Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Texas Parks and Wildlife Department (TPWD) (CN600134852) operates Garner State Park Wastewater Treatment Facility (RN102462215), a pond system. The facility is located at 234 Ranch Road 1050, in Concan, Uvalde County, Texas 78838. This is an application to renew the current permit without any changes and allow the disposal of treated domestic wastewater effluent at a daily average flow that will not exceed 0.060 million gallons per day (MGD) via surface irrigation of 20 acres of nonpublic access pastureland. This permit will not authorize the discharge of pollutants into water in the state.

Discharges from the facility are expected to contain no pollutants. Domestic wastewater is treated by a pond system. Treatment units in the pond system include a facultative lagoon, two stabilization ponds, and two effluent holding ponds.

AGUAS RESIDUALES DOMESTICAS /**AGUAS PLUVIALES**

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

El Departamento de Parques y Vida Silvestre de Texas (TPWD) (CN600134852) opera TPWD Garner State Park Wastewater Treatment Facility (RN102462215), un sistema de estanques. La instalación está ubicada en 234 Ranch Roach 1050, en Concan, Condado de Uvalde, Texas 78838. Esta es una solicitud para renovar el permisio actual sin ningún cambio y permitir la la disposición de efluente de aguas residuales domésticas tratadas a un flujo promedio diario que no excederá 0.060 millones de galones por día (MGD) a través de riego superficial de 20 acres de tierras de pastoreo sin acceso público. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuals domésticas . está tratado por Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuales domésticas son tratadas por un sistema de estanques. Las unidades de tratamiento en el sistema de estanques incluyen una laguna facultativa, dos estanques de estabilización y dos estanques de retención de efluentes .

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0011962001

APPLICATION. Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0011962001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 60,000 gallons per day via surface irrigation of 20 acres of non-public access land. The domestic wastewater treatment facility and disposal area are located at 234 Farm-to-Market Road 1050, near the city of Concan, in Uvalde County, Texas 78838. TCEQ received this application on February 24, 2025. The permit application will be available for viewing and copying at Garner State Park, Check-in Desk, 234 Farm-to-Market Road 1050, Concan, in Uvalde 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/tlap-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=-99.740277,29.6&level=18

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

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from Texas Parks and Wildlife Department at the address stated above or by calling Mr. Kelby Bridwell, Park Superintendent, at 830-834-0321.

Issuance Date: March 28, 2025

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD E
INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
RENOVACION

PERMISO NO. WQ0011962001

SOLICITUD. El Departamento de Parques y Vida Silvestre de Texas, 4200 Smith School Road, Austin, Texas 78744, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el Permiso No. WQ0011962001 la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 60,000 galones por día por medio de 20 acres de tierras de pastizales sin acceso público. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 234 Farm-to-Market Road 1050, cerca de la ciudad de Concan en el Condado de Uvalde, Texas. La TCEQ recibió esta solicitud el 24 de febrero de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en la recepción de las oficinas centrales del Garner State Park, 234 Farm-to-Market Road 1050, Concan, en el Condado de Uvalde, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-99.740277,29.6&level=18

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

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

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

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

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

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

Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

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

CONTACTOS E INFORMACIÓN 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 Departamento de Parques y Vida Silvestre a la dirección indicada arriba o llamando a Sr. Kelby Bridwell, Superintendente del parque al 830-834-0321.

Fecha de emisión: 28 de marzo de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR WATER QUALITY LAND APPLICATION PERMIT FOR MUNICIPAL WASTEWATER

RENEWAL

PERMIT NO. WQ0011962001

APPLICATION AND PRELIMINARY DECISION. Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0011962001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 60,000 gallons per day via surface irrigation of 20 acres of non-public access land. TCEQ received this application on February 24, 2025.

The wastewater treatment facility and disposal site are located 2,000 feet southeast from the intersection fo U.S. Highway 83 and Ranch Road 1050, in Uvalde County, Texas 78838. The wastewater treatment facility and disposal site are located in the drainage basin of Frio River in Segment No. 2117 of the Nueces River Basin. 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=-99.740277,29.6&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 Garner State Park, Check-in Desk, 234 Farm-to-Market Road 1050, Concan, in Uvalde County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-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 permit number; the location and distance of your property/activities relative to the facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; 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 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 germane 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 will only grant a contested case hearing on disputed issues of fact that are relevant and material to the Commission's decision on the application. Further, the Commission will only grant a hearing on issues that were raised in timely filed comments that were not subsequently withdrawn. **TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

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

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

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

Further information may also be obtained from Texas Parks and Wildlife Department at the address stated above or by calling Mr. Kelby Bridwell, Park Superintendent, at 830-834-0321.

Issuance Date: September 18, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISODE SOLICITUD Y DECISIÓN PRELIMINAR PARA PERMISO PARA APLICACIÓN DE LA CALIDAD DEL AGUA EN TERRENOS PARA AGUAS RESIDUALES MUNICIPALES

RENOVACIÓN

PERMISO NO. WQ0011962001

SOLICITUD Y DECISIÓN PRELIMINAR. Texas Parks and Wildlife Department, 4200 Smith School Road, Austin, Texas 78744, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar el Permiso de Aplicación de Tierra de Texas (TLAP) No. WQ001196200 a un volumen que no exceda un flujo promedio diario de 60,000 galones por día a través de la irrigación en superficie de 20 acres de tierras de acceso no público. Este permiso no autorizará la descarga de contaminantes a las aguas del estado. La TCEQ recibió esta solicitud el 24 de febrero de 2025..

La planta y el sitio de disposición están ubicados a 2,000 pies al sureste de la intersección de la U.S. Highway 83 y Ranch Road 1050 en el Condado de Uvalde, Texas. La planta y el sitio de disposición están situados en la cuenca de drenaje del río Frio en el Segmento No. 2117 de la Cuenca del Río Nueces. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación se proporciona 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=-99.740277,29.6&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 Garner State Park, Mesa de Registro, 234 Farm-to-Market Road 1050, Concan, en el Condado de Uvalde, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-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 del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. 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.

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

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

También se puede obtener información adicional Texas Parks and Wildlife Department a la dirección indicada arriba o llamando a Señor Kelby Bridwell al 830-834-0321.

Fecha de emission: el 18 de Septiembre de 2025

TEXAS PARKS & WILDLIFE

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Commissioners

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T. Dan Friedkin
Chairman-Emeritus
Houston

David Yoskowitz, Ph.D.
Executive Director

December 18, 2024

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

Re: Garner State Park Wastewater Treatment Facility
TCEQ Permit/ID No. WQ0011962
Permit Renewal Application

Attached is the original permit renewal application and an additional three copies for the Texas Parks and Wildlife (TPWD) Garner State Park Wastewater Treatment Facility (WWTF). If you have any questions concerning this application, please contact me at (512) 389-4665.

Please initiate an Interagency Transaction Voucher (ITV) for the amount of $315.00 to cover the fees for this renewal. If you should have any questions about the payment of the permit renewal fees, please contact Melanie Lewis at (512) 389-8083.

Sincerely,

Stephen C. Abbott
State Parks Facilities Director

SCA

Attachments

cc: TCEQ Copy 1, Copy 2, and Copy 3
Melanie Lewis (no attachments)
Garner State Park
TPWD State Parks Region 3
File Copy

4200 SMITH SCHOOL ROAD
AUSTIN, TEXAS 78744-3291
512.389.4800
www.tpwd.texas.gov

To manage and conserve the natural and cultural resources of Texas and to provide hunting, fishing and outdoor recreation opportunities for the use and enjoyment of present and future generations.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: TPWD Garner State Park

PERMIT NUMBER (If new, leave blank): WQ00WQ0011962001

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

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

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: See Cover Letter

Check/Money Order Amount: See Cover Letter

Name Printed on Check: See Cover Letter

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ See Cover Letter

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 11962001

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

Expiration Date: May 1, 2025

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

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

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

TPWD Garner State Park c/o TCEQ Coordinator

(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: 600134852

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: Rhodes, Justin

Title: Deputy Director – State Parks Division Credential: N/A

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?

N/A

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

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

CN: N/A

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

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

Title: N/A Credential: N/A

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. Attachment A1

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Abbott, Stephen

Title: TCEQ Coordinator Credential: N/A

Organization Name: TPWD

Mailing Address: 4200 Smtih School Road City, State, Zip Code: Austin, TX, 78744

Phone No.: 512-389-4665 E-mail Address: stephen.abbott@tpwd.texas.gov

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Samples, Ernest

Title: Utility Plant Operator Credential: WW0063146

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, TX, 78838

Phone No.: 830-232-6132 E-mail Address: ernest.samples@tpwd.texas.gov

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Abbott, Stephen

Title: TCEQ Coordinator Credential: N/A

Organization Name: TPWD

Mailing Address: 4200 Smtih School Road City, State, Zip Code: Austin, Texas, 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

B. Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

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: Ms. Last Name, First Name: Lewis, Melanie

Title: Administrative Assistant Credential: N/A

Organization Name: TPWD – State Parks Division

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas, 78744

Phone No.: 512-389-8083 E-mail Address: melanie.lewis@tpwd.texas.gov

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: Samples, Ernest

Title: Utility Plant Operator Credential: WW0063146

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-232-6132 E-mail Address: ernest.samples@tpwd.tecxas.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan. Texas. 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

D. Public Viewing Information

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

Public building name: Garner State Park Headquarters Building

Location within the building: Check-in Desk at Front Entrance

Physical Address of Building: 234 Ranch Road 1050

City: Concan County: Uvalde

Contact (Last Name, First Name): Bridwell, Kelby

Phone No.: 830-834-0321 Ext.: N/A

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: Attachment A2

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102462215

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):

Garner State Park Wastewater Treatment Plant

C. Owner of treatment facility: Texas Parks and Wildlife Department (TPWD) c/o TCEQ Coordinator

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

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

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

Title: N/A Credential: N/A

Organization Name: TPWD

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

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: Texas Parks and Wildlife Department (TPWD) c/o TCEQ Coordinator

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

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

Attachment: N/A

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

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

Title: N/A Credential: N/A

Organization Name: N/A

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

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

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

N/A

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

☐ Yes ☐ No

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

N/A

City nearest the outfall(s): N/A

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

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: Concan

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

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

From the plant site through a 6-inch diameter pipe to the effluent holding ponds; thence through an 8-inch pipe to the irrigation pumps, thence through a 3-inch pipe to the irrigation fields.

