Owner Well #: | **CTGCD 469a** |
| Address: | **4200 Oak County Dr.<br>Arlington, TX 76017** | Grid #: | **68-07-4** |
| Well Location: | **215 Brenda Lane<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 22" N** |
| | | Longitude: | **098° 14' 59" W** |
| Well County: | **Comal** | Elevation: | **1146 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **9/14/2022** Drilling End Date: **9/27/2022**

| | *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|---|
| Borehole: | **8.75** | **0** | **450** |

Drilling Method: **Air Rotary**

Borehole Completion: **3/8" Washed Gravel (230'-450' 3 Yards)**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | **Quickcrete 2 Bags/Sacks** |
| **2** | **230** | **Portland 44 Bags/Sacks** |
| **230** | **232** | **Hole Plug 1 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Estimated** **Yield: 15 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **Trinity** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Puddle Jumper Well Company**

**PO Box 204**
**Bulverde, TX 78163**

Driller Name: **James A Duggan** License Number: **59553**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **30** | **Tan & Grey Limestone** |
| **30** | **60** | **Grey Clay** |
| **60** | **80** | **Tan Limestone** |
| **80** | **120** | **Grey Limestone w/Clay layers** |
| **120** | **140** | **Cream Limestone** |
| **140** | **160** | **Grey Clay** |
| **160** | **340** | **Grey & Cream Limestone** |
| **340** | **400** | **Medium Grey, Dark Grey and Tan Limestone (Water)** |
| **400** | **440** | **White, Cream and Grey Limestone (Water)** |
| **440** | **450** | **Dark Grey Clay** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Solid** | **New** | **17** | **0** | **340** |
| **4.5** | **Screen** | **New** | **17** | **340** | **440** |
| **4.5** | **Solid** | **New** | **17** | **440** | **450** |

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# STATE OF TEXAS WELL REPORT for Tracking #644445

| | | | |
|---|---|---|---|
| Owner: | **Scott Higgins** | Owner Well #: | **CTGCD#623a** |
| Address: | **192 Brenda Lane<br>Canyon Lake , TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **192 Brenda Lane<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 18.8" N** |
| | | Longitude: | **098° 15' 01.3" W** |
| Well County: | **Comal** | Elevation: | **1117 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **6/7/2023** Drilling End Date: **6/15/2023**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **12.25** | **0** | **10** |
| **10** | **10** | **460** |

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Filter Material* | *Size* |
|---|---|---|---|
| **270** | **460** | **Gravel** | **3/8** |

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **270** | **Cement 56** |
| **270** | **460** | **Gravel 2.75 Yards** |

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **65+**

Distance to Septic Field or other concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **238 ft.** below land surface on **2023-06-16** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **420**

Well Tests: **Jetted** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **270 - 460** | **Cow Creek** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**

**185 Angel Fire Rd.**
**Dripping Springs, TX 78620**

Driller Name: **Michael Scott** License Number: **59719**

Comments: **No Data**

**Report Amended on 8/17/2023 by Request #40173**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **caliche** |
| **10** | **20** | **tan limestone** |
| **20** | **100** | **grey limestone** |
| **100** | **460** | **tan limestone wb 10-20 gpm** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **5** | **Blank** | **New Plastic (PVC)** | **0.32** | **0** | **420** |
| **5** | **Screen** | **New Plastic (PVC)** | **0.32** | **420** | **460** |

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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# STATE OF TEXAS WELL REPORT for Tracking #647441

| | | | |
|---|---|---|---|
| Owner: | **Gracie Carlile** | Owner Well #: | **CTGCD 644a** |
| Address: | **366 Mystic Shores Blvd.<br>Spring Branch, TX 78070** | Grid #: | **68-06-6** |
| | | Latitude: | **29° 56' 33.83" N** |
| Well Location: | **306 Lakewood Court<br>Canyon Lake, TX 78133** | Longitude: | **098° 15' 54.11" W** |
| Well County: | **Comal** | Elevation: | **1108 ft. above sea level** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **7/26/2023** Drilling End Date: **8/3/2023**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **8.75** | **0** | **440** |

Drilling Method: **Air Rotary**

Borehole Completion: **3|8 Washed Gtravel (2 Yrds.) 212-440**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **2** | **Quickcrete 2 Bags/Sacks** |
| **2** | **210** | **Portland 39 Bags/Sacks** |
| **210** | **212** | **Hole Plug 1 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **52'**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **400**

Well Tests: **Estimated** **Yield: 20 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **No Data** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Puddle Jumper Well Company**

**PO Box 204**
**Bulverde, TX 78163**

Driller Name: **James A Duggan** License Number: **59553**

Comments: **No Data**

**Report Amended on 8/7/2024 by Request #42935**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **Rock** |
| **10** | **20** | **Clay** |
| **20** | **160** | **Grey Limstone w\|Clay Layers** |
| **160** | **220** | **Cream & Grey Limestone** |
| **220** | **310** | **Light Grey Limestone \|Sand Stone (Water)** |
| **310** | **350** | **Bear Shale** |
| **350** | **390** | **Med. Grey, Light Grey & White Limestone (Water)** |
| **390** | **435** | **Dark Grey Limestone** |
| **435** | **440** | **Pine Island Shale** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Solid** | **New** | **17** | **0** | **320** |
| **4.5** | **Screen** | **New** | **17** | **320** | **420** |
| **4.5** | **Solid** | **New** | **17** | **420** | **440** |

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# STATE OF TEXAS WELL REPORT for Tracking #655278

| | | | |
|---|---|---|---|
| Owner: | **kathleen Davis** | Owner Well #: | **No Data** |
| Address: | **270 Lakewood Ct<br>Canyon Lake, TX 78133** | Grid #: | **68-06-6** |
| Well Location: | **270 Lakewood Ct<br>Canyon Lake, TX 78133** | Latitude: | **29° 56' 32.93" N** |
| | | Longitude: | **098° 15' 50.11" W** |
| Well County: | **Comal** | Elevation: | **No Data** |
| Type of Work: | **New Well** | Proposed Use: | **Domestic** |

Drilling Start Date: **6/28/2023** Drilling End Date: **6/29/2023**

Borehole:

| *Diameter (in.)* | *Top Depth (ft.)* | *Bottom Depth (ft.)* |
|---|---|---|
| **9** | **0** | **420** |

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

| *Top Depth (ft.)* | *Bottom Depth (ft.)* | *Description (number of sacks & material)* |
|---|---|---|
| **0** | **4** | **Cement 8 Bags/Sacks** |
| **4** | **290** | **Cement 92 Bags/Sacks** |
| **290** | **300** | **Bentonite 6 Bags/Sacks** |

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50+**

Distance to Septic Field or other concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **200 ft.** below land surface, and **0 GPM** artesian flow on **2023-06-30**

Measurement Method: **Sonic/Radar**

Packers: **Rubber and Plastic at 300 ft.**

Type of Pump: **none**

Pump Depth (ft.): **0**

Well Tests: **No Test Data Specified**

Water Quality:

| Strata Depth (ft.) | Water Type |
|---|---|
| **380 - 420** | **No Data** |

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Hazelett Drilling**

**915 Old McMahan Rd**
**Lockhart, TX 78644**

Driller Name: **George Hazelett** License Number: **59429**

Comments: **good well**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|---|---|---|
| **0** | **10** | **tan** |
| **10** | **120** | **grey clay** |
| **120** | **170** | **tan clay** |
| **170** | **340** | **grey shale** |
| **340** | **380** | **hard grey shale** |
| **380** | **420** | **fractured limestone** |

Casing:
BLANK PIPE & WELL SCREEN DATA

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|---|---|---|---|---|---|
| **4.5** | **Blank** | **New Plastic (PVC)** | **sdr 17** | **-2** | **380** |
| **4.5** | **Perforated or Slotted** | **New Plastic (PVC)** | **sdr17 0.020** | **380** | **420** |

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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): 0.10

2-Hr Peak Flow (MGD): 0.40

Estimated construction start date: November 2025

Estimated waste disposal start date: May 2026

**B. Interim II Phase**

Design Flow (MGD): 0.30

2-Hr Peak Flow (MGD): 1.2

Estimated construction start date: November 2026

Estimated waste disposal start date: May 2027

**C. Final Phase**

Design Flow (MGD): 0.60

2-Hr Peak Flow (MGD): 2.4

Estimated construction start date: November 2027

Estimated waste disposal start date: May 2028

**D. Current Operating Phase**

Provide the startup date of the facility: N/A

## Section 2. Treatment Process (Instructions Page 43)

**A. Current Operating Phase**

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

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

| |
|---|
| See Treatment Unit Sizing and Process Description Attachment |

### B. Treatment Units

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

**Table 1.0(1) - Treatment Units**

| Treatment Unit Type | Number of Units | Dimensions (L x W x D) |
|---|---|---|
| See Treatment Unit Sizing and Process Description Attachment | | |
| | | |
| | | |
| | | |
| | | |
| | | |

### C. Process Flow Diagram

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

**Attachment**: Process Flow Diagram

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

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

- Latitude: 29.9584N
- Longitude: 98.2602W

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

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

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

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

disposal site.

**Attachment**: Site Drawing

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

| |
|---|
| The facility will serve Broken Cedar Ranch Development, a new 850 lot subdivision in Comal County, Texas. |

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

**Collection System Information**

| Collection System Name | Owner Name | Owner Type | Population Served |
|---|---|---|---|
| N/A | | | |
| | | | |
| | | | |
| | | | |

## Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

| |
|---|
| N/A |

## Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

## Section 6. Permit Specific Requirements (Instructions Page 45)

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

### A. Summary transmittal

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

☐ Yes ☒ No

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

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

N/A

### B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The buffer zone is primarily met by ownership. A small portion of the 150' buffer zone encroaches on TxDOT right-of-way. See attached Buffer Zone map and Letter from TxDOT.

## C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

## D. Grit and grease treatment

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

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

☐ Yes ☒ No

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

### *2. Grit and grease processing*

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

N/A

### *3. Grit disposal*

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

| |
|---|
| N/A |

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

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

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

| |
|---|
| N/A |

## E. Stormwater management

### 1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

### 2. *MSGP coverage*

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

☐ Yes ☒ No

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

TXR05 N/A or TXRNE N/A

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

☐ Yes ☒ No

### 3. *Conditional exclusion*

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

☐ Yes ☒ No

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

| |
|---|
| N/A |

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

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

☐ Yes ☒ No

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

| |
|---|
| N/A |

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

| |
|---|
| N/A |

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

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

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

☐ Yes ☒ No

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

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

| N/A |
|---|

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

## F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

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

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

☐ Yes ☒ No

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

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

| N/A |
|---|

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

### 2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

| |
|---|
| N/A |

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

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

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

☐ Yes ☒ No

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

| |
|---|
| N/A |

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

Is the facility in operation?

☐ Yes ☒ No

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

**If yes**, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). W***ater 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 | | | | | |
| Total Suspended Solids, mg/l | | | | | |
| Ammonia Nitrogen, mg/l | | | | | |
| Nitrate Nitrogen, mg/l | | | | | |
| Total Kjeldahl Nitrogen, mg/l | | | | | |
| Sulfate, mg/l | | | | | |
| Chloride, mg/l | | | | | |
| Total Phosphorus, mg/l | | | | | |
| pH, standard units | | | | | |
| Dissolved Oxygen*, mg/l | | | | | |
| Chlorine Residual, mg/l | | | | | |
| *E.coli* (CFU/100ml) freshwater | | | | | |
| Entercocci (CFU/100ml) saltwater | | | | | |
| Total Dissolved Solids, mg/l | | | | | |
| Electrical Conductivity, µmohs/cm, † | | | | | |
| Oil & Grease, mg/l | | | | | |
| Alkalinity ($CaCO_3$)*, mg/l | | | | | |

*TPDES permits only
†TLAP permits only

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

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

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: To be determined

Facility Operator's License Classification and Level: To be determined

Facility Operator's License Number: To be determined

## 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: N/A

**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 |
|---|---|---|---|---|---|
| Other | | | | | |
| | | | | | |
| | | | | | |

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Monofill – transported to processing facility for disposal

### D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

### E. Transportation method

Method of transportation (truck, train, pipe, other): To be determined

Name of the hauler: To be determined

Hauler registration number: To be determined

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**: N/A
- USDA Natural Resources Conservation Service Soil Map:

  **Attachment**: N/A
- Federal Emergency Management Map:

  **Attachment**: N/A
- Site map:

  **Attachment**: N/A

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**: N/A

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

| |
|---|
| N/A |

## B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: 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.

| |
|---|
| N/A |

**D. Site development plan**

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

| |
|---|
| N/A |

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:** N/A

## 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:

N/A

### B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

### A. RCRA hazardous wastes

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

☐ Yes ☒ No

**B. Remediation activity wastewater**

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

☐ Yes ☒ No

**C. Details about wastes received**

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

**Attachment:** N/A

## Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Richard Mott

Title: VP of Land Development

Signature: _____

Date: 10/15/2024

# 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.

Broken Cedar Ranch Development is currently planning 850 units (250 gpd/unit) and intends to add more phases to the development. Altogether, it is approximated to generate 600,000 gallons-per day of domestic strength wastewater at full buildout. There are no facilities within 3 miles that have capacity, and/or it is not economically feasible to transport waste to an existing facility. A site drawing of the development is included with the application.

### 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: N/A

**If yes**, attach correspondence from the city.

**Attachment:** N/A

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:** N/A

#### 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**: N/A

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**: N/A

**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**: N/A

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:** N/A

## 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):

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

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

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

**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 | | |
| Subdivision | 0.6 | 350 |
| Trailer park – transient | | |
| Mobile home park | | |
| School with cafeteria and showers | | |
| School with cafeteria, no showers | | |
| Recreational park, overnight use | | |
| Recreational park, day use | | |
| Office building or factory | | |
| Motel | | |
| Restaurant | | |
| Hospital | | |
| Nursing home | | |
| Other | | |
| TOTAL FLOW from all sources | 0.6 | |
| AVERAGE $BOD_5$ from all sources | | 350 |

## 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: 5

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 1

Dissolved Oxygen, mg/l: ≥4

Other: N/A

**B. Interim II Phase Design Effluent Quality**

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 1

Dissolved Oxygen, mg/l: >4

Other: N/A

**C. Final Phase Design Effluent Quality**

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 1

Dissolved Oxygen, mg/l: >4

Other: N/A

**D. Disinfection Method**

Identify the proposed method of disinfection.

☒ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow

Dechlorination process: **OR**

☒ Ultraviolet Light: 10 seconds contact time at peak flow

☐ Other:

## 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**: Design Calculations

## 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.

N/A

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

| FEMA Map Viewer: 48091C0085F |
| --- |

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: N/A

**If no,** provide the approximate date you anticipate submitting your application to the Corps: N/A

**B. Wind rose**

Attach a wind rose: Windrose

## 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)**: N/A

**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)**: N/A

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

Attach a solids management plan to the application.

**Attachment:** Solids Management Plan

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).

N/A

**C. Sea grasses**

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

☐ Yes ☒ No

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

N/A

## Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

**If yes**, this Worksheet is complete.

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

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

Name of the immediate receiving waters: unnamed intermittent stream, thence to Potter Creek, thence to Canyon Lake in Segment 1805 of the Guadalupe River Basin

**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: N/A

### C. Downstream perennial confluences

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

N/A

### 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.

N/A

### E. Normal dry weather characteristics

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

Streambed is dry.

Date and time of observation: August 2024, 9Am

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

### A. Upstream influences

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

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: N/A

**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: N/A

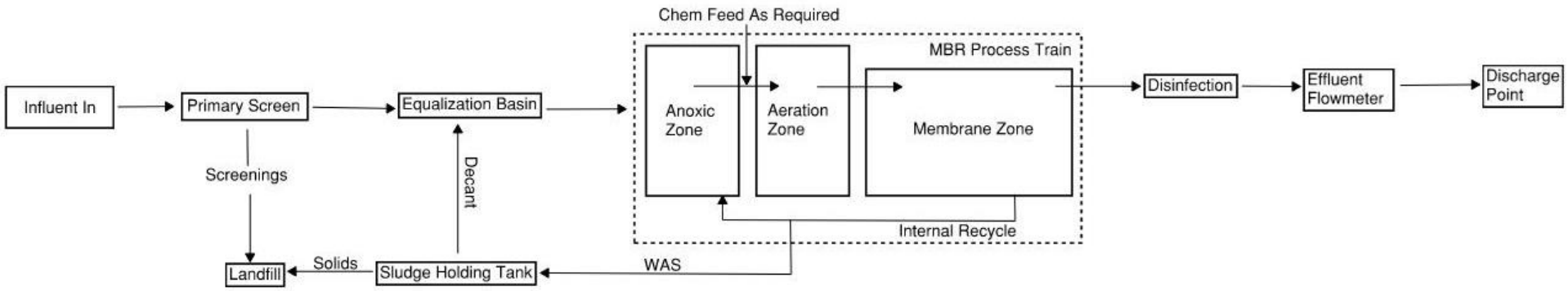
**C. Waterbody aesthetics**

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

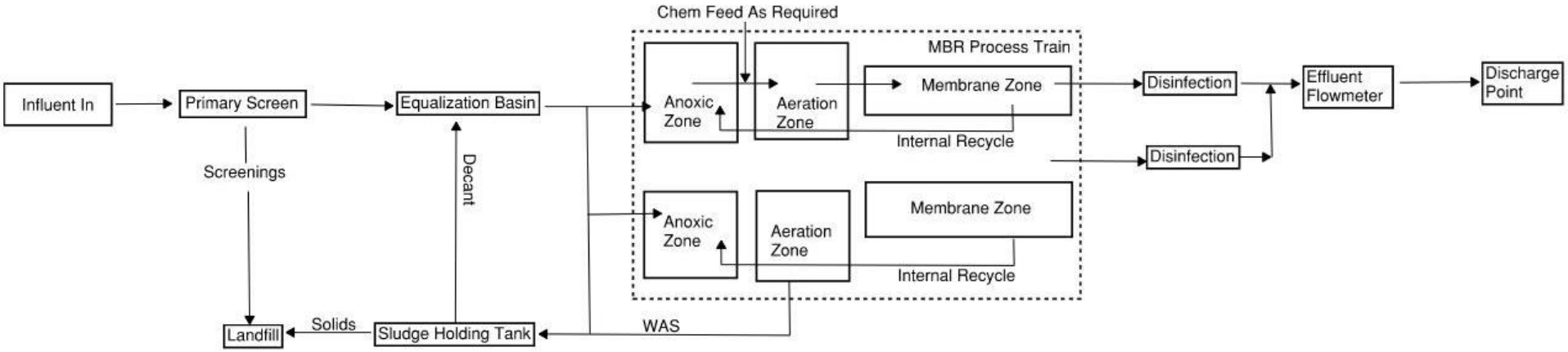
# Broken Cedar Ranch WWTF - Process Description

**Phase 1 – 100,000 gpd**



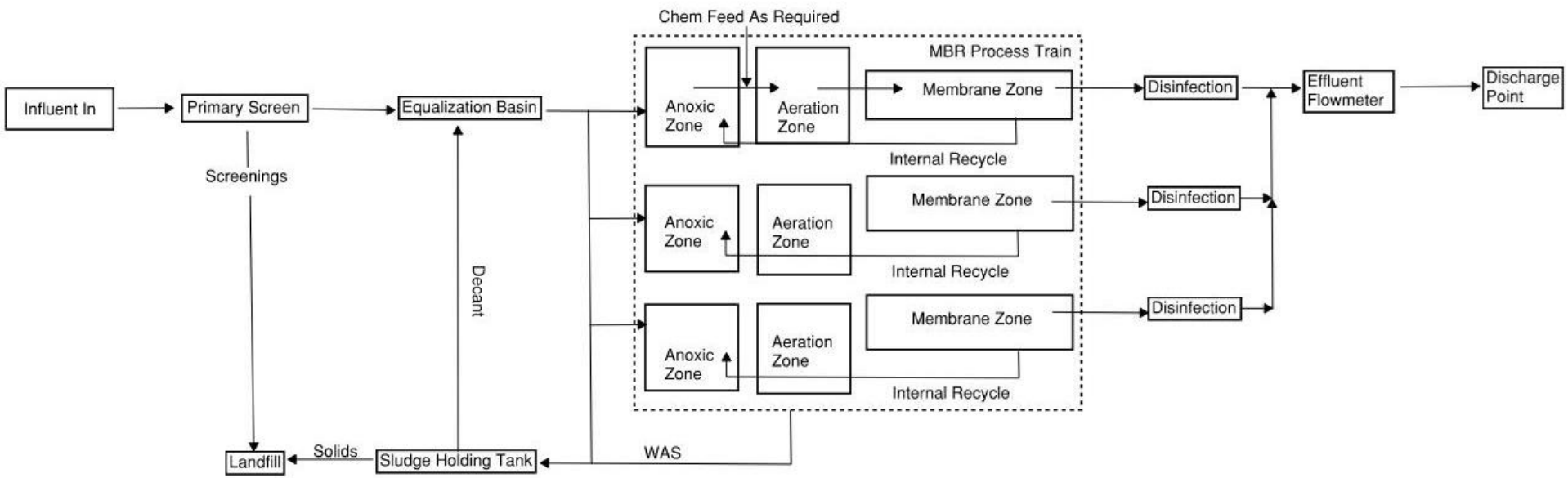
# Broken Cedar Ranch WWTF - Process Description

**Phase 2 – 300,000 gpd**



# Broken Cedar Ranch WWTF - Process Description

**Final Phase – 600,000 gpd**



# Broken Cedar Ranch WWTF - Process Description

## Treatment Process Description

Broken Cedar Ranch WWTF will be an MBR system consisting of several process trains. The system will have a primary screen, equalization tanks, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV or Chlorine disinfection. The design will be in accordance with Texas Administrative Code Title 30, Part 1: Texas Commission on Environmental Quality (TCEQ) Chapter 217 (Design Criteria for Domestic Wastewater Systems).

## Treatment Unit Sizing

### Phase 1 – 100,000 GPD

| | |
|---|---|
| Headworks with Screening | |
| Equalization Tank | (1) 12’ wide x 25’ long x 10.5’ SWD – 23,562 gals |
| Sludge Holding Tank | (1) 14’ dia x 18.5’ tall – 21,291 gallons |
| Process Units (MBR) | (2) 41’ x 10’ x 8.5’ SWD – 52,135 gallons |
| Chlorine Contact Chamber | (1) 10’ x 10’ x 8.5’ SWD – 6,358 gallons |

### Phase 2 – 300,000 GPD

| | |
|---|---|
| Headworks with Screening | |
| Equalization Tank | (3) 12’ wide x 25’ long x 10.5’ SWD – 70,686 gals |
| Sludge Holding Tank | (3) 14’ dia x 18.5’ tall – 63,873 gallons |
| Process Units (MBR) | (6) 41’ x 10’ x 8.5’ SWD – 156,405 gallons |
| Chlorine Contact Chamber | (3) 10’ x 10’ x 8.5’ SWD – 19,074 gallons |

### Final Phase – 600,000 GPD

| | |
|---|---|
| Headworks with Screening | |
| Equalization Tank | (6) 12’ wide x 25’ long x 10.5’ SWD – 141,372 gals |
| Sludge Holding Tank | (6) 14’ dia x 18.5’ tall – 127,746 gallons |
| Process Units (MBR) | (12) 41’ x 10’ x 8.5’ SWD – 312,810 gallons |
| Chlorine Contact Chamber | (6) 10’ x 10’ x 8.5’ SWD – 38,148 gallons |

# Broken Cedar Ranch WWTF - Design Calculations

**Phase 1**

| | | |
|---|---|---|
| Flow | 100,000 | gpd |
| 2 hr peak | 400,000 | gpd |

| | | |
|---|---|---|
| Equalization Sizing Minimum | | |
| 2.5Q for 2 hours | 20,833 | gal |
| Chlorine Sizing Minimum | | |
| 4Q for 20 min | 5,556 | gal |

Using 2% Flow for WAS Rate

| | | |
|---|---|---|
| WAS Rate | 2000 | gpd |
| Sludge Storage Days | 10 | days |
| Sludge Holding Minimum | 20000 | gal |

**Phase 2**

| | | |
|---|---|---|
| Flow | 300,000 | gpd |
| 2 hr peak | 1,200,000 | gpd |

| | | |
|---|---|---|
| Equalization Sizing Minimum | | |
| 2.5Q for 2 hours | 62,500 | gal |
| Chlorine Sizing Minimum | | |
| 4Q for 20 min | 16,667 | gal |

Using 2% Flow for WAS Rate

| | | |
|---|---|---|
| WAS Rate | 6000 | gpd |
| Sludge Storage Days | 10 | days |
| Sludge Holding Minimum | 60000 | gal |