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

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: Attachment A1 – Core Data Form, Attachment A2- Plain Language Summary, Attachment A3 – USGS Map

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011962001

Applicant: TPWD Garner State Park

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): Justin Rhodes

Signatory title: Deputy Director – State Parks Division

Signature: _____ Date: 2-19-25

(Use blue ink)

Subscribed and Sworn to before me by the said Justin Rhodes

on this 20th day of February, 2025.

My commission expires on the 31 day of January, 2028.

Dee Halliburton

Notary Public

DEE HALLIBURTON
ID #5483595
My Commission Expires
January 31, 2028

[SEAL]

Travis

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

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

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do Not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** Click to enter text.

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Click to enter text.

   Physical Address of Project or Site: Click to enter text.

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

Prefix (Mr., Ms., Miss): Click to enter text.

Full legal name (Last Name, First Name, Middle Initial): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text. Fax Number: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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

Summary of Application (in Plain Language) ☒ Yes

Attachment A1

Core Data Form

Permit No. WQ0011962001

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 600134852		**RN 102462215**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)		
☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)			
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).			
6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*		*If new Customer, enter previous Customer below:*	
Texas Parks and Wildlife Department			
7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits) 741680372	**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:	TCEQ Coordinator						
	4200 Smith School Road						
	City	Austin	**State**	TX	**ZIP**	78744	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	stephen.abbott@tpwd.texas.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 389-4665		( ) -

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.)*

TPWD Garner State Park

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	234 Ranch Road 1050							
	City	Concan	**State**	TX	**ZIP**	78838	**ZIP + 4**	
24. County	Uvalde							

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

25. Description to Physical Location:	The facility is located on the South side of FM 1050 0.4 miles East of the intersection of FM 10560 and Hwy 83 South, 234 RR 1050, CONCAN, TX

26. Nearest City	State	Nearest ZIP Code
Concan	TX	78838

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

27. Latitude (N) In Decimal:			28. Longitude (W) In Decimal:		
29.604824			-99.741876		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	36	17.3664	-99	44	30.7536

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)
7033		721211	

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

State Park

34. Mailing Address:	**TCEQ Coordinator**							
	4200 Smith School Road							
	City	**Austin**	**State**	**TX**	**ZIP**	**78744**	**ZIP + 4**	

35. E-Mail Address:	**stephen.abbott@tpwd.texas.gov**

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 389-4665		( ) -

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:	Stephen Abbott	**41. Title:**	TCEQ Coordinator

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 389-4665		( ) -	stephen.abbott@tpwd.texas.gov

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:	Texas Parks and Wildlife Department	**Job Title:**	Deputy Director - State Parks
Name *(In Print):*	Justin Rhodes	**Phone:**	(512) 389- **8440**
Signature:		**Date:**	2-19-25

Attachment A2

Plain Language Summary

Permit No. WQ0011962001

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Texas Parks and Wildlife Department (TPWD) (CN600134852) operates Garner State Park Wastewater Treatment Facility (RN102462215), a pond system. The facility is located at 234 Ranch Road 1050, in Concan, Uvalde County, Texas 78838. This is an application to renew the current permit without any changes and allow the disposal of treated domestic wastewater effluent at a daily average flow that will not exceed 0.060 million gallons per day (MGD) via surface irrigation of 0.544 acres of nonpublic access pastureland. This permit will not authorize the discharge of pollutants into water in the state.

Discharges from the facility are expected to contain no pollutants. Domestic wastewater is treated by a pond system. Treatment units in the pond system include a facultative lagoon, two stabilization ponds, and two effluent holding ponds.

AGUAS RESIDUALES DOMESTICAS /**AGUAS PLUVIALES**

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

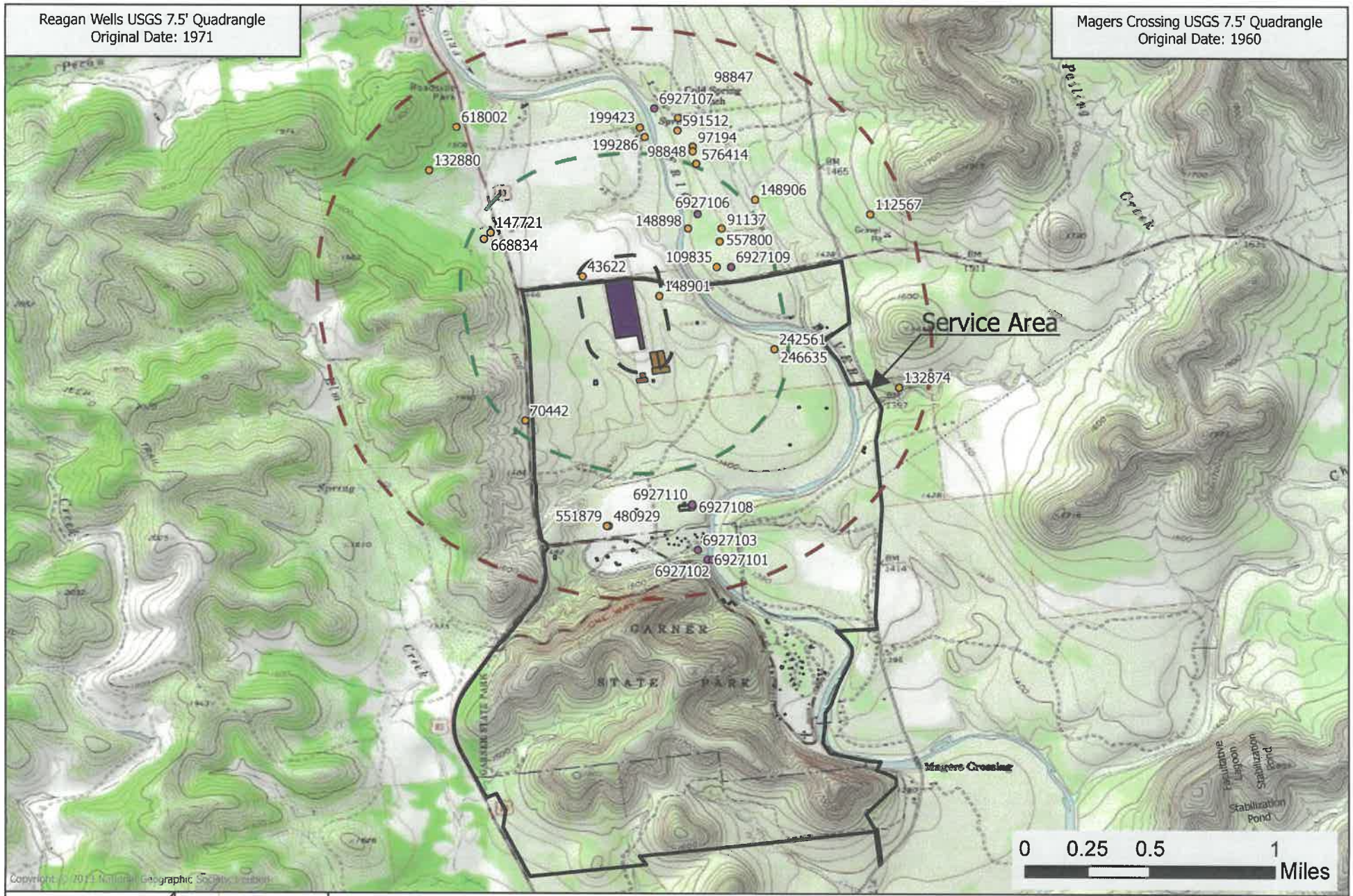
El Departamento de Parques y Vida Silvestre de Texas (TPWD) (CN600134852) opera TPWD Garner State Park Wastewater Treatment Facility (RN102462215), un sistema de estanques. La instalación está ubicada en 234 Ranch Roach 1050, en Concan, Condado de Uvalde, Texas 78838. Esta es una solicitud para renovar el permisio actual sin ningún cambio y permitir la la disposición de efluente de aguas residuales domésticas tratadas a un flujo promedio diario que no excederá 0.060 millones de galones por día (MGD) a través de riego superficial de 0.544 acres de tierras de pastoreo sin acceso público. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuals domésticas . está tratado por Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuales domésticas son tratadas por un sistema de estanques. Las unidades de tratamiento en el sistema de estanques incluyen una laguna facultativa, dos estanques de estabilización y dos estanques de retención de efluentes .