**Final Phase**

| | | |
|---|---|---|
| Flow | 600,000 | gpd |
| 2 hr peak | 2,400,000 | gpd |

| | | |
|---|---|---|
| Equalization Sizing Minimum | | |
| 2.5Q for 2 hours | 125,000 | gal |
| Chlorine Sizing Minimum | | |
| 4Q for 20 min | 33,333 | gal |

Using 2% Flow for WAS Rate

| | | |
|---|---|---|
| WAS Rate | 12000 | gpd |
| Sludge Storage Days | 10 | days |
| Sludge Holding Minimum | 120000 | gal |

## Bioreactor Calculation

### 1. Design Calculation

**1.1 Influent (m3/day)** (gal/day)

| Items | unit | m3/day | gal/day |
|---|---|---|---|
| | Average | 2271 | 600,000 |
| | | | |
| | Design Flow | 2271 | 600,000 |

**1.2 Factors**

| Items | | | |
|---|---|---|---|
| | HRT | 19.0 | hr |
| | SRT | 25.0 | day |
| | C/N | 4.7 | |
| | C/P | 29.6 | |
| | Temp | 20.0 | ℃ |
| | Sludge return | 250 | % |

**1.3 Influent Quality**

| Items | BOD | $COD_{Mn}$ | SS | T-N | T-P | E.coli. | Remarks |
|---|---|---|---|---|---|---|---|
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Water quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55000 | |

**1.4 Influent and Effluent Water Quality**

| Items | BOD | $COD_{Mn}$ | SS | T-N | T-P | E.coli. | |
|---|---|---|---|---|---|---|---|
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Influent quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55,000 | |
| Effluent quality | 5.0 | 10.0 | 5.0 | 20.0 | 1.0 | 1.26 | |

**1.5 Bioreactor Volume**

| Items | Width | Length | Depth | Height | tank | Volume | HRT |
|---|---|---|---|---|---|---|---|
| | (mW) | (mL) | (mHe) | (mH) | (#) | ($m^3$) | (hr) |
| Anoxic | 2.4 | 12.0 | 2.2 | 2.3 | 2 | 124.1 | 7.9 |
| Oxic | 2.4 | 12.0 | 2.1 | 2.3 | 2 | 118.4 | 7.5 |
| MBR | 2.4 | 12.0 | 2.0 | 2.3 | 1 | 56.4 | 3.6 |
| Total | | | | | | 363.8 | 19.0 |

Note: If biorector volume sizes are above the volume calcauted by 30-40%, it will be okay.

**1.6 Sludge Production**

| Items | Sludge ($m^3$/day) | Water contents (%) |
|---|---|---|
| | 6.0 | 99.2 |

**1.7 Air Requirement**

| Items | | |
|---|---|---|
| | Oxic reactor ($m^3$/min) | 3.11 |
| | MBR ($m^3$/min) | 12.0 |

# Broken Cedar Ranch WWTF - Design Calculations

## 2 MASS BALANCE

(Q = 2271 m³/day) 600,000 GPD

Temp. : 20 °C
68 F

| Influent | | |
|---|---|---|
| Q | 2271 | |
| BOD | 350.0 | 132.5 |
| COD | 525.0 | 198.7 |
| SS | 300.0 | 113.6 |
| T-N | 70.0 | 26.5 |
| T-P | 9.0 | 3.4 |
| E.Coli | 55,000 | Count/ml |

| EQ Tank | | |
|---|---|---|
| Q | 2271 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55000 | Count/ml |

| Bioreactors | | |
|---|---|---|
| Q | 227 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55,000 | Count/ml |

| Factors | |
|---|---|
| MLSS | 5,800 |
| | 5,800 |
| | 8,000 |
| F/M | 0.06 |
| TEMP. | 20 |
| SRT | 42.6 |
| MLVSS | 0.69 |
| FLUX | 0.4 |

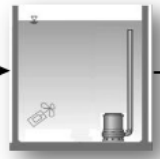
| Effluent | | |
|---|---|---|
| Q | 2271 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |

| Reuse | | |
|---|---|---|
| Q | 2271 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |

Influent

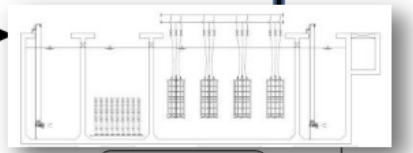
Drum Screen

| Drum Screen | |
|---|---|
| BOD | 10% |
| COD | 10% |
| SS | 30% |
| T-N | 5% |
| T-P | 5% |



EQ Tank

Aerated EQ



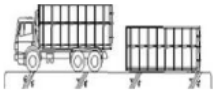
Bioreactors + Membrane

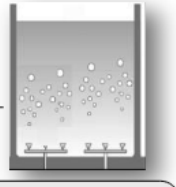
Sludge Return = 2.5 Q

Effluent

| Sludge | | |
|---|---|---|
| Q | 6.0 | |
| BOD | 4,567 | 27.4 |
| COD | 3,928 | 23.6 |
| SS | 8,000 | 48.0 |
| T-N | 664 | 4.0 |
| T-P | 478 | 2.9 |

| Bioreactors | |
|---|---|
| BOD | 98.4 |
| COD | 97.9 |
| SS | 97.6 |
| T-N | 69.9 |
| T-P | 88.3 |
| E.Coli | 100.0 |





Sludge Tank

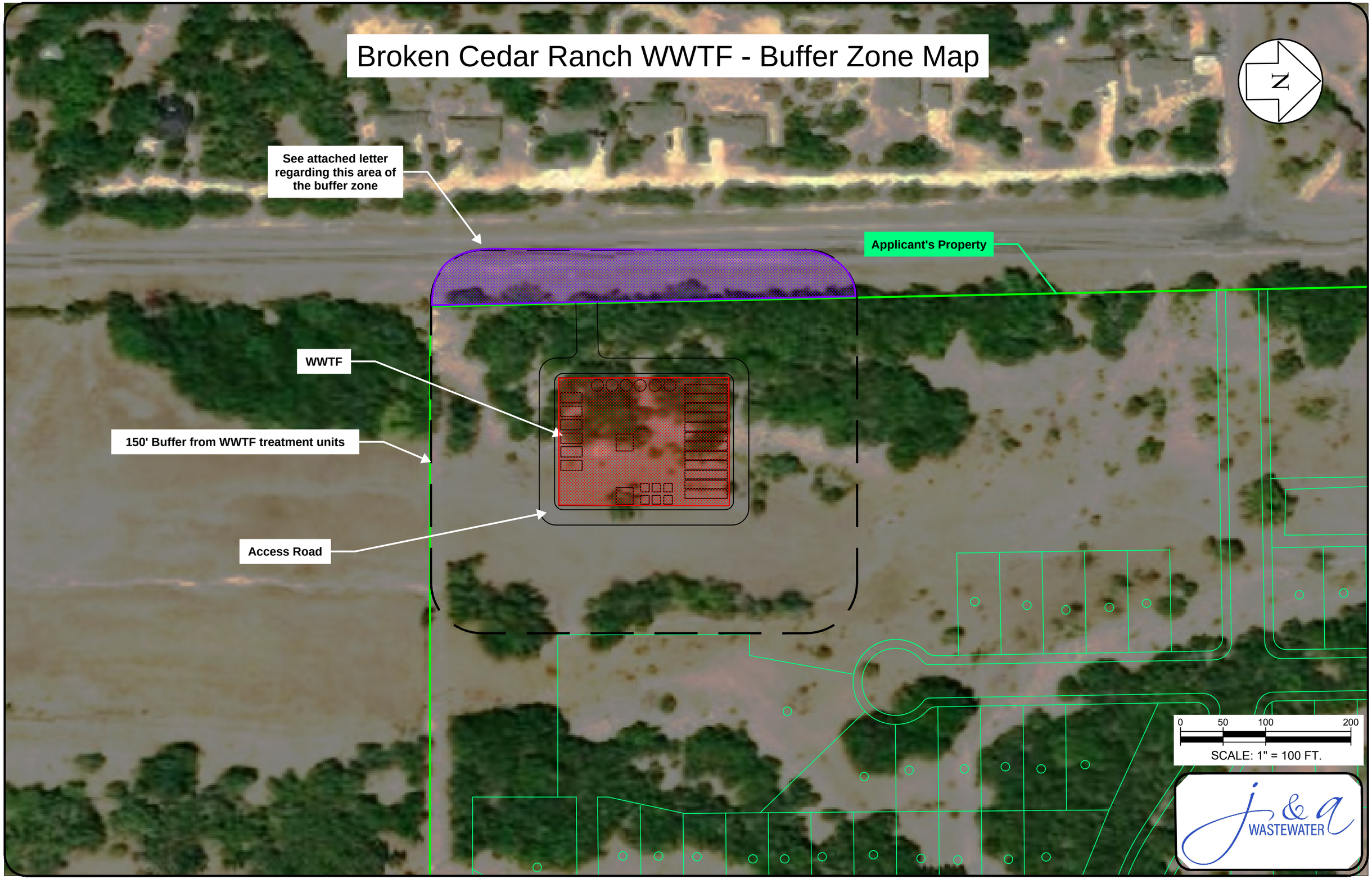
| Legend |
|---|
| Sewage |
| Sludge |

| Unit | |
|---|---|
| Q | m³/d |
| Con. | mg/L |
| Load | kg/day |

# Broken Cedar Ranch WWTF - Design Calculations

| Items | Ranges | | | Design Values | Unit |
|---|---|---|---|---|---|
| Anoxic/Oxic MLSS ($X_{TSR}$) | 4,000 | ~ | 9,500 | 5,800 | mg/L |
| Oxic MLSS ($X_{OX}$) | 6,000 | ~ | 12,000 | 8,000 | mg/L |
| MLVSS/MLSS($X_V$) | MLVSS | / | MLSS | 0.7 | |
| F/M ration | 0.01 | ~ | 0.30 | 0.06 | kgBOD/kgMLVSS·d |
| Sludge return ($X_{r1}$) | 50 | ~ | 400 | 250 | % |
| Sludge retention time (SRT) | 15 | ~ | 50 | 35.6 | day |
| Bio reactor temperature | 10 | ~ | 30 | 20 | °C |
| Bio reactor pH | 6.8 | ~ | 7.2 | 7.0 | |
| Dissolved Oxygen concentration (DO) | 2.0 | ~ | 5.0 | 2.0 | mg/L |
| Y(net), Sludge yield | 0.30 | ~ | 0.60 | 0.47 | $mgVSS/mgBOD_{rem}$ |
| b, Sludge decay coefficient | 0.05 | ~ | 0.30 | 0.15 | $day^{-1}$ |
| $\mu_{Nm}$, Max nitrifier production | 0.30 | ~ | 0.60 | 0.47 | $day^{-1}$ |
| $Y_N$(net), Nitrifier yield | 0.10 | ~ | 0.30 | 0.20 | $mgVSS/mgNH_4N_{rem}$ |
| $K_o$, $O_2$ Half saturation coefficient | 0.40 | ~ | 0.60 | 0.50 | $O_2$ mg/L |
| $K_N$, $NH_4$-N Half saturation coefficient | 0.20 | ~ | 5.00 | 0.74 | $NH_4$-N mg/L |
| Membrane Flux | Design | | | 0.40 | $m^3/m^2 \cdot d$ |
| | | | | 16.7 | LMH |
| | | | | 9.8 | GFD |
| SNR, Specific Nitrification Rate | Oxic | | | 2.70 | $mgNH_4N/gMLVSS \cdot hr$ |
| SDNR, Specific denitrification Rate | | | | 2.70 | $mgNO_3N/gMLVSS \cdot hr$ |
| SPUR | | | | 1.24 | mg P/gMLSS·hr |
| $BOD/P_{rel}$ | | | | 12.0 | P releasing |
| $BOD/No_x\text{-}N_{rem}$ | | | | 2.86 | Denitrification |
| N/VSS, Nitrogen % in Biomass | 5.00 | ~ | 12.0 | 12.0 | % |
| P/VSS, Phosphofus % in Biomass | 1.00 | ~ | 7.50 | 5.8 | P uptaking (%) |

# Broken Cedar Ranch WWTF - Buffer Zone Map

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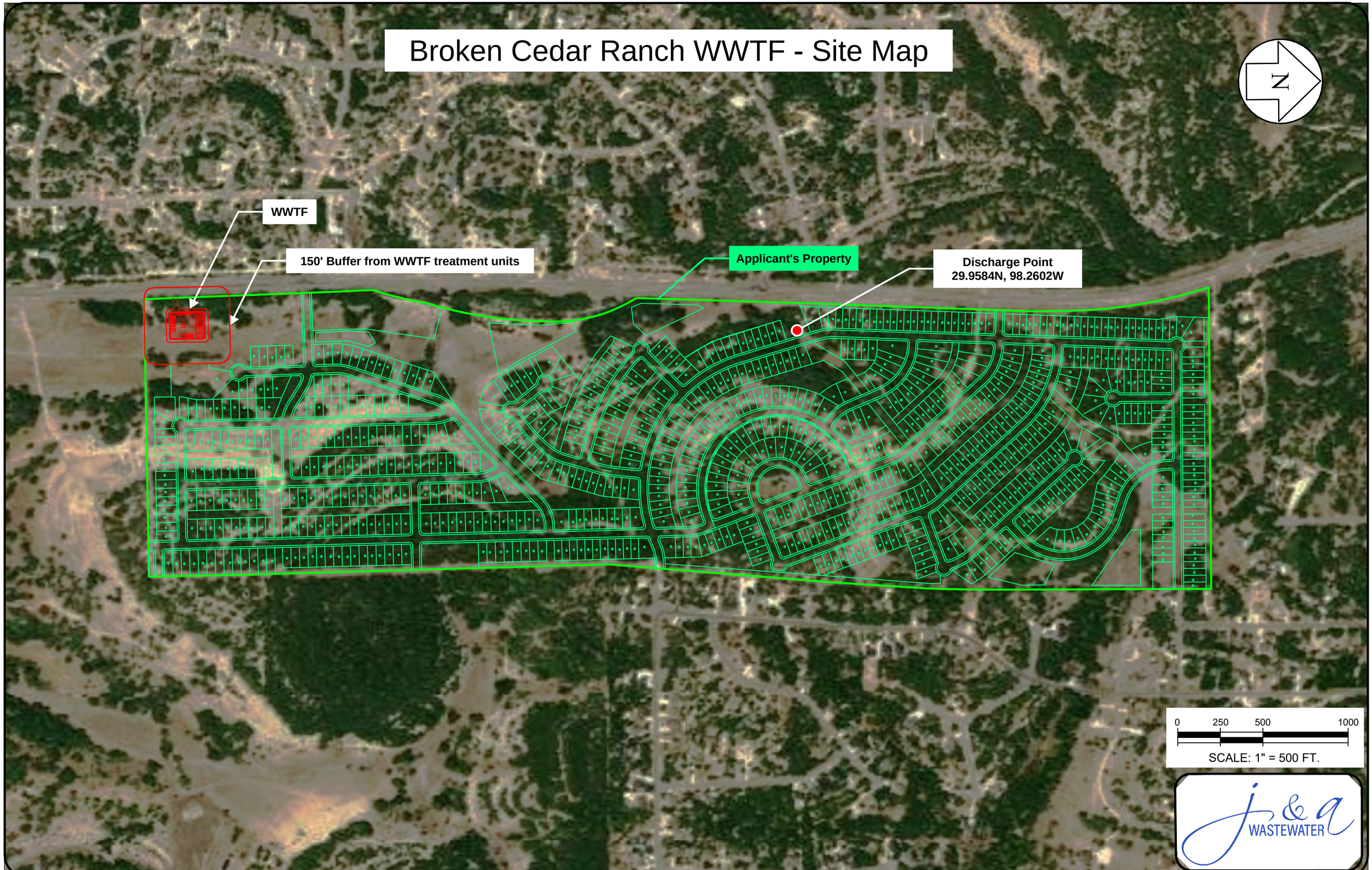
# Broken Cedar Ranch WWTF - Site Map

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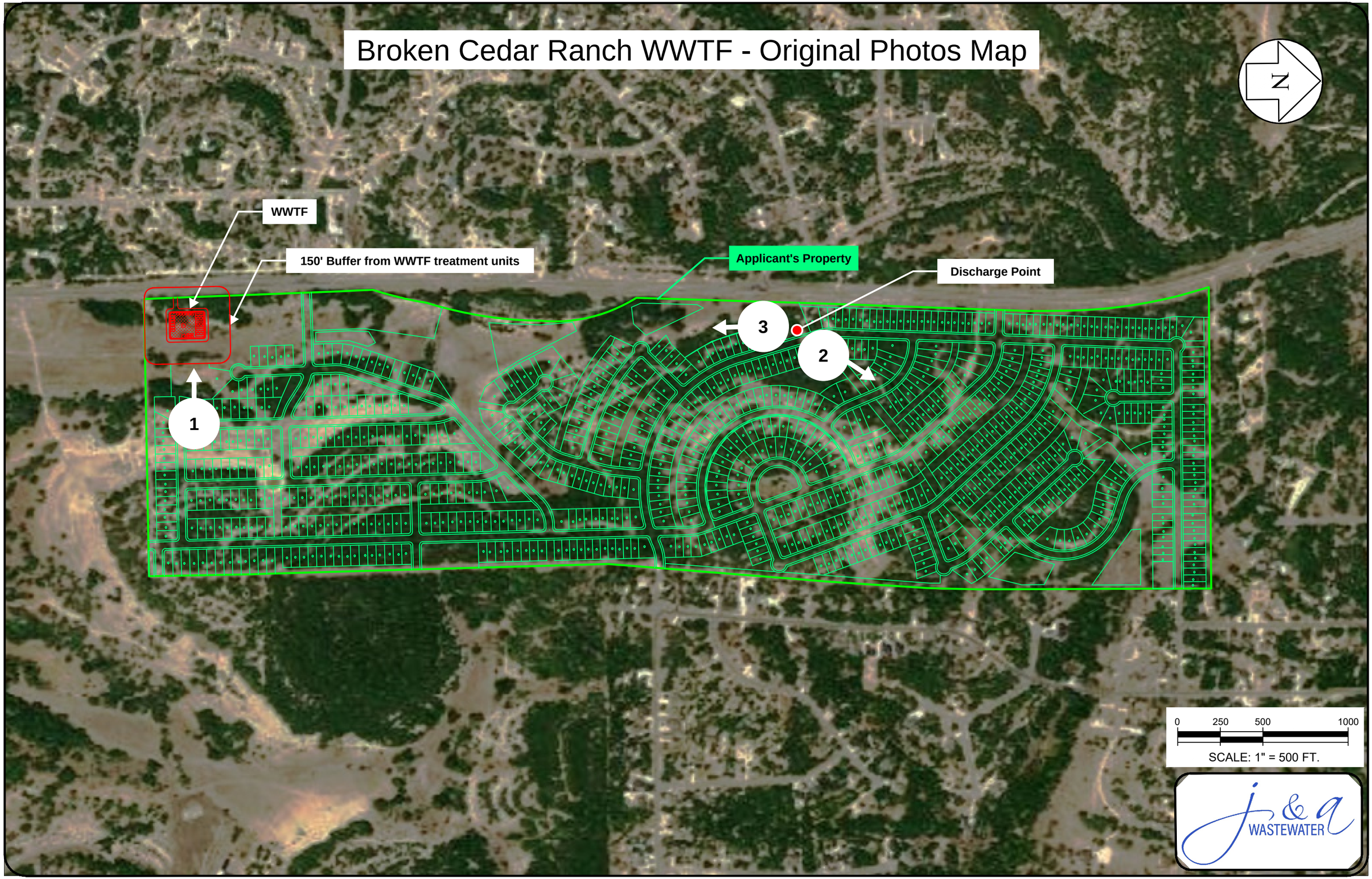
# Broken Cedar Ranch WWTF - Original Photos Map

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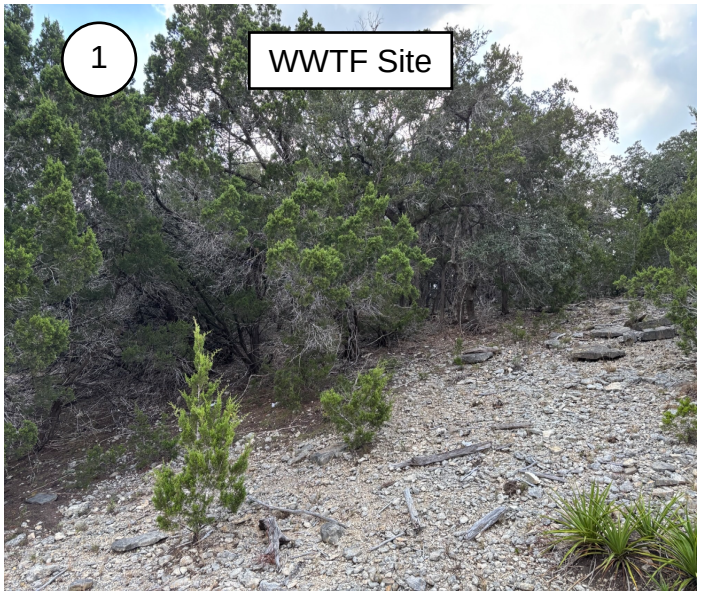
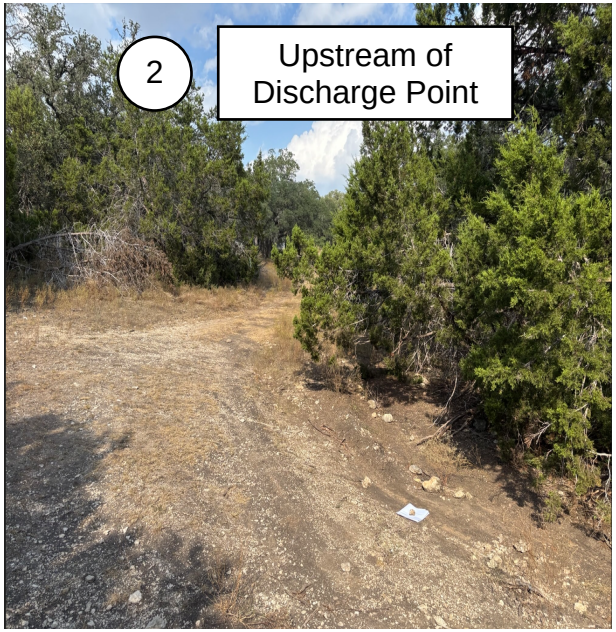
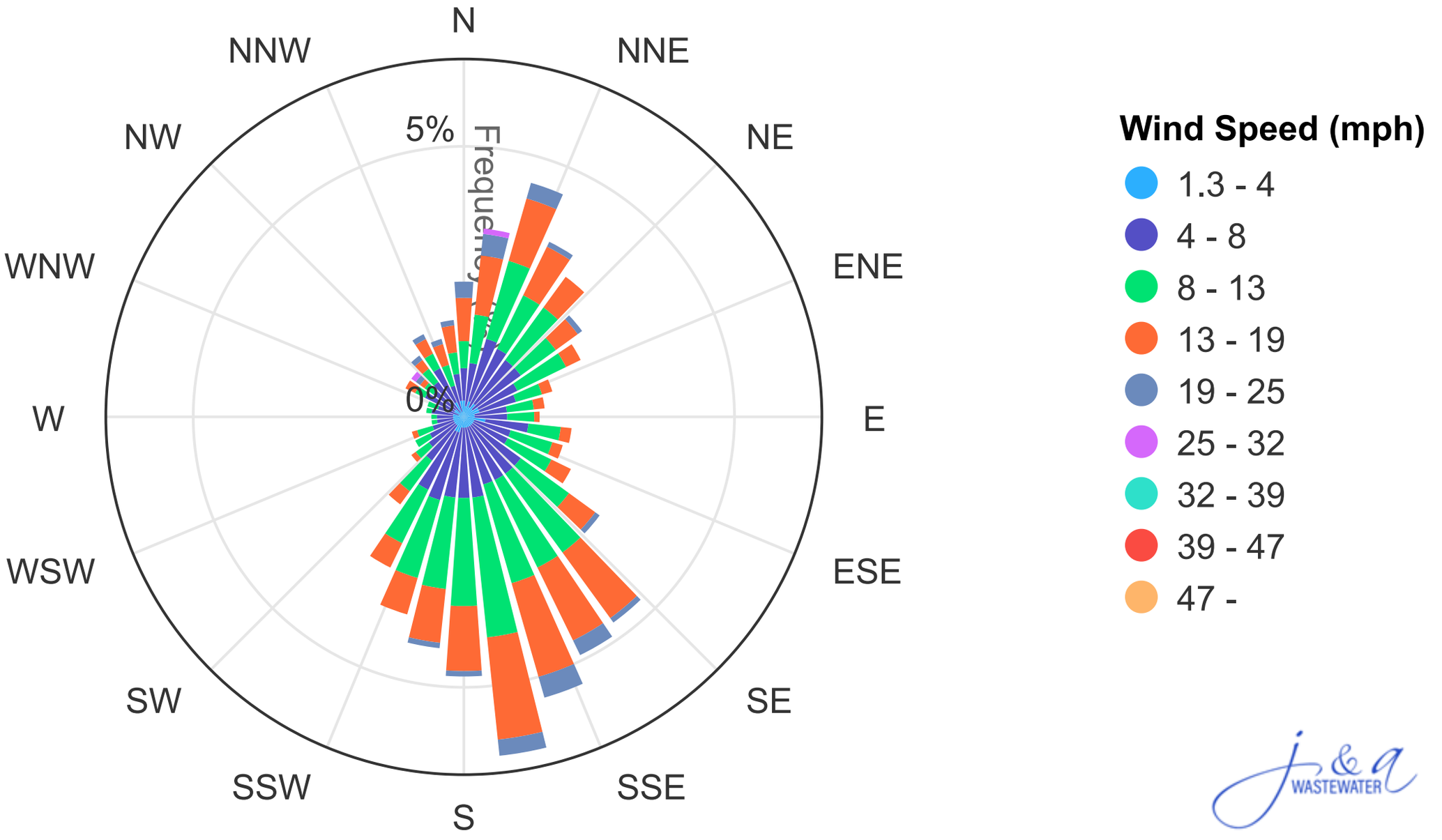
# Broken Cedar Ranch WWTF - Original Photos