Attachment A3

USGS Map

Permit No. WQ0011962001


Reagan Wells USGS 7.5' Quadrangle
Original Date: 1971
Magers Crossing USGS 7.5' Quadrangle
Original Date: 1960
98847
6927107
618002
199423
591512
97194
199286
98848
576414
132880
148906
6927106
112567
148898
91137
147721
557800
668834
109835
6927109
43622
148901
Service Area
242561
246635
132874
70442
6927110
6927108
551879
480929
6927103
6927101
6927102
GARNER
STATE PARK
Magers Crossing
Facultative Lagoon
Stabilization Pond
0 0.25 0.5 1
Miles
Copyright © 2011 National Geographic Society, i-cubed
Reagan Wells
Magers Crossing
N
UTM Z14 NAD83; map id: GarnerSP
map date: 20241512 TPWD:SP:FM:MFLORESY
TPWD Garner State Park
TPDES Permit No. WQ0011962001
2024 Permit Renewal
Technical Report 1.0
Water Wells
New Wells
500 Foot Buffer
0.5 Mile Buffer
1 Mile Buffer
Irrigation Area
Effluent Storage Ponds
Pond System
Garner Park Boundary
Buildings

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

Section 1. Permitted or Proposed Flows (Instructions Page 42)

A. Existing/Interim I Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.06

2-Hr Peak Flow (MGD): 0.18

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 04/18/1981

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

The wastewater treatment facility utilized biological treatment through a pond system. The treatment units include a facultative lagoon, two stabilization lagoons, and two effluent-holding ponds.

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)
Facultative Lagoon	1	300' X 106' X 12-8ft depths
Stabilization Pond 1	1	300' X 106' X 3'
Stabilization Pond 2	1	300' X 106' X 3'

C. Process Flow Diagram

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

Attachment: Attachment T1

Section 3. Site Information and Drawing (Instructions Page 43)

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

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

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

- Latitude: 25 DEG 36 MIN 5 SEC
- Longitude: -99 DEG 44 MIN 32 SEC

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

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

Attachment: Attachment T2

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

Garner State Park Facilities

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		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: Final Phase – 9/6/15

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

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 Click to enter text. or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. ***Conditional exclusion***

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

☐ Yes ☐ No

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

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

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 49)

Is the facility in operation?

☒ Yes ☐ No

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

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

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

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities – Attachment T3

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	n/a	20.9	1	Grab	1/22/25 10:30
Total Suspended Solids, mg/l	n/a	89.0	1	Grab	1/22/25 10:30
Ammonia Nitrogen, mg/l	n/a	<1.00	1	Grab	1/22/25 10:30
Nitrate Nitrogen, mg/l	n/a	0.382	1	Grab	1/22/25 10:30
Total Kjeldahl Nitrogen, mg/l	n/a	11.2	1	Grab	1/22/25 10:30
Sulfate, mg/l	n/a	1180	1	Grab	1/22/25 10:30
Chloride, mg/l	n/a	310	1	Grab	1/22/25 10:30
Total Phosphorus, mg/l	n/	2.58	1	Grab	1/22/25 10:30
pH, standard units	n/a	9.12	1	Grab	1/22/25 10:30
Dissolved Oxygen*, mg/l	n/a	n/a	1	Grab	n/a
Chlorine Residual, mg/l	n/a	<0.01	1	Grab	1/22/25 10:30
E.coli (CFU/100ml) freshwater	n/a	<1.00	1	Grab	1/22/25 10:30
Entercocci (CFU/100ml) saltwater	n/a	n/a	1	Grab	n/a
Total Dissolved Solids, mg/l	n/a	2520	1	Grab	1/22/25 10:30
Electrical Conductivity, µmohs/cm, †	n/a	4740	1	Grab	1/22/25 10:30
Oil & Grease, mg/l	n/a	n/a	1	Grab	1/22/25 10:30
Alkalinity ($CaCO_3$)*, mg/l	n/a	n/a	1	Grab	n/a

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Ernest Samples

Facility Operator's License Classification and Level: Wastewater Treatment Operator C

Facility Operator's License Number: WW0063146

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): No sludge generation expected during term of permit

D. Disposal site

Disposal site name: No sludge generation expected during term of permit

TCEQ permit or registration number: N/A

County where disposal site is located: N/A

E. Transportation method

Method of transportation (truck, train, pipe, other): No sludge generation expected during term of permit

Name of the hauler: N/A

Hauler registration number: N/A

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: 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: Click to enter text.

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

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.

Click to enter text.

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 54)

A. Additional authorizations

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

☐ Yes ☒ No

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

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 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Justin Rhodes

Title: Deputy Director – State Parks Division

Signature: _____

Date: 2-19-25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Click to enter text.

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: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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: Click to enter text.

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: Click to enter text.

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: Click to enter text.

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: Click to enter text.

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: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

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

Click to enter text.

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		
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		
AVERAGE BOD_5 from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

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

☐ Yes ☐ No

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

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):** Click to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☐ No

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

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

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).

Click to enter text.

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).

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☐ No

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 63)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

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.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

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

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 65)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click to enter text.

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

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

For existing authorizations, provide Registration Number: 102462215

Section 2. Land Application Site(s) (Instructions Page 67)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Bermuda and other grasses on non-public access land.	20	0.06	N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	0.145	0.43	82' X 77' X 5'	Synthetic Liner
2	0.399	0.96	202' X 86' X 5'	Compacted Clay

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

Attachment: Attachment T4

Section 4. Flood and Runoff Protection (Instructions Page 67)

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

☐ Yes ☒ No

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

N/A

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

FEMA maps

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

Collection ditch and roadside ditch divert runoff; application rate is controlled to prevent runoff of effluent

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Attachment T5

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

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Attachment T6

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
242561	Proposed Domestic Use	Y	Cased	Buffer zone distances
246635	Proposed Domestic Use	Y	Cased	Buffer zone distances
147721	Proposed Domestic Use	Y	Cased	Buffer zone distances

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
91137	Proposed Domestic Use	Y	Cased	Buffer zone distances
109835	Proposed Public Supply	Y	Cased	Buffer zone distances
148901	Proposed Domestic Use	Y	Cased	Buffer zone distances
43622	Proposed Domestic Use	Y	Cased	Buffer zone distances
557800	Proposed Domestic Use	Y	Cased	Buffer zone distances
148898	Proposed Domestic Use	Y	Cased	Buffer zone distances
68834	Proposed Domestic Use	Y	Cased	Buffer zone distances
70442	Proposed Domestic Use	Y	Cased	Buffer zone distances
6927106	Domestic	Y	Cased	Buffer zone distances
6927109	Public Supply	No Data	No Data	Buffer zone distances

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

Attachment: Attachment T7

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Attachment T8

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: N/A

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: Attachment T9

B. Soil analyses

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

Attachment: Attachment T10

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
AtA- Atco loam, 0 – 1% slopes, H1	0 – 9" loam	Moderate (0.6 – 2.0 in/hr)	0.13 cm per cm	61
AtA- Atco loam, 0 – 1% slopes, H2	9 – 72" sandy clay loam	Moderate (0.6 – 2.0 in/hr)	0.13 cm per cm	61
MoA – Montell Cay, 0 – 1% slopes, Ap	0 – 8" clay	Very Slow (<0.06 in/hr)	0.15 cm per cm	80
MoA – Montell Cay, 0 – 1% slopes, Bnss	8 – 32" clay	Very Slow (<0.06 in/hr)	0.15 cm per cm	80
MoA – Montell Cay, 0 – 1% slopes, Bknss	32 – 58" clay	Very Slow (<0.06 in/hr)	0.15 cm per cm	80
MoA – Montell Cay, 0 – 1% slopes, Bkny	58 – 80" clay	Very Slow (<0.06 in/hr)	0.15 cm per cm	80
SpB – Speck association, 1 – 8% slope, A	0 – 40" clay loam	Slow (0.06 – 0.2 in/hr)	0.18 cm per cm	80
SpB – Speck association, 1 – 8% slopes, Bt	7 – 15" clay	Slow (0.06 – 0.2 in/hr)	0.18 cm per cm	80
SpB – Speck association, 1 – 8% slopes, R	15 – 40" bedrock	Slow (0.06 – 0.2 in/hr)	0.18 cm per cm	80

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
01/23	0.51	31.6	n/a	7.21	n/a	0.554
02/23	0.11	32.4	n/a	7.8	n/a	0.554
03/23	0.47	33.8	n/a	7.3	n/a	0.554
04/23	0.25	33.7	n/a	7.48	n/a	0.554
05/23	0.20	16.6	n/a	7.46	n/a	0.554
06/23	0.58	30.6	n/a	7.6	n/a	0.554
07/23	0.13	0.11	n/a	7.7	n/a	0.554
08/23	0.30	45.6	n/a	7.6	n/a	0.554
09/23	0.85	31.3	n/a	7.6	n/a	0.554
10/23	0.50	59.5	n/a	7.7	n/a	0.554
11/23	0.59	47.9	n/a	7.6	n/a	0.554
12/23	0.48	42.5	n/a	7.42	n/a	0.554
01/24	0.258	21.4	n/a	7.64	n/a	0.554
02/24	0.192	33	n/a	7.68	n/a	0.554
03/24	0.35	38	n/a	7.6	n/a	0.554
04/24	0.339	35.8	n/a	7.72	n/a	0.554
05/34	0.46	24	n/a	7.4	n/a	0.554
06/24	0.774	38.6	n/a	7.64	n/a	0.554
07/24	0.13	36.5	n/a	7.2	n/a	0.554
08/24	0.53	34	n/a	7.6	n/a	0.554
09/24	0.91	36.5	n/a	7.6	n/a	0.554
10/24	0.20	32	n/a	7.6	n/a	0.554
11/24	1.02	26.5	n/a	7.4	n/a	0.554
12/24	0.20	18	n/a	7.8	n/a	0.554

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

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

Soil conductivity (mmhos/cm): Click to enter text.