# NEW BRAUNFELS MUNICIPAL AP (TX) Wind Rose

September 01, 2023 - September 01, 2024
Sub-Interval: January 1 - December 31, 0 - 24




Click and drag to zoom

# Broken Cedar Ranch WWTF – Solids Management Plan

The permit application includes three phases of flows as described below:

- Phase 1 = 0.100 mgd
- Phase 2 = 0.300 mgd
- Final Phase = 0.600 mgd

Estimated solids generation is based on the below listed criteria:

- Average Influent BOD = 350 mg/L
- Design Influent BOD = 350 mg/L
- Solids Generated = 0.98 Pound Solids per Pound of BOD applied
- Calculations are based on the average influent BOD, as stipulated in Chapter 217.250 for firm dewatering capacity.

(a) Operating range for the mixed liquor suspended solids in the treatment process based on design flow and projected actual flow at the facility.

| Phase # | Operating Range (mg/L) |
|---|---|
| Phase 1 | 8,000 – 12,000 |
| Phase 2 | 8,000 – 12,000 |
| Final Phase | 8,000 – 12,000 |

(b) Description of the procedure and method of solids removal from both wastewater and sludge treatment processes.

The sludge wasting pumps will convey sludge from the treatment basins to the sludge holding basin in final phase. The sludge wasting pumps will be operated manually by the operator. The sludge holding basins/tanks will be pumped as a semi-liquid onto a transport truck where it will be taken to a permitted landfill.

(c) Quantity of solids to be removed from the process and schedule for removal of solids designed to maintain an appropriate solids inventory.

Solids will be removed from the sludge holding basin on a 10-day rotation during final phase. Broken Cedar Ranch WWTF currently does not plan to process waste activated sludge from other wastewater treatment plants in liquid or cake form through its sludge processing facilities.

<u>Solids Generated at 100, 75, 50, and 25 percent Design Flow:</u>

Phase 1: 0.100 mgd
100% Flow: Solids Generation = (350 mg/l)(0.100 MGD)(8.34 lb/mg)(0.98) = 286 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.075 MGD)(8.34 lb/mg)(0.98) = 215 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.050 MGD)(8.34 lb/mg)(0.98) = 143 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.025 MGD)(8.34 lb/mg)(0.98) = 72 lb/day

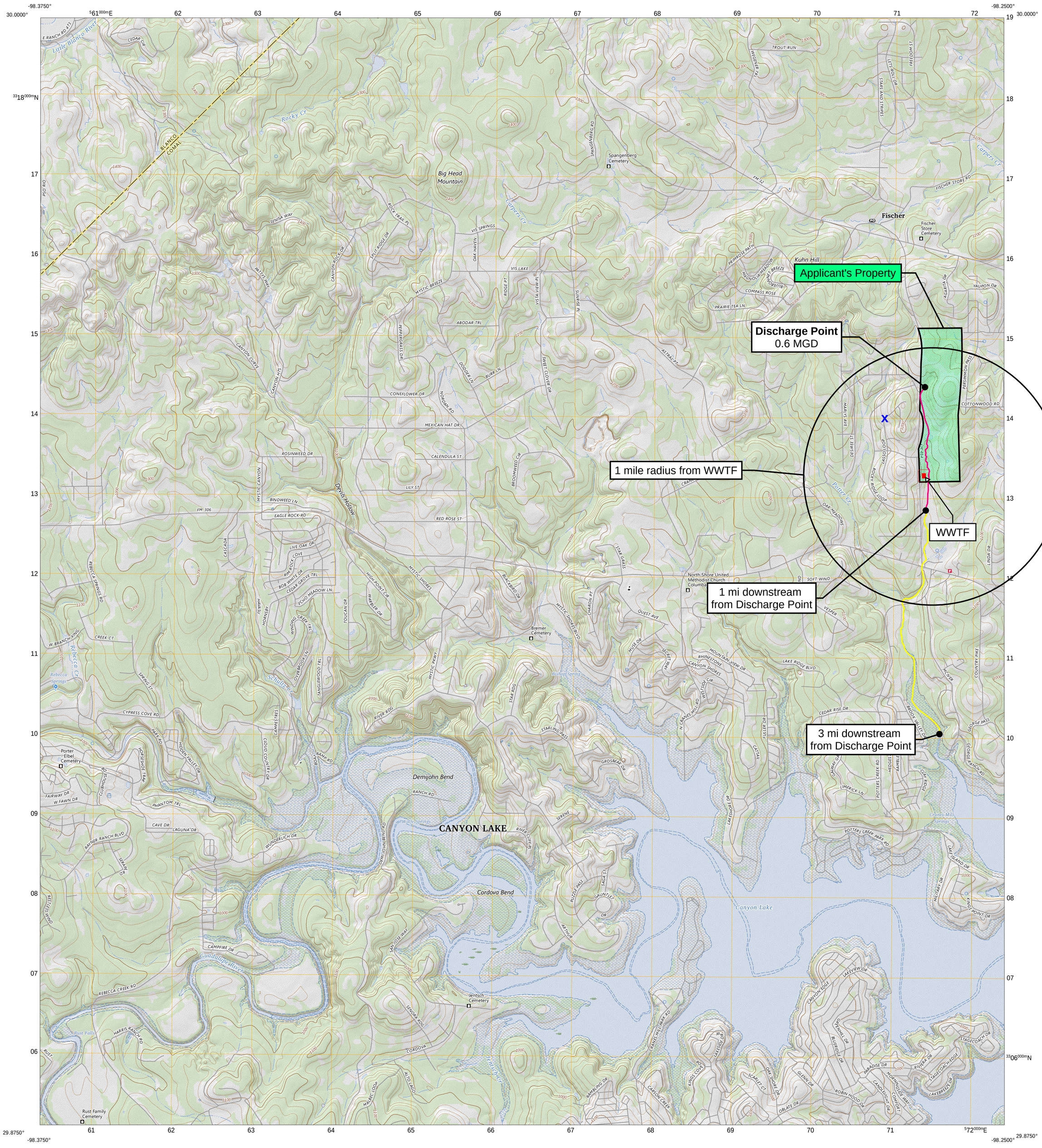
Phase 2: 0.300 mgd
100% Flow: Solids Generation = (350 mg/l)(0.300 MGD)(8.34 lb/mg)(0.98) = 858 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.225 MGD)(8.34 lb/mg)(0.98) = 644 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.150 MGD)(8.34 lb/mg)(0.98) = 429 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.075MGD)(8.34 lb/mg)(0.98) = 215 lb/day

Final Phase: 0.600 mgd
100% Flow: Solids Generation = (350 mg/l)(0.600 MGD)(8.34 lb/mg)(0.98) = 1,716 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.450 MGD)(8.34 lb/mg)(0.98) = 1,287 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.300 MGD)(8.34 lb/mg)(0.98) = 858 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.150 MGD)(8.34 lb/mg)(0.98) = 429 lb/day

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

# Flora WWTF - SPIF Map

FISCHER QUADRANGLE
TEXAS
7.5-MINUTE TOPO




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

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

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Learn About The National Map: https://nationalmap.gov

MN
GN
0°21′
6 MILS
3°47′
67 MILS

UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000

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

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

| | | |
|---|---|---|
| Blanco | Payton | Rough Hollow |
| Spring Branch | Fischer | Devils Backbone |
| Anhalt | Smithson Valley | Sattler |

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

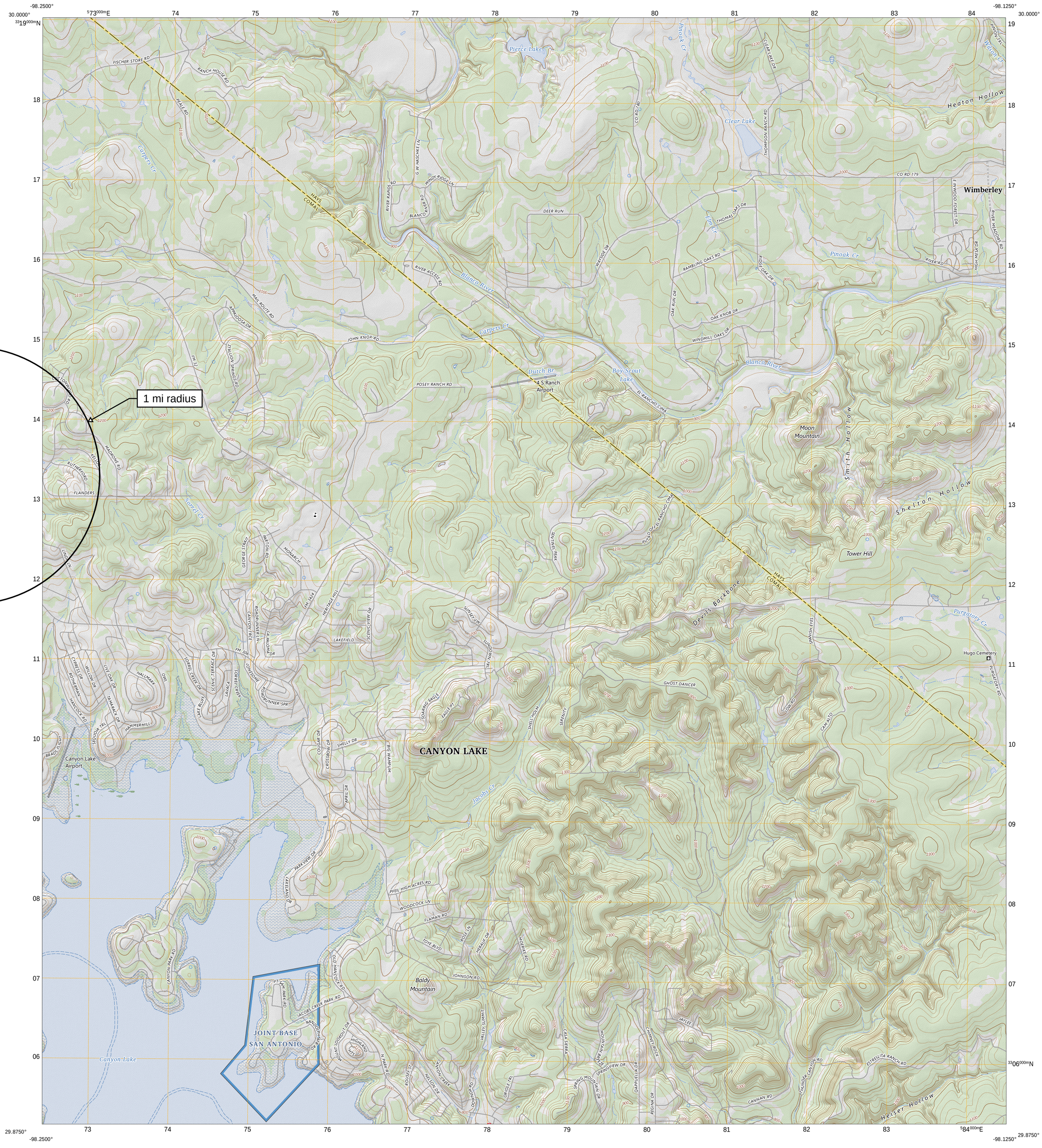
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

FISCHER, TX
2024

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

# Flora WWTF - SPIF Map

DEVILS BACKBONE QUADRANGLE
TEXAS
7.5-MINUTE TOPO

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MN
GN
0°24′
7 MILS
3°43′
66 MILS

UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000

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

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

| | | |
|---|---|---|
| Payton | Rough Hollow | Driftwood |
| Fischer | Devils Backbone | Wimberley |
| Smithson Valley | Sattler | Hunter |

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

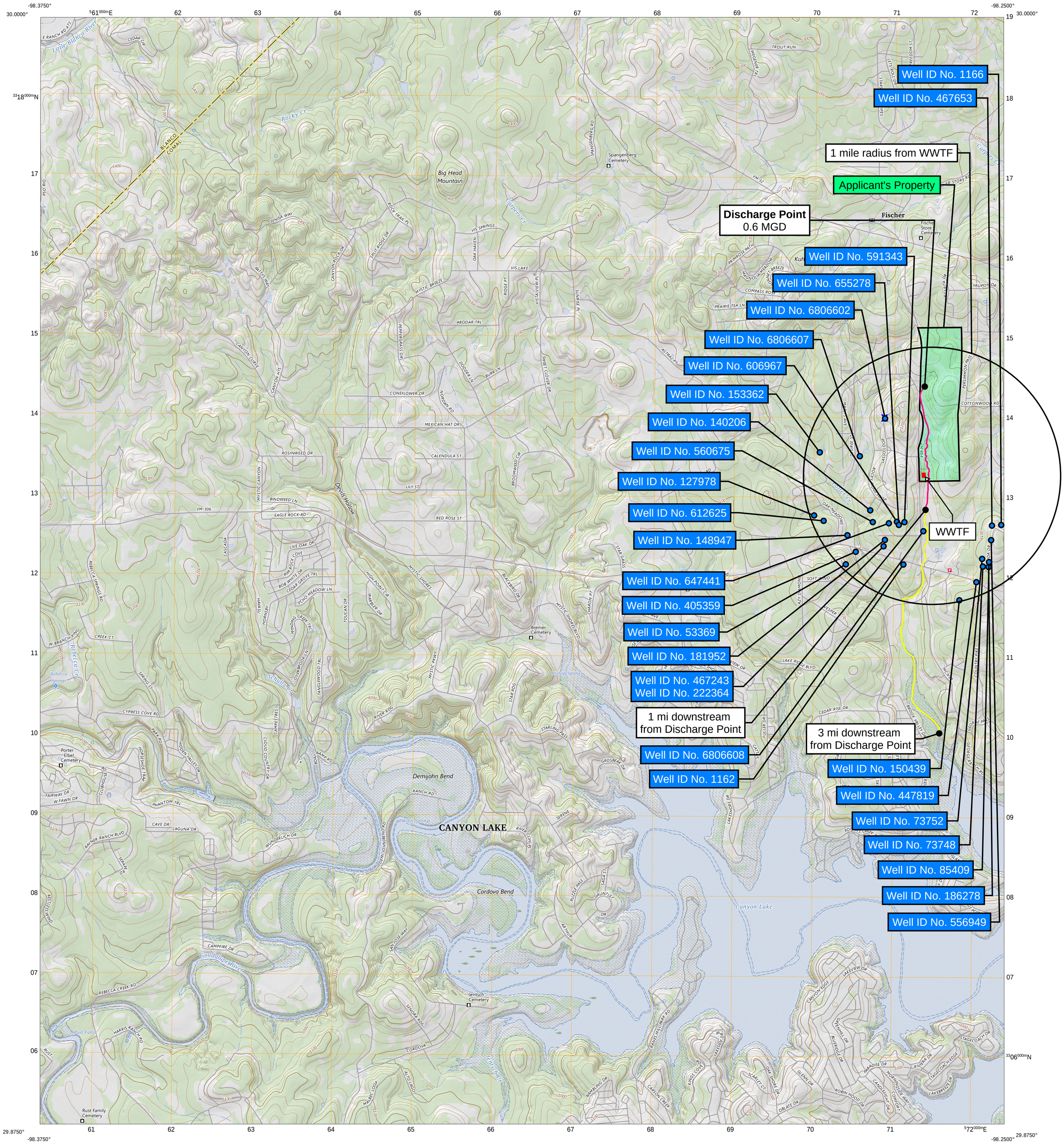
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

DEVILS BACKBONE, TX
2024

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

# Flora WWTF - USGS Map

FISCHER QUADRANGLE
TEXAS
7.5-MINUTE TOPO




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

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov

MN
GN
0°21′
6 MILS
3°47′
67 MILS

UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

SCALE 1:24 000

KILOMETERS: 1 0.5 0 1 2
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FEET: 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

| | | |
|---|---|---|
| Blanco | Payton | Rough Hollow |
| Spring Branch | Fischer | Devils Backbone |
| Anhalt | Smithson Valley | Sattler |

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

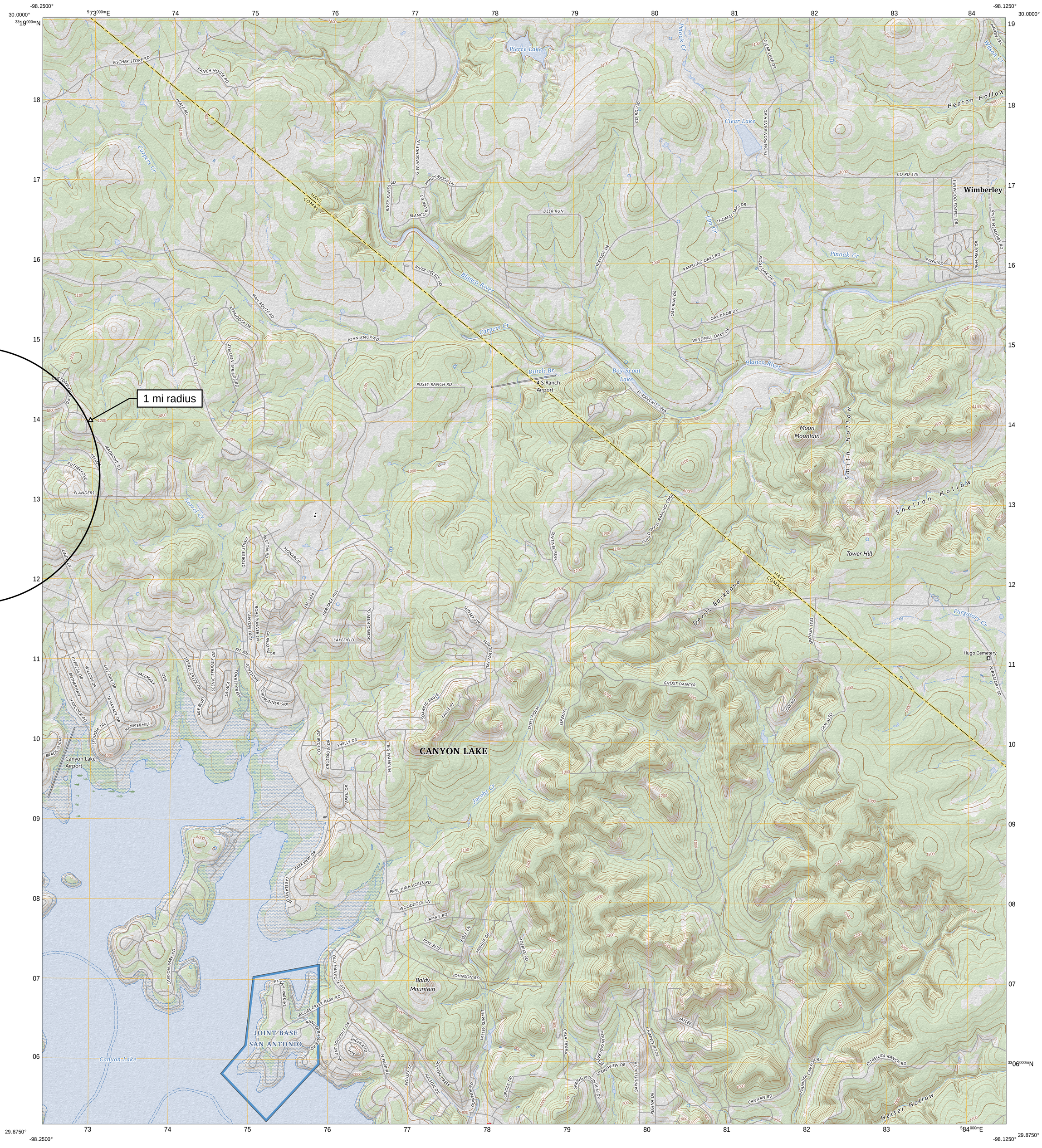
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

FISCHER, TX
2024

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

# Flora WWTF - USGS Map

DEVILS BACKBONE QUADRANGLE
TEXAS
7.5-MINUTE TOPO




Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
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| Smithson Valley | Sattler | Hunter |

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ROAD CLASSIFICATION

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

DEVILS BACKBONE, TX

2024

## Leah Whallon

**From:** Janela Revilla <jrevilla@jawastewater.com>
**Sent:** Friday, November 15, 2024 4:47 PM
**To:** Leah Whallon
**Cc:** Jamie Miller
**Subject:** Re: Application for Proposed Permit No. WQ0016660001; Lennar Homes of Texas Land and Construction, Ltd.; Broken Cedar Ranch WWTF
**Attachments:** 2024.11.15_NOD_Response.pdf; Mailing Labels.docx; Municipal Discharge New Spanish NORI.docx

**Follow Up Flag:** Follow up
**Flag Status:** Flagged

Hi Leah,

I've attached our response and the Word document you requested.

Let me know if there is anything else you need and have a great weekend!

Thanks,
Janela Revilla

Janela Revilla
Project Engineer
JA Wastewater, LLC
(737) 864-3476
jrevilla@jawastewater.com

---

**From:** Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
**Sent:** Friday, November 15, 2024 3:39 PM
**To:** Janela Revilla <jrevilla@jawastewater.com>
**Cc:** Jamie Miller <jmiller@jawastewater.com>
**Subject:** Application for Proposed Permit No. WQ0016660001; Lennar Homes of Texas Land and Construction, Ltd.; Broken Cedar Ranch WWTF

Good Afternoon,

Please see the attached Notice of Deficiency letter dated November 15, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by November 29, 2024.

Please let me know if you have any questions.

Thank you,

**Leah Whallon**
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

Jon Niermann, *Chairman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

November 15, 2024

Ms. Janela Revilla
Project Engineer
JA Wastewater, LLC
5765 Fig Way
Arvada, Colorado 80002

RE: Application for Proposed Permit No.: WQ0016660001 (EPA I.D. No. TX0146919)
Applicant Names: Lennar Homes of Texas Land and Construction, Ltd. (CN602412207); Bobbie J. Neff (CN606322410); Jeanette R. Morris (CN606322428)
Site Name: Broken Cedar Ranch WWTF (RN112078076)
Type of Application: New

**VIA EMAIL**

Dear Ms. Revilla:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. Administrative Report 1.1, Section 1, Item C
   Please provide the affected landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.

   Please see attached mailing label Word document.

2. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

   APPLICATION. Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016660001 (EPA I.D. No. TX0146919) to authorize wastewater at a volume not to exceed a daily average flow of 600,000 gallons per day. The domestic wastewater treatment facility will be located approximately 750 feet southeast of the intersection of Rocky Ranch Road and Farm-to-Market Road 484, near Fischer, in Comal County, Texas 78133. The discharge route will be from the plant site to an unnamed tributary, thence to Potter Creek, thence to Canyon Lake (pending RWA). TCEQ received this application on November 6, 2024. The permit application will be available for viewing and copying at Mammen Family Public Library, 131 Bulverde Crossing, Bulverde, in Comal County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.2603,29.9485&level=18

Further information may also be obtained from Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff and Jeanette R. Morris at the address stated above or by calling Ms. Janela Revilla, JA Wastewater, LLC, at 737-864-3476.

This is correct.

3. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

   Please see attached Spanish translation Word document.