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 73)

Identify the type of system:

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

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

Section 1. Administrative Information (Instructions Page 74)

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

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 75)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide **(*2)**				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Epichlorohydrin				---
Ethylbenzene				10
Ethylene Glycol				---
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
4,4'-Isopropylidenediphenol				1
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				---
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) **(*3)**				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) **(*1)**				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide **(*2)**				10
Phenols, Total				10

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

N/A

C. Treatment plant pass through

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

☐ Yes ☒ No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)

A. Substantial modifications

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

☐ Yes ☒ No

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

N/A

B. Non-substantial modifications

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

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

A. General information

Company Name: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: 0

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: 0

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Category: Subcategories: N/A

Click or tap here to enter text. N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Location description (if no address is available): Click to enter text.

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

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

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

   Name: Click to enter text.

   Thickness: Click to enter text.
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

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

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

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

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

Section 5. Site History

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

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

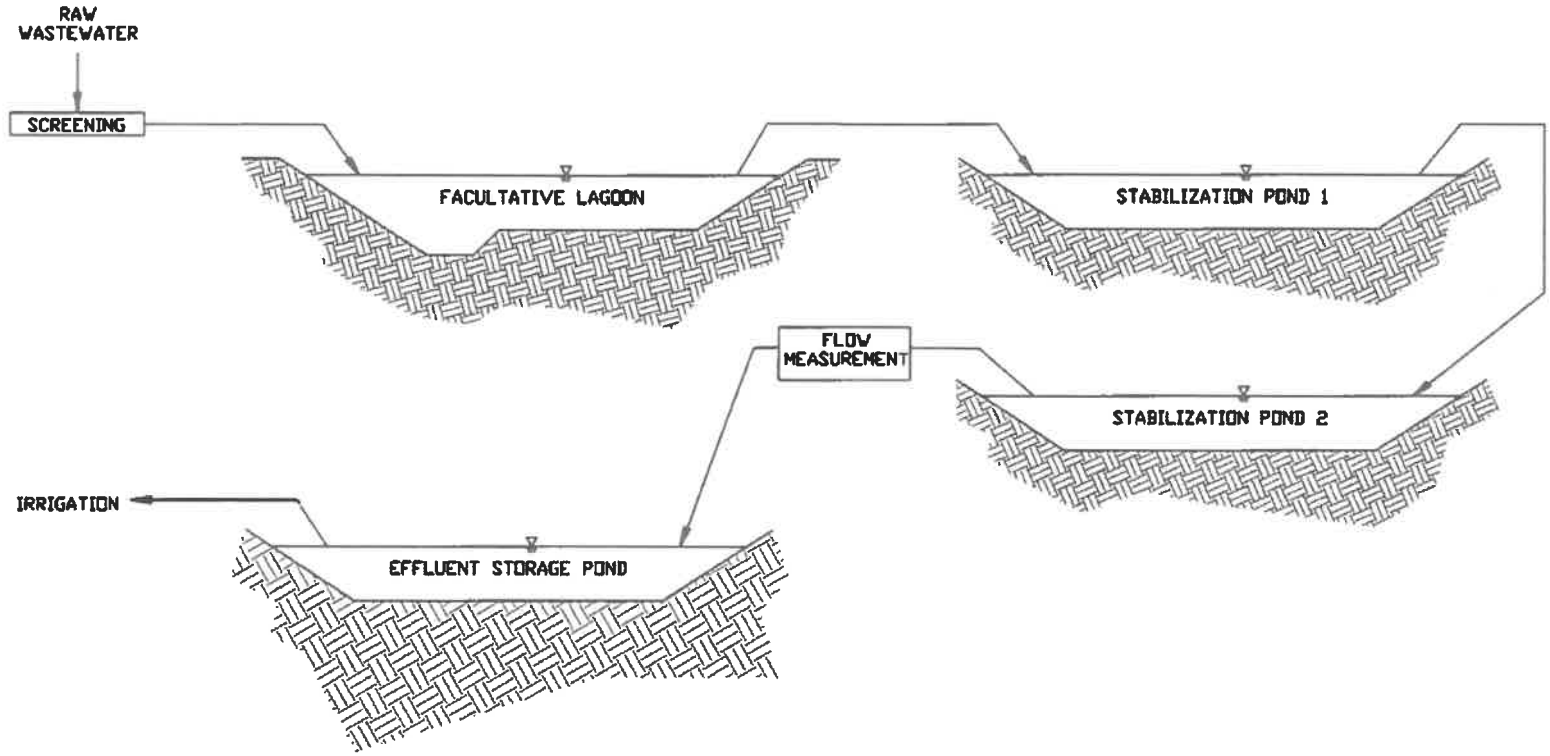
Class V Injection Well Designations

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

Attachment T1

Process Flow Diagram

Permit No. WQ0011962001



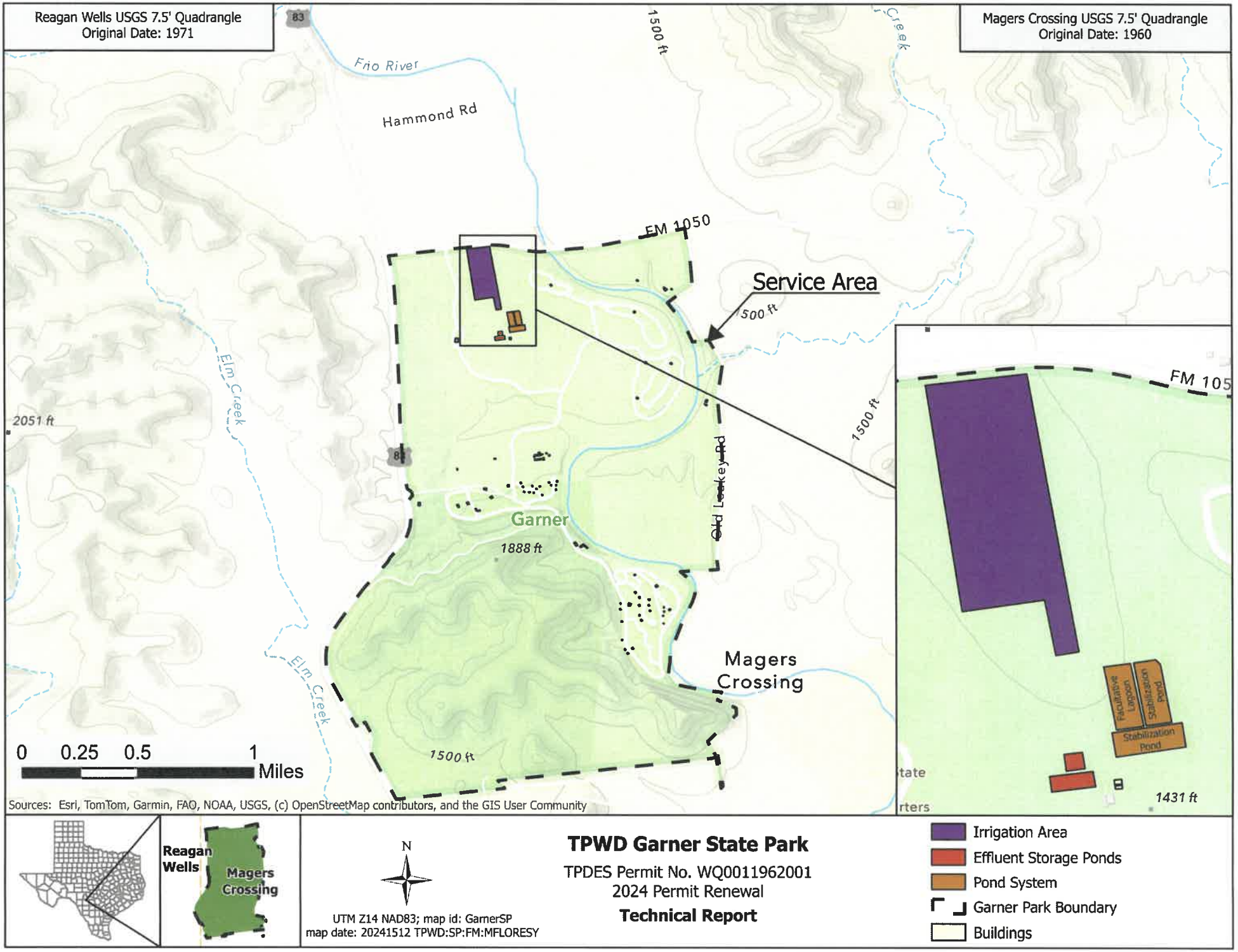
JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING

LAGOON WWTP FLOW
DIAGRAM

Attachment T2

Site Diagram

Permit No. WQ0011962001


Reagan Wells USGS 7.5' Quadrangle
Original Date: 1971
Magers Crossing USGS 7.5' Quadrangle
Original Date: 1960
Frio River
Hammond Rd
1500 ft
Creek
FM 1050
Service Area
500 ft
1500 ft
Elm Creek
2051 ft
Old Lackey Rd
Garner
1888 ft
Magers Crossing
Elm Creek
1500 ft
FM 105
Facultative Lagoon
Aerated Pond
Stabilization Pond
1431 ft
0 0.25 0.5 1 Miles
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community
Reagan Wells
Magers Crossing
N
UTM Z14 NAD83; map id: GarnerSP
map date: 20241512 TPWD:SP:FM:MFLORESY
TPWD Garner State Park
TPDES Permit No. WQ0011962001
2024 Permit Renewal
Technical Report
Irrigation Area
Effluent Storage Ponds
Pond System
Garner Park Boundary
Buildings

Attachment T3

Pollutant Analysis

Permit No.

WQ0011962001

SAN ANTONIO TESTING LABORATORY Stephen Abbott Madelyn Flores

January 29, 2025

Ernest Samples
Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan, TX 78838

SATL Report No.: 2501321
RE: WW Permit

Dear Ernest Samples

SATL received 1 Sample(s) on 01/22/2025 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

SAMPLE SUMMARY

Total Samples received in this work order: 1

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
WW Permit	2501321-01	Liquid	Grab	01/22/25 10:30	01/22/25 14:06

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

Sample ID #: WW Permit | **Sampling Method: Grab** | **Lab Sample ID #: 2501321-01**

Sample Matrix: Liquid | **Date/Time Collected: 01/22/25 10:30**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Microbiological Parameters									
E. Coli *	<1.00	MPN/100 mL	1.00	Start 01/22/25 16:29/End 01/23/25 16:30			Colilert-QTray	DD	
General Chemistry									
Conductivity (@25C) *	4740	umhos/cm	5.00	SM2510B	B505209	01/22/25 16:50	SM2510B	JA	
Ammonia-Nitrogen *	<1.00	mg/L	1.00	SM4500NH3B	B504213	01/23/25 17:00	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	11.2	mg/L	1.00	EPA 351.3	B504212	01/23/25 16:33	EPA 351.3	DD	
Total Dissolved Solids *	2520	mg/L	5.00	SM2540C	B504214	01/22/25 16:35	SM2540C	DD	
Total Suspended Solids *	89.0	mg/L	5.00	SM2540D	B504216	01/22/25 17:18	SM2540D	DD	
pH *	9.12	pH Units	0.01	SM4500HB	B505190	01/22/25 16:50	SM4500HB	JA	H
pH measured @Temperature >>	16.9	°C	0.100	SM4500HB	B505190	01/22/25 16:50	SM2550B	JA	H
CBOD *	20.9	mg/L	2.00	SM5210B	B505175	01/28/25 10:00	SM5210B	DD	
Residual Chlorine *	<0.01	mg/L	0.01	SM4500ClG	B505208	01/23/25 10:15	SM4500ClG	JA	
Total Phosphorous *	2.58	mg/L	0.05	EPA 365.3	B504210	01/23/25 11:00	EPA 365.3	JA	
Anions by Ion Chromatography									
Chloride *	310	mg/L	5.00	EPA 300.0	B505188	01/22/25 19:55	EPA 300.0	JA	
Nitrate as N *	0.382	mg/L	0.100	EPA 300.0	B505188	01/22/25 19:55	EPA 300.0	JA	
Sulfate *	1180	mg/L	5.00	EPA 300.0	B505188	01/22/25 19:55	EPA 300.0	JA	

Texas Parks and Wildlife Department - Garner
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Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B504210 - EPA 365.3									
Blank (B504210-BLK1)				Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:00					
Total Phosphorous	<0.05	0.05	mg/L						
LCS (B504210-BS1)				Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:00					
Total Phosphorous	0.478	0.05	mg/L	0.500		96	80-120		
LCS Dup (B504210-BSD1)				Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:00					
Total Phosphorous	0.476	0.05	mg/L	0.500		95	80-120	0.4	20
Duplicate (B504210-DUP1)		Source: 2501201-04		Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:20					
Total Phosphorous	1.54	0.05	mg/L		1.58			3	20
Matrix Spike (B504210-MS1)		Source: 2501201-04		Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:20					
Total Phosphorous	1.20	0.05	mg/L	0.500	1.58	NR	80-120		
Matrix Spike Dup (B504210-MSD1)		Source: 2501201-04		Prepared: 01/22/25 12:00 Analyzed: 01/22/25 15:20					
Total Phosphorous	1.21	0.05	mg/L	0.500	1.58	NR	80-120	1	20
Batch B504212 - EPA 351.3									
Blank (B504212-BLK1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 15:00					
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B504212-BS1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 15:02					
Total Kjeldahl Nitrogen	19.1	1.00	mg/L	20.0		95	80-120		
LCS Dup (B504212-BSD1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 15:04					
Total Kjeldahl Nitrogen	21.9	1.00	mg/L	20.0		109	80-120	14	20
Duplicate (B504212-DUP1)		Source: 2501146-02		Prepared: 01/22/25 08:30 Analyzed: 01/22/25 15:07					
Total Kjeldahl Nitrogen	9.53	1.00	mg/L		9.53			0	20
Matrix Spike (B504212-MS1)		Source: 2501146-02		Prepared: 01/22/25 08:30 Analyzed: 01/22/25 15:10					
Total Kjeldahl Nitrogen	35.3	1.00	mg/L	20.0	9.53	129	80-120		
Batch B504213 - SM4500NH3B									
Blank (B504213-BLK1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:30					
Ammonia-Nitrogen	<1.00	1.00	mg/L						
LCS (B504213-BS1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:32					

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Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B504213 - SM4500NH3B									
LCS (B504213-BS1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:32					
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120		
LCS Dup (B504213-BSD1)				Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:34					
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0		104	80-120	0	20
Duplicate (B504213-DUP1)		Source: 2501144-01		Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:36					
Ammonia-Nitrogen	<1.00	1.00	mg/L		<1.00				20
Matrix Spike (B504213-MS1)		Source: 2501144-01		Prepared: 01/22/25 08:30 Analyzed: 01/22/25 16:40					
Ammonia-Nitrogen	20.2	1.00	mg/L	20.0	<1.00	101	80-120		
Batch B504214 - SM2540C									
Blank (B504214-BLK1)				Prepared: 01/21/25 16:30 Analyzed: 01/22/25 16:30					
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B504214-BS1)				Prepared: 01/21/25 16:30 Analyzed: 01/22/25 16:31					
Total Dissolved Solids	119	2.50	mg/L	100		119	80-120		
LCS Dup (B504214-BSD1)				Prepared: 01/21/25 16:30 Analyzed: 01/22/25 16:32					
Total Dissolved Solids	114	2.50	mg/L	100		114	80-120	4	20
Duplicate (B504214-DUP1)		Source: 2501235-02		Prepared: 01/21/25 16:30 Analyzed: 01/22/25 16:36					
Total Dissolved Solids	2330	5.00	mg/L		2410			3	20
Batch B504216 - SM2540D									
Blank (B504216-BLK1)				Prepared: 01/22/25 15:00 Analyzed: 01/22/25 17:15					
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B504216-BS1)				Prepared: 01/22/25 15:00 Analyzed: 01/22/25 17:16					
Total Suspended Solids	84.0	25.0	mg/L	100		84	80-120		
LCS Dup (B504216-BSD1)				Prepared: 01/22/25 15:00 Analyzed: 01/22/25 17:17					
Total Suspended Solids	85.0	25.0	mg/L	100		85	80-120	1	20
Duplicate (B504216-DUP1)		Source: 2501321-01		Prepared: 01/22/25 15:00 Analyzed: 01/22/25 17:19					
Total Suspended Solids	93.0	5.00	mg/L		89.0			4	20
Batch B505175 - SM5210B									