Please submit the complete response, addressed to my attention by November 29, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-0084 or by email at leah.whallon@tceq.texas.gov

Sincerely,

Leah Whallon

Leah Whallon
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

lcw

Enclosure
Municipal Discharge New Spanish NORI

cc: Ms. Jamie Miller, P.E., President, JA Wastewater, LLC, 5765 Fig Way, Arvada, Colorado 80002

MOORE JOHN C & PATRICIA G
PO BOX 361 BLANCO
BLANCO TX 78606

MILLER MARY G
1430 PERSIMMON PASS
FISCHER TX 78649

GENTRY JENNIFER
1420 PERSIMMON PASS
FISCHER TX 78648

HUTCHINSON HARRY T JR & TWILA R
1350 PERSIMMON PASS
FISCHER TX 78647

RODRIGUEZ PETRA
283 FIELDWOOD DR UNIT C
BUDA TX 78610

RUCKMAN LAWRENCE J
PO BOX 134 WIMBERLEY
WIMBERLEY TX 78676

OLVERA MOSES H JR & DANA M MARLER
1270 PERSIMMON PASS
FISCHER TX 78644

ROUBERT ENRIQUE V
1250 PERSIMMON PASS
FISCHER TX 78643

MINER JEFFREY E
1210 PERSIMMON PASS
FISCHER TX 78642

BATEY RANDY C & LINDA M
189 CALM WATER
CANYON LAKE TX 78133

YANDELL CLIFFORD J & CRYSTAL
1170 PERSIMMON PASS
FISCHER TX 78640

DEADY CLARK & AMANDA
1130 PERSIMMON PASS
FISCHER TX 78639

TROUT JAMES W II & CYNTHIA
1090 PERSIMMON PASS
FISCHER TX 78638

ORTIZ JESSE & JUDY
1043 MALTESE GDN
SAN ANTONIO TX 78260

SAUCEDA KEVIN R & BRENDA J
1050 PERSIMMON PASS
FISCHER TX 78636

IBARRA J A & MARIA N
10021 APACHE VLG
FISCHER TX 78635

ALEXANDER SHANNON M
1010 PERSIMMON PASS
FISCHER TX 78634

LE ANN G
801 MORNINGSIDE DR
SAN ANTONIO TX 78209

MOSELEY BEVERLY
1220 IRON WOOD RD
FISCHER TX 78631

PATTERSON JAMES III & HEATHER L BURCH-PATTERSON
1221 IRONWOOD RD
FISCHER TX 78630

RAMEY MILENA S & THOMAS W III
1243 IRON WOOD RD
FISCHER TX 78629

BJORKLUND KARYN
4830 LANETT DR
PENSACOLA FL 32526

HOLDEN-GARCIA AFTEN S & JAVIER G GARCIA
1231 FIR LN
FISCHER TX 78627

SKINNER TERRY & CHRISTINE
1176 LOG CABIN LN
FISCHER TX 78626

MARPLE KENNETH
810 POSSUM TREE
FISCHER TX 78625

MARPLE KEITH A & TERESA C
810 POSSUM TREE
FISCHER TX 78624

BURDGE FAMILY RVCBL TRST
1645 AGARITA DR
FISCHER TX 78623

EMBODY JANE
PO BOX 173
FISCHER TX 78623

HUGHES KIMBERLY
1670 AGARITA DR
FISCHER TX 78623

EMBODY JOHN W & BRENDA
PO BOX 111
FISCHER TX 78623

ENGELHARDT JOHN H FAM LTD PRTNRSHP
PO BOX 187
FISCHER TX 78623

TAMEZ GENARD
2751 FM 484
CANYON LAKE TX 78133

TAMEZ MARIA
2681 FM 484
CANYON LAKE TX 78133

YIR PERVIN & UMIT YIR
4515 SHAVANO COURT
SAN ANTONIO TX 78230

CROW THOMAS F & WANDA K
59 N MESQUITE DR
VICTORIA TX 77905

DELLINGER DANIEL A & AMY E
511 LASSO LOOP
CANYON LAKE TX 78133

FRANK JASON M
2405 FM 484
CANYON LAKE TX 78133

ROCKY CREEK RANCH INC
PO BOX 2202
CANYON LAKE TX 78133

LAMBERT HEATHER D & RYAN D
2531 ROBINHOOD DRIVE
CANYON LAKE TX 78133

SOUTHALL JANET M & BRIAN D
454 HWY 751
CHURCH POINT LA 70525

MURPHY HOME BUYERS LLC
11515 IMPRESSIVE WAY
SAN ANTONIO TX 78254

CORTEZ ROBERTO & ERLINDA
135 ROCKY RNCH
CANYON LAKE TX 78133

BRYNER LIVELY
245 LEGACY RDG
CANYON LAKE TX 78133

MALDONADO GUSTAVO & EVELYN V
513 BARRETT PL
SAN ANTONIO TX 78255

BURKHART ERIC
237 LEGACY RDG
CANYON LAKE TX 78133

FLORES MARIA O A & MARK A
530 TIDEWIND ST
SAN ANTONIO TX 78221

HALL TERRY T & KRISTY L
229 LEGACY RDG
CANYON LAKE TX 78133

BRNICKY THOMAS & LELA
225 LEGACY RIDGE
CANYON LAKE TX 78133

STAYTON JODI L & DARREN R
221 LEGACY RDG
CANYON LAKE TX 78133

LANGLEY JANIE D
217 LEGCY RIDGE
CANYON LAKE TX 78133

ROCKY CREEK RANCH INC
PO BOX 2202
CANYON LAKE TX 78133

MACHA FAMILY TRUT 06-20-2024
TR 1610 FM 484
CANYON LAKE TX 78133

ARMSTRONG CYNTHIA ANN
21660 FM 306
CANYON LAKE TX 78134

# 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**

**PERMISO PROPUESTO NO. WQ00_____**

**SOLICITUD.** Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris, 5505 Waterford District Drive, Miami, Florida 33126, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016660001 (EPA I.D. No. TX 0146919) 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 600,000 galones por día. La planta está ubicada aproximadamente 750 pies al sureste del intersección de Rocky Ranch Road y Farm-to-Market Road 484, cerca de Fischer, en el condado de Comal, Texas 78133. La ruta de descarga es del sitio de la planta a un afluente sin nombre, de allí a Potter Creek, desde allí hasta Canyon Lake (pendiente de RWA). La TCEQ recibió esta solicitud el 6 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Mammen Family Public Library, 131 Bulverde Crossing, Bulverde, en el condado de Comal, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

*[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.]* El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

**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.**

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

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

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

También se puede obtener información adicional del Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris a la dirección indicada arriba o llamando a Janela Revilla al 737-864-3476.

Fecha de emisión _____ *[Date notice issued]*

TPDES PERMIT NO. WQ0016660001
*[For TCEQ office use only - EPA I.D. No. TX0146919]*

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

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

Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris

whose mailing address is

5505 Waterford District Drive
Miami, Florida 33126

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

located approximately 750 feet southeast of the intersection of Rocky Ranch Road and Farm-to-Market Road 484, in Comal County, Texas 78133

to an unnamed tributary, thence to Potter Creek, thence to Canyon Lake in Segment No. 1805 of the Guadalupe 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

INTERIM I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 0.30 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.10 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 278 gallons per minute.

| Effluent Characteristic | Discharge Limitations | | | | Min. Self-Monitoring Requirements | |
|---|---|---|---|---|---|---|
| | Daily Avg mg/l (lbs/day) | 7-day Avg mg/l | Daily Max mg/l | Single Grab mg/l | Report Daily Avg. & Max. Single Grab Measurement Frequency | Sample Type |
| Flow, MGD | Report | N/A | Report | N/A | Continuous | Totalizing Meter |
| Carbonaceous Biochemical Oxygen Demand (5-day) | 5 (4.2) | 10 | 20 | 30 | One/week | Grab |
| Total Suspended Solids | 5 (4.2) | 10 | 20 | 30 | One/week | Grab |
| Ammonia Nitrogen | 2 (1.7) | 5 | 10 | 15 | One/week | Grab |
| Total Phosphorus | 1 (0.83) | 2 | 4 | 6 | One/week | Grab |
| *E. coli*, colony-forming units or most probable number per 100 ml | 126 | N/A | N/A | 399 | Five/week*<br>One/month** | Grab |

2. If the permittee utilizes an Ultraviolet Light (UV) system for disinfection purposes, an equivalent method of disinfection may be substituted only with prior approval of the Executive Director.*

3. If the permittee utilizes chlorine for disinfection purposes, the effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored five times per week by grab sample. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.**

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

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

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

7. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored once per week by grab sample.

INTERIM II EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the completion of expansion to the 0.30 million gallons per day (MGD) facility and lasting through the completion of expansion to the 0.60 MGD facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.30 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 833 gallons per minute.

| Effluent Characteristic | Discharge Limitations | | | | Min. Self-Monitoring Requirements | |
|---|---|---|---|---|---|---|
| | Daily Avg mg/l (lbs/day) | 7-day Avg mg/l | Daily Max mg/l | Single Grab mg/l | Report Daily Avg. & Max. Single Grab Measurement Frequency | Sample Type |
| Flow, MGD | Report | N/A | Report | N/A | Continuous | Totalizing Meter |
| Carbonaceous Biochemical Oxygen Demand (5-day) | 5 (13) | 10 | 20 | 30 | One/week | Grab |
| Total Suspended Solids | 5 (13) | 10 | 20 | 30 | One/week | Grab |
| Ammonia Nitrogen | 2 (5.0) | 5 | 10 | 15 | One/week | Grab |
| Total Phosphorus | 0.3 (0.75) | 0.6 | 1.2 | 1.8 | One/week | Grab |
| *E. coli*, colony-forming units or most probable number per 100 ml | 126 | N/A | N/A | 399 | Five/week*<br>One/month** | Grab |

2. If the permittee utilizes an Ultraviolet Light (UV) system for disinfection purposes, an equivalent method of disinfection may be substituted only with prior approval of the Executive Director.*

3. If the permittee utilizes chlorine for disinfection purposes, the effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on peak flow), and shall be monitored five times per week by grab sample at each chlorine contact chamber. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.**

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

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

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

7. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored once per week by grab sample.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Outfall Number 001

1. During the period beginning upon the completion of expansion to the 0.60 million gallons per day (MGD) facility and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.6 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 1,667 gallons per minute.

| Effluent Characteristic | Discharge Limitations | | | | Min. Self-Monitoring Requirements | |
|---|---|---|---|---|---|---|
| | Daily Avg mg/l (lbs/day) | 7-day Avg mg/l | Daily Max mg/l | Single Grab mg/l | Report Daily Avg. & Daily Max. Measurement Frequency | Sample Type |
| Flow, MGD | Report | N/A | Report | N/A | Continuous | Totalizing Meter |
| Carbonaceous Biochemical Oxygen Demand (5-day) | 5 (25) | 10 | 20 | 30 | One/week | Composite |
| Total Suspended Solids | 5 (25) | 10 | 20 | 30 | One/week | Composite |
| Ammonia Nitrogen | 2 (10) | 5 | 10 | 15 | One/week | Composite |
| Total Phosphorus | 0.15 (0.75) | 0.3 | 0.6 | 0.9 | One/week | Composite |
| *E. coli*, colony-forming units or most probable number per 100 ml | 126 | N/A | 399 | N/A | Daily* Two/month** | Grab |

2. If the permittee utilizes an Ultraviolet Light (UV) system for disinfection purposes, an equivalent method of disinfection may be substituted only with prior approval of the Executive Director.*

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

4. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored twice per month by grab sample.

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

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

7. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored once per week by grab sample.

**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 use or biosolids 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 or biosolids only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

## SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

### A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

### B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in 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 13) 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 must submit this annual report by September 30th of each year, 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 13) 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 is incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

## C. Monitoring Requirements

| | |
|---|---|
| Toxicity Characteristic Leaching Procedure (TCLP) Test | - once during the term of this permit |
| PCBs | - once during the term of this permit |

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 FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS 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 biosolids enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A biosolids 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 <u>five years</u>. 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 is 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 must submit this annual report by September 30th of each year, 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 13) 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 or biosolids meets the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge or biosolids 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 once during the term of this permit 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 13) 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 13) and the Enforcement Division (MC 224) of the by September 30th 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 13) 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 or biosolids 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 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 13) 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.

**OTHER REQUIREMENTS**

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

   This Category C facility must be operated by a chief operator or an operator holding a Class C 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. On November 6, 2024, the permittee submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The buffer zone is being met by right of way easement (road) on the west portion of the buffer zone. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). See Attachment A.

4. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

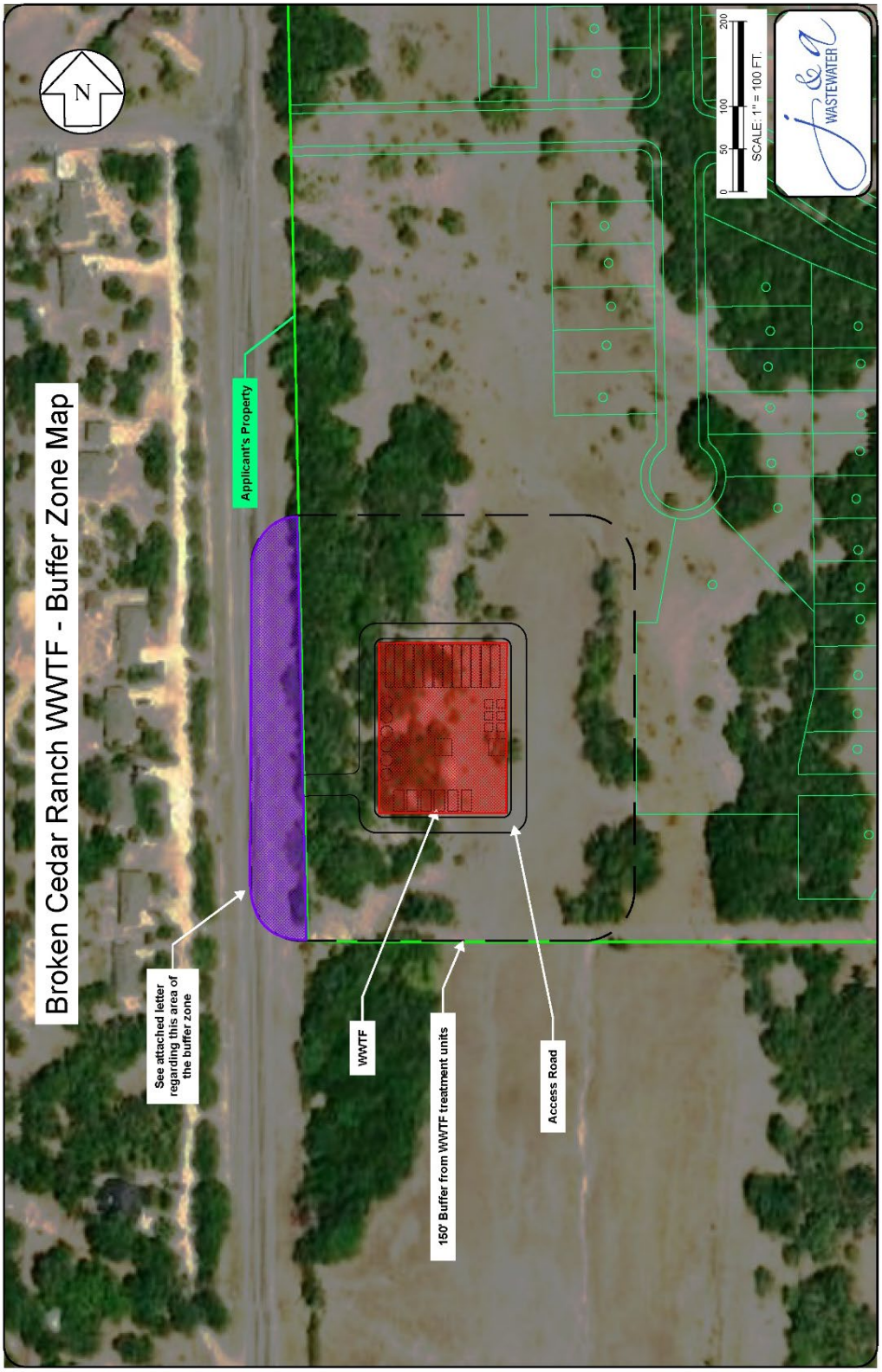
5. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ 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/month may be reduced to one/quarter for chlorination or five/week may be reduced to three/week for UV disinfection in the Interim I and II phases and two/month may be reduced to one/month for chlorination or daily may be reduced to five/week in the Final phase. **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.

6. Prior to construction of the Interim I, Interim II, and Final phases, the permittee shall submit to the TCEQ Domestic Wastewater Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Domestic

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

7. Reporting requirements according to 30 TAC §§ 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge from the facility described by this permit, whichever occurs first. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 13) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to plant startup or anticipated discharge, whichever occurs first, and prior to completion of each additional phase on Notification of Completion Form 20007.

**Attachment A**
**TCEQ WQ0016660001**
**Buffer Zone Map**



**STATEMENT OF BASIS/TECHNICAL SUMMARY**
**AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION**

DESCRIPTION OF APPLICATION

| | |
|---|---|
| Applicant: | Lennar Homes of Texas Land and Construction, Ltd., Bobbie J. Neff, and Jeanette R. Morris;<br>Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016660001, EPA I.D. No. TX0146919 |
| Regulated Activity: | Domestic Wastewater Permit |
| Type of Application: | New Permit |
| Request: | New Permit |
| Authority: | Federal Clean Water Act (CWA) § 402; Texas Water Code § 26.027; 30 Texas Administrative Code (TAC) Chapters 30, 305, 307, 309, 312, and 319; Commission policies; and United States Environmental Protection Agency (EPA) guidelines. |

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**.

REASON FOR PROJECT PROPOSED

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit to authorize the discharge of treated domestic wastewater at a daily average flow not to exceed 0.10 million gallons per day (MGD) in the Interim I phase, a daily average flow not to exceed 0.30 MGD in the Interim II phase, and a daily average flow not to exceed 0.6 MGD in the Final phase. The proposed wastewater treatment facility will serve the Broken Cedar Ranch Development, a new subdivision in Comal County, Texas.

PROJECT DESCRIPTION AND LOCATION

The Broken Cedar Ranch Wastewater Treatment Facility will be an Membrane Bioreactor (MBR) system consisting of several process trains. Treatment units in the Interim I phase will include a primary screen, an equalization tank, a sludge holding tank, two MBR process units, and a chlorine contact chamber or ultraviolet light (UV) disinfection system. Treatment units in the Interim II phase will include a primary screen, three equalization tanks, three sludge holding tanks, six MBR process units, and three chlorine contact chambers or UV disinfection system. Treatment units in the Final phase will include a primary screen, six equalization tanks, six sludge holding tanks, twelve MBR process units, and six chlorine contact chamber or UV disinfection system. The facility has not been constructed.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The plant site will be located approximately 750 feet southeast of the intersection of Rocky Ranch Road and Farm-to-Market Road 484, in Comal County, Texas 78133.

Outfall Location:

| Outfall Number | Latitude | Longitude |
|---|---|---|
| 001 | 29.958400 N | 98.260200 W |

The treated effluent will be discharged to an unnamed tributary, thence to Potter Creek, thence to Canyon Lake in Segment No. 1805 of the Guadalupe River Basin. The unclassified receiving water use is minimal aquatic life use for the unnamed tributary and Potter Creek. The designated uses for Segment No. 1805 are primary contact recreation, public water supply, aquifer protection, and exceptional aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. In accordance with 30 Texas Administrative Code §307.5 and the TCEQ's *Procedures to Implement the Texas Surface Water Quality Standards (June 2010*), an antidegradation review of the receiving waters was performed. A Tier 1 antidegradation review has preliminarily determined that existing water quality uses will not be impaired by this permit action. Numerical and narrative criteria to protect existing uses will be maintained. A Tier 2 review has preliminarily determined that no significant degradation of water quality is expected in Canyon Lake, which has been identified as having high aquatic life use. Existing uses will be maintained and protected. The preliminary determination can be reexamined and may be modified if new information is received.

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 Texas Surface Water Quality Standards (TSWQS) and the State of Texas Water Quality Management Plan (WQMP).

In a case such as this, end-of-pipe compliance with pH limits between 6.0 and 9.0 standard units reasonably assures instream compliance with the TSWQS for pH when the discharge authorized is from a minor facility. This technology-based approach reasonably assures instream compliance with TSWQS criteria due to the relatively smaller discharge volumes authorized by these permits. This conservative assumption is based on TCEQ sampling conducted throughout the state which indicates that instream buffering quickly restores pH levels to ambient conditions. Similarly, this approach has been historically applied within EPA issued NPDES general permits where technology-based pH limits were established to be protective of water quality criteria.

The effluent limits recommended above have been reviewed for consistency with the WQMP. The proposed limits are not contained in the approved WQMP. However, these limits will be included in the next WQMP update.

No priority watershed of critical concern has been identified in Segment 1805. However, the Peck's cave amphipod (*Stygobromus pecki*), Comal Springs dryopid beetle (*Stygoparnus comalensis*), Comal Springs Riffle Beetle (*Heterelmis comalensis*), and the fountain darter (*Etheostoma fonticula*) can occur in Comal County. This determination is based on the United States Fish and Wildlife Service's (USFWS) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (TPDES; September 14, 1998, October 21, 1998 update). To make this determination for TPDES permits, TCEQ and EPA only consider 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 permit does not require EPA review with respect to the presence of endangered or threatened species. This determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion.

Segment No. 1805 is currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list). The listing is for Mercury in edible tissue in the cove around Jacob's Creek Park (AU 1805_01), the North end of Crane's Mill Park Peninsula to the South end of Canyon Park (AU 1805_02), the upper end of the segment (AU 1805_03), and the lower end of the reservoir from the dam upstream to Canyon Park (AU 1805_04). This is a public domestic wastewater treatment facility. The facility does not receive industrial wastewater contributions, therefore the effluent from this facility should not contribute to the mercury in edible tissue impairment of this segment.

SUMMARY OF EFFLUENT DATA

Self-reporting data is not available since the facility is not in operation.

DRAFT PERMIT CONDITIONS

The draft permit authorizes a discharge of treated domestic wastewater at an Interim I volume not to exceed a daily average flow of 0.10 MGD, an Interim II volume not to exceed a daily average flow of 0.30 MGD, and a Final volume not to exceed a daily average flow of 0.60 MGD.

The effluent limitations in the Interim I phase of the draft permit, based on a 30-day average, are 5 mg/l five-day carbonaceous biochemical oxygen demand ($CBOD_5$), 5 mg/l total suspended solids (TSS), 2 mg/l ammonia-nitrogen ($NH_3$-N), 1 mg/l total phosphorus (TP), 126 colony forming units (CFU) or most probable number (MPN) of *E. coli* per 100 ml, and 4.0 mg/l minimum dissolved oxygen (DO). If the facility uses chlorine for disinfection, the effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow. If the permittee utilizes an UV system for disinfection purposes, the permittee shall not exceed a daily average *E. coli* limit of 126 CFU or MPN per 100 ml.

The effluent limitations in the Interim II phase of the draft permit, based on a 30-day average, are 5 mg/l $CBOD_5$, 5 mg/l TSS, 2 mg/l $NH_3$-N, 0.3 mg/l TP, 126 CFU or MPN of *E. coli* per 100 ml, and 4.0 mg/l minimum DO. If the facility uses chlorine for disinfection, the effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes based on peak flow. If the permittee utilizes an UV system for disinfection purposes, the permittee shall not exceed a daily average *E. coli* limit of 126 CFU or MPN per 100 ml.

The effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 5 mg/l $CBOD_5$, 5 mg/l TSS, 2 mg/l $NH_3$-N, 0.15 mg/l TP, 126 CFU or MPN of *E. coli* per 100 ml and 4.0 mg/l minimum DO. If the facility uses chlorine for disinfection, 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). The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual. If the permittee utilizes an UV system for disinfection purposes, the permittee shall not exceed a daily average *E. coli* limit of 126 CFU or MPN per 100 ml.

The draft permit includes a requirement for the permittee to obtain 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 draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

The applicant requested effluent limitations, based on a 30-day average, of 5 mg/l $BOD_5$, 5 mg/l TSS, 2 mg/l $NH_3$-N, 1 mg/l TP, and 4.0 mg/l minimum DO. However, effluent limitations in the Interim II phase of the draft permit, based on a 30-day average, are 5 mg/l $CBOD_5$, 5 mg/l TSS, 2 mg/l $NH_3$-N, **0.3 mg/l TP**, and 4.0 mg/l minimum DO. The effluent limitations in the Final phase of the draft permit, based on a 30-day average, are 5 mg/l $CBOD_5$, 5 mg/l TSS, 2 mg/l $NH_3$-N, **0.15 mg/l TP**, and 4.0 mg/l minimum DO.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on November 6, 2024, and additional information received on November 25, 2024.

2. 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.

3. 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.

4. Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division.

5. Consistency with the Coastal Management Plan: The facility is not located in the Coastal Management Program boundary.

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

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

8. 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.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Kimberly Kendall, P.E. at (512) 239-4540.

*Kimberly Kendall*

Kimberly Kendall, P.E.
Domestic Permits Team
Domestic Wastewater Section (MC 148)

October 30, 2025
Date