Texas Parks and Wildlife Department - Garner
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Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B505175 - SM5210B										
Blank (B505175-BLK1)				Prepared: 01/23/25 10:00		Analyzed: 01/28/25 09:10				
CBOD	<2.00	2.00	mg/L							
LCS (B505175-BS1)				Prepared: 01/23/25 10:00		Analyzed: 01/28/25 09:20				
CBOD	176	2.00	mg/L	200		88	80-120			
LCS (B505175-BS2)				Prepared: 01/23/25 10:00		Analyzed: 01/28/25 09:25				
CBOD	168	2.00	mg/L	200		84	80-120			
LCS (B505175-BS3)				Prepared: 01/23/25 10:00		Analyzed: 01/28/25 09:30				
CBOD	189	2.00	mg/L	200		94	80-120			
Duplicate (B505175-DUP1)		Source: 2501321-01		Prepared: 01/23/25 10:00		Analyzed: 01/28/25 09:20				
CBOD	18.8	2.00	mg/L		20.9			11	20	
Batch B505190 - SM4500HB										
LCS (B505190-BS1)				Prepared: 01/22/25 09:00		Analyzed: 01/22/25 09:00				
pH	7.03	0.01	pH Units	7.00		100	97.5-102.5			
pH measured @Temperature >>	17.6	0.100	°C				0-200			
Duplicate (B505190-DUP1)		Source: 2501321-01		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 16:53				
pH	9.20	0.01	pH Units		9.12			0.9	20	H
pH measured @Temperature >>	16.9	0.100	°C		16.9			0	30	H
Batch B505208 - SM4500ClG										
Blank (B505208-BLK1)				Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15				
Residual Chlorine	<0.01	0.01	mg/L							
LCS (B505208-BS1)				Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15				
Residual Chlorine	0.251	0.01	mg/L	0.250		100	80-120			
LCS Dup (B505208-BSD1)				Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15				
Residual Chlorine	0.237	0.01	mg/L	0.250		95	80-120	6	20	
Duplicate (B505208-DUP1)		Source: 2501321-01		Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15				
Residual Chlorine	<0.01	0.01	mg/L		<0.01				20	
Matrix Spike (B505208-MS1)		Source: 2501321-01		Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15				
Residual Chlorine	0.172	0.01	mg/L	0.250	<0.01	69	80-120			

Texas Parks and Wildlife Department - Garner
234 RR 1050
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Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B505208 - SM4500CIG									
Matrix Spike Dup (B505208-MSD1)		**Source: 2501321-01**		Prepared: 01/23/25 10:00		Analyzed: 01/23/25 10:15			
Residual Chlorine	0.178	0.01	mg/L	0.250	<0.01	71	80-120	3	20
Batch B505209 - SM2510B									
LCS (B505209-BS1)				Prepared: 01/22/25 09:00		Analyzed: 01/22/25 09:00			
Conductivity (@25C)	1040	1.00	umhos/cm	1000		104	80-120		
Duplicate (B505209-DUP1)		**Source: 2501321-01**		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 16:53			
Conductivity (@25C)	4550	5.00	umhos/cm		4740			4	20

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B505188 - EPA 300.0									
Blank (B505188-BLK1)				Prepared: 01/22/25 16:00		Analyzed: 01/22/25 17:32			
Chloride	<0.100	0.100	mg/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B505188-BS1)				Prepared: 01/22/25 16:00		Analyzed: 01/22/25 17:50			
Chloride	4.64	0.100	mg/L	5.00		93	90-110		
Nitrate as N	4.93	0.100	mg/L	5.00		99	90-110		
Sulfate	4.75	0.10	mg/L	5.00		95	90-110		
LCS Dup (B505188-BSD1)				Prepared: 01/22/25 16:00		Analyzed: 01/22/25 18:08			
Chloride	4.66	0.100	mg/L	5.00		93	90-110	0.2	20
Nitrate as N	4.94	0.100	mg/L	5.00		99	90-110	0.3	20
Sulfate	4.74	0.10	mg/L	5.00		95	90-110	0.07	20
Duplicate (B505188-DUP1)		**Source: 2501335-01**		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 18:44			
Chloride	29.1	0.100	mg/L		29.2			0.4	20
Nitrate as N	0.466	0.100	mg/L		0.467			0.2	20
Sulfate	39.6	0.10	mg/L		39.5			0.2	20
Matrix Spike (B505188-MS1)		**Source: 2501335-01**		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 19:02			

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B505188 - EPA 300.0									
Matrix Spike (B505188-MS1)		**Source: 2501335-01**		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 19:02			
Chloride	33.8	0.100	mg/L	5.00	29.2	92	80-120		
Nitrate as N	5.63	0.100	mg/L	5.00	0.467	103	80-120		
Sulfate	43.9	0.10	mg/L	5.00	39.5	87	80-120		
Matrix Spike Dup (B505188-MSD1)		**Source: 2501335-01**		Prepared: 01/22/25 16:00		Analyzed: 01/22/25 19:19			
Chloride	33.8	0.100	mg/L	5.00	29.2	92	80-120	0.002	20
Nitrate as N	5.62	0.100	mg/L	5.00	0.467	103	80-120	0.1	20
Sulfate	43.8	0.10	mg/L	5.00	39.5	86	80-120	0.2	20

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit
Project Number: [none]

Reported:
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Received:
01/22/25 14:06

Report No. 2501321

SAMPLE QUALIFIERS

H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: WW Permit

Project Number: [none]

Reported:
01/29/25 15:34
Received:
01/22/25 14:06

Report No. 2501321

Elizabeth Lopez For Marissa Esquivel, Lab Manager For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY Garner State Park	COMPANY	REPORT NUMBER 2501324
ADDRESS 234 RR 1050	ADDRESS	
CITY Concan STATE TX ZIP	CITY STATE ZIP	E-MAIL
ATTN: PHONE #	ATTN: PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☑ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: WW Permit

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

PROJECT NO.:

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐ Field: pH:_____ Temp:_____ °C: LCS/D:_____/_____ Dup:_____

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☑ YES ☐ NO
PROPER CONTAINERS INTACT ☑ YES ☐ NO
INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☑ NO
IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____
AUTHORIZE TO PROCEED

SAMPLED BY: E. Samples

OBSERVED TEMP. 1.6°C / CORRECTED TEMP. 1.6°C / TEMP. GUN # 1 / SAMPLE ICED ☑ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSOF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	MATRIX: DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	ANALYSIS REQUESTED: BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / C-Tray	Br / Cl / F / NO3 / NO2/D-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	PRESERVED WITH: Ice	HCl	HNO3	H2SO4	NaOH	Na2S2O3	NaHSO4	MeOH	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	FILTERED IN THE FIELD	VOA AIR BUBBLES	REMARKS
1	1-22-25	12:30	X									X			WW Permit	6	2995 ml								X														

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
Ernest Samples	1-22-25 14:26						
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Ernest Samples		Chris Lawson	JAN 23 2025 1410				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT: Hand		SUBCONTRACTED ☐ YES ☐ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☑		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

FORM: COC REV 09/2022

WHITE - LAB CANARY - CLIENT

☐ Yes ☐ No

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

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

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

Table1.0(1) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	n/a		1	Grab	
Total Suspended Solids, mg/l	n/a		1	Grab	
Ammonia Nitrogen, mg/l	n/a		1	Grab	
Nitrate Nitrogen, mg/l	n/a		1	Grab	
Total Kjeldahl Nitrogen, mg/l	n/a		1	Grab	
Sulfate, mg/l	n/a		1	Grab	
Chloride, mg/l	n/a		1	Grab	
Total Phosphorus, mg/l	n/a		1	Grab	
pH, standard units	n/a		1	Grab	
[redacted]	n/a	n/a	1	Grab	n/a
Chlorine Residual, mg/l	n/a		1	Grab	
E.coli (CFU/100ml) freshwater	n/a		1	Grab	
[redacted]	n/a	n/a	1	Grab	n/a
Total Dissolved Solids, mg/l	n/a		1	Grab	
Electrical Conductivity, µmohs/cm, †	n/a		1	Grab	
[redacted]	n/a		1	Grab	
[redacted]	n/a	n/a	1	Grab	n/a

*TPDES permits only
†TLAP permits only

Commented [MF1]: We need to conduct the sampling remaining on this list and provide the results with our application. Please conduct these samples at your next availability. If you provide this list to the lab, they should recognize it and be able to provide you with cost information for the analysis. Only one sample of each parameter is required; should be tested on same day.

Commented [MF2]: Only required for facilities that discharge directly to waterbodies or waterways.

Commented [MF3]: N/A unless your facility discharges to a saltwater body of water

Commented [MF4]: Only required for facilities that discharge directly to waterbodies or waterways.

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

Pollutant	Average	Max	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	n/a	n/a	n/a	n/a	n/a
Total Dissolved Solids, mg/l	n/a	n/a	n/a	n/a	n/a

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: Texas Parks and Wildlife Department - Garne	**Project Manager:** Marissa Esquivel
Project: WW Permit	**Project Number:** [none]

Report To:
Ernest Samples

SATL Report Number: 2501321

Work Order Due by:	01/31/25 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	01/22/25 14:06
Logged In By:	Aimee Landon	Date Logged In:	01/22/25 14:30

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.6°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Yes*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*No*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:
** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*
*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

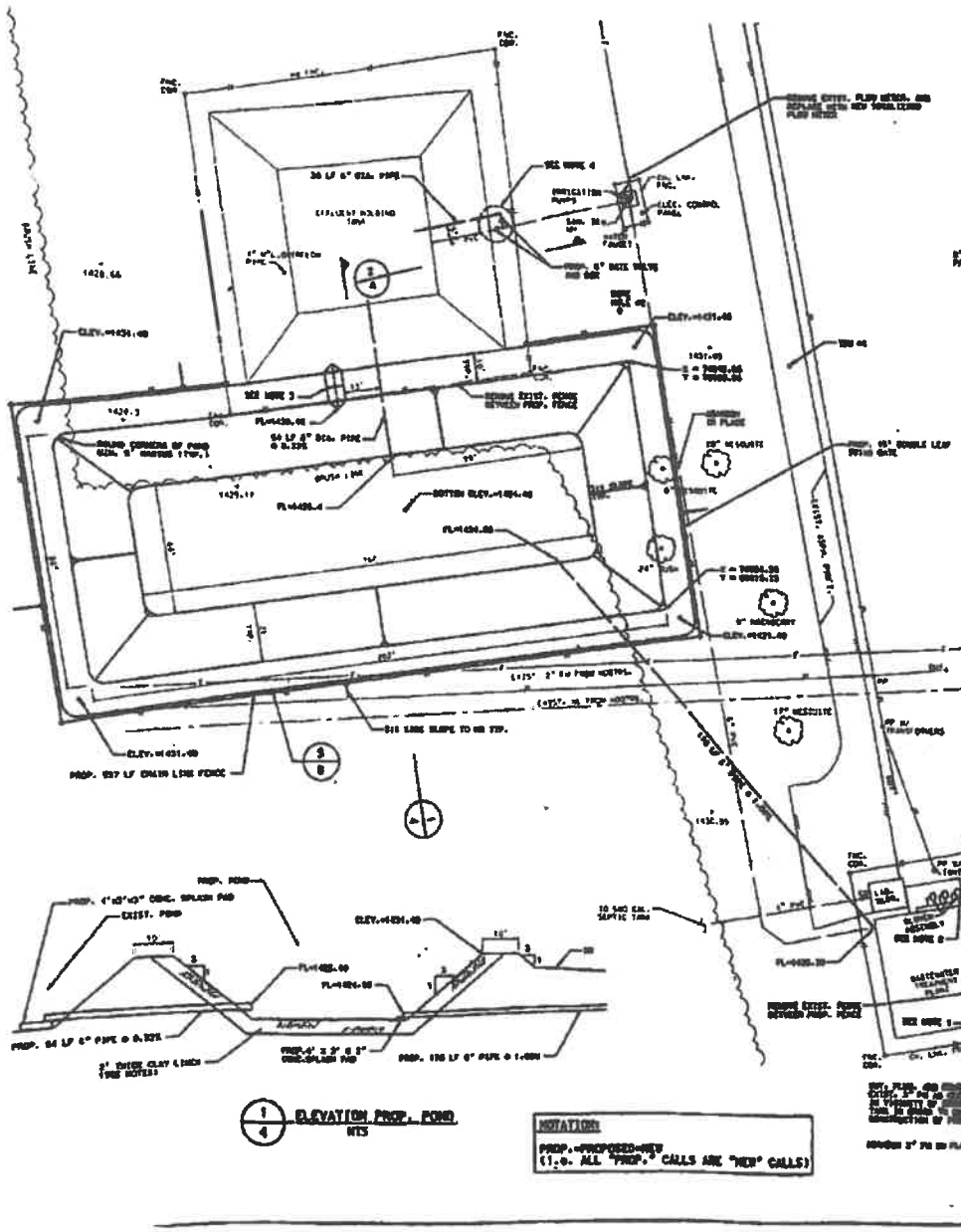
Checked By : *Aimee Landon* Date : *01/22/25 14:06*

SATL#FO001
Revised 09/15/2022

Attachment T4

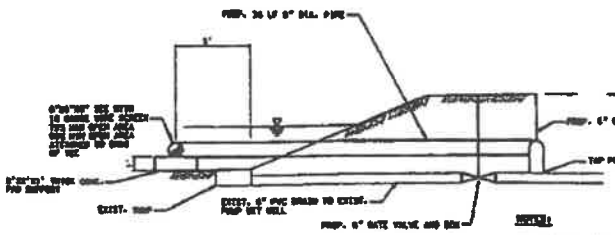
Liner Certification

Permit No. WQ0011962001



1 / 4 ELEVATION, PROP. POND
NTS

NOTATION:
PROP. = PROPOSED = NEW
(i.e. ALL "PROP." CALLS ARE "NEW" CALLS)



2 / 4 ELEVATION SECTION
NTS

GARNER STATE PARK WWTP EFFLUENT HOLDING POND
SHEET 4 of 11, DATED 7 JUNE 1998.

SPECIFICATION ITEMS 5, 6 & 7 MEET REQUIREMENTS OF TITLE 30 TEXAS ADMINISTRATIVE CODE CH 217.203(d)(2)(A) THROUGH (E) EFFECTIVE 28 AUGUST 2008.

CERTIFIED BY MICHAEL S. KANE, PE #81990, 7 JUNE 1998.

NOTES:

1. CUT AND REMOVE EXIST. FH IN THE VICINITY OF THE PROP. TANK SLAB. AND REROUTE THE FH TO THE PROP. EQUALIZATION TANK. SEE SHEET 8, EQUALIZATION TANK PIPING DETAILS, FOR ARRANGEMENT OF EQUALIZATION TANK/WWTP PIPING.
2. SEE SHEET 8, EQUALIZATION TANK PIPING DETAILS, AND SHEET 7, WASTEWATER TREATMENT PLANT, FOR AIR SUPPLY PIPING FROM EXIST. BLOWER HEADER TO PROP. TANK.
3. OVER FLOW CHANNEL AT 0.50% SLOPE. WITH 3:1 SIDE SLOPES.
4. CONNECT PROP. 6" LINE TO EXIST. 6" LINE WITH EITHER A TAPPING SLEEVE AND VALVE OR BY INSTALLING 6" TEE ON THE EXIST. LINE. AND CONNECTING THE PROP. LINE TO THE TEE. AN ADDITIONAL VALVE SHALL BE INSTALLED UPSTREAM OF THE CONNECTION ON THE EXIST. LINE.
5. CLAY LINER SHALL BE AT LEAST 2 FEET THICK. IN-SITU MATERIAL FROM A DEPTH OF AT LEAST 2 FEET BELOW NATURAL GROUND MAY BE UTILIZED FOR THE LINER AS LONG AS THE MATERIAL MEETS THE FOLLOWING CRITERIA: MORE THAN 30% PASSING A #200-MESH SIEVE; LIQUID LIMIT GREATER THAN 30%; AND PLASTICITY INDEX GREATER THAN 15. IF THIS CRITERIA IS NOT MET, OFFSITE MATERIAL MUST BE BROUGHT IN. NO SEPARATE OR ADDITIONAL PAY FOR OFFSITE MATERIAL.
6. IN-SITU CLAY MATERIAL MAY BE HARD AND CLODDY. USE PULVERIZER TO PROCESS SOILS TO ELIMINATE CLODS BEFORE COMPACTION.
7. PLACEMENT OF LINER MATERIAL SHALL BE IN 6 MAX. OF 8" LIFTS, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
8. HYDROMULCH OUTSIDE SLOPES OF POND TO NATURAL GROUND. TOP BANK OF POND, AND AT LEAST 10 FEET IN ALONG THE INSIDE SLOPE OF THE POND. CONTRACTOR IS RESPONSIBLE FOR REVEGETATION OF GRASS COVER.
9. TO AVOID CRACKS IN THE LINER, DO NOT ALLOW THE LINER TO DESICCATE DURING CONSTRUCTION, OR BEFORE THE POND CONTAINS WATER.
10. MATERIALS AND INSTALLATION OF GRAVITY LINE FROM WWTP TO HOLDING POND SHALL BE IN ACCORDANCE WITH SECTION 02720 OF THE SPECIFICATIONS.

N

TEXAS PARKS AND WILDLIFE DEPT.
GARNER STATE PARK
WASTEWATER REHABILITATION

THOMPSON PROFESSIONAL GROUP, INC.

WASTEWATER TREATMENT PLANT SITE PLAN

Attachment T5

Annual Cropping Plan

Permit No. WQ0011962001

Annual Cropping Plan

The effluent irrigation field consists primarily of Bermuda and other native vegetation. TPWD does not utilize cropping on the effluent in that no set quantity of crop is planted per acre with the intention of grazing and harvesting for a set yield. Therefore, there is no warm or cool season cropping, no crop requirements for nutrients, and no supplemental watering or fertilization. In lieu of cropping and subsequent harvesting, TPWD utilized management of the irrigation field through mowing with clippings removal to control any buildup of nutrients. Irrigation with treated effluent treated effluent currently takes place on 9.3 acres of land 900 ft north of the effluent storage ponds. The total existing irrigation area available is 20 acres.

In summary:

Soils map with crops – see map attachment

Cool and warm season plant species – none

Crop growing season – none

Crop nutrient requirements – none

Minimum/ maximum harvest height – none

Additional fertilizer requirements – none

Supplemental watering requirements – none

Crop salt tolerances – not applicable

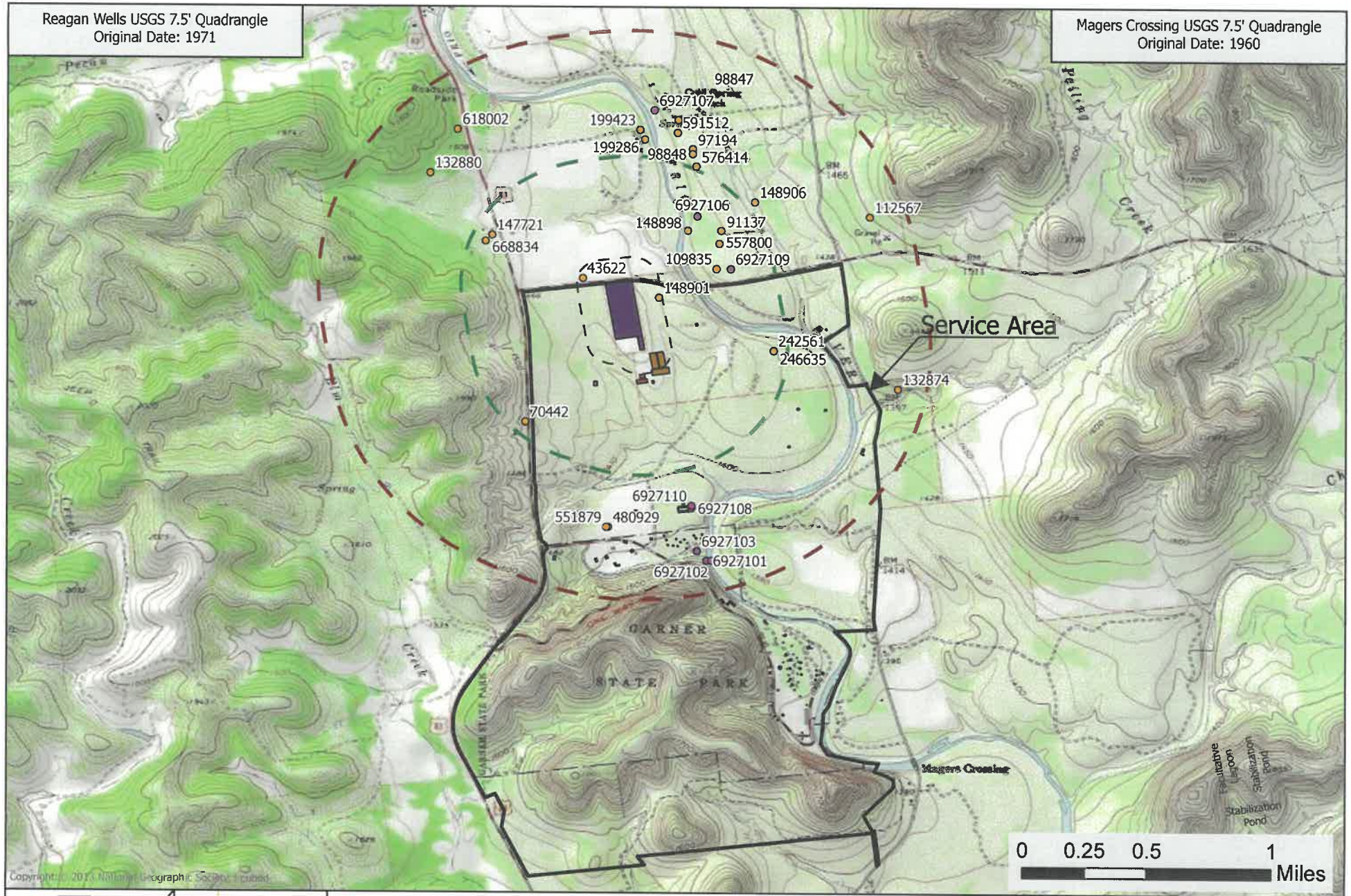
Harvesting method/ number of harvests – as needed

Justification for not removing existing vegetation to be irrigated – as needed

Attachment T6

USGS Well Map

Permit No. WQ0011962001


Reagan Wells USGS 7.5' Quadrangle
Original Date: 1971
Magers Crossing USGS 7.5' Quadrangle
Original Date: 1960
98847
6927107
618002
199423
591512
97194
199286
98848
576414
132880
148906
6927106
112567
147721
148898
91137
557800
668834
109835
6927109
43622
148901
Service Area
242561
246635
132874
70442
6927110
6927108
551879
480929
6927103
6927101
6927102
GARNER
STATE PARK
Magers Crossing
Stabilization Pond
0 0.25 0.5 1
Miles
Reagan Wells
Magers Crossing
N
UTM Z14 NAD83; map id: GarnerSP
map date: 20241512 TPWD:SP:FM:MFLORESY
TPWD Garner State Park
TPDES Permit No. WQ0011962001
2024 Permit Renewal
Technical Report 1.0
Water Wells
New Wells
500 Foot Buffer
0.5 Mile Buffer
1 Mile Buffer
Irrigation Area
Effluent Storage Ponds
Pond System
Garner Park Boundary
Buildings

Attachment T7

Well Log Information

Permit No. WQ0011962001

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 69-27-106

groundwater division

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6927106
County	Uvalde
River Basin	Nueces
Groundwater Management Area	7
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Uvalde County UWCD
Latitude (decimal degrees)	29.608612
Latitude (degrees minutes seconds)	29° 36' 31" N
Longitude (decimal degrees)	-99.738056
Longitude (degrees minutes seconds)	099° 44' 17" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	110AVGR - Alluvium and Glen Rose Limestone
Aquifer	Edwards-Trinity Plateau/Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1425
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	52
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	0/0/1976
Drilling Method	
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	W. Crutchfield
Driller	William O. Cornelius
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	11/10/2009
Last Update Date	11/10/2009

Remarks Reported yield 2 1/2 GPM with 20 feet drawdown after pumping 1 hour.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	29
6	Screen				29	33
	Open Hole				33	52

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

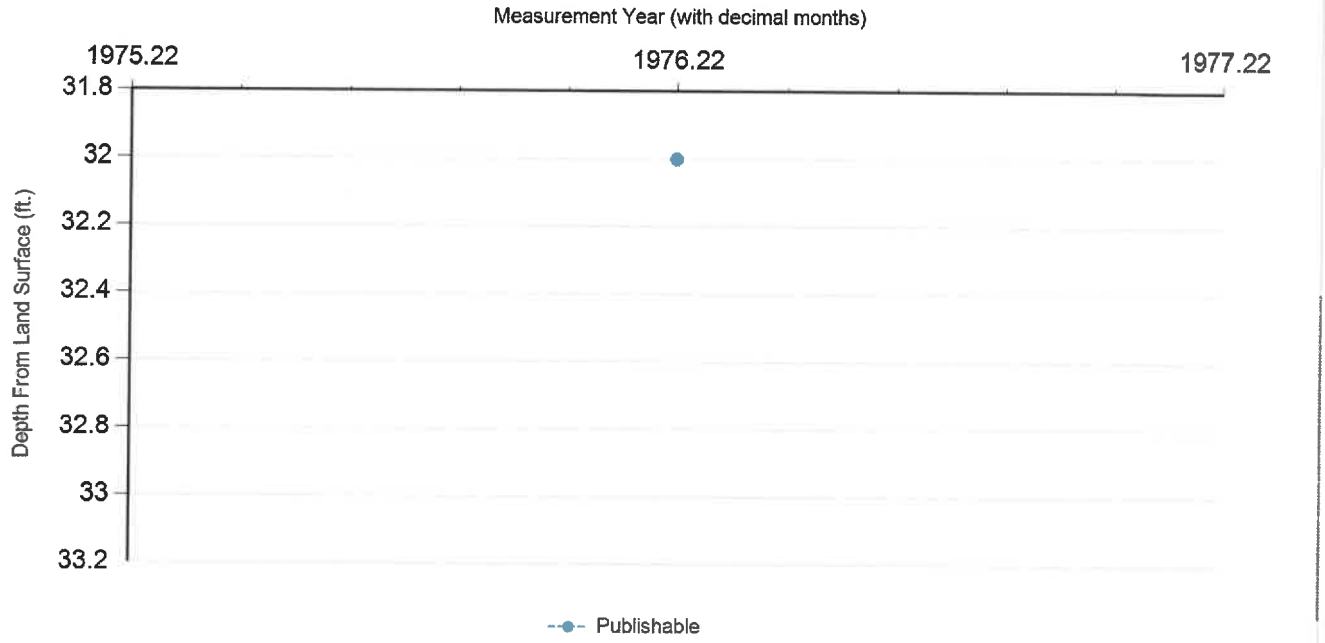
Packers - No Data

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 69-27-106

groundwater division

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	3/19/1976		32		1393	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 69-27-106

groundwater

Water Quality Analysis

Sample Date: 8/19/1976 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Alluvium and Glen Rose Limestone

Analyzed Lab: Texas Department of Health **Reliability:** Not indicative of aquifer quality.

Collection Remarks: from pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		290	mg/L as CACO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		353.9	mg/L	
00910	CALCIUM (MG/L)		108	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		24	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		343	mg/L as CACO 3	
00920	MAGNESIUM (MG/L)		18	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		22	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		17	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.28		
00932	SODIUM, CALCULATED, PERCENT		7	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		12	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		735	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		21	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		396	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

Aquifer Glen Rose ~~(Upper)~~ Alluvium Field No. _____ State Well No. 69-27-106

Owner's Well No. _____ County Uvalde

1. Location: _____ 1/4, _____ 1/4 Sec. _____, Block _____ Survey _____

2. Owner: Mr. W. Crutchfield Address: Box 613 San Juan, Tx 78589

Tenant: _____ Address: _____

Driller: W.O. Cornelius Address: Rt. 204 Utopia, Tx 78884

3. Elevation of LSD is 1425 ft. above msl, determined by Topo

4. Drilled: 3-16 1976; Dug, (Cable Tool), Rotary, _____

5. Depth: Rept. 52 ft. Meas. _____ ft.

6. Completion: (Open Hole), Straight Wall, Underreamed, Gravel Packed _____

7. Pump: Mfgr. _____ Type Submergible

No. Stages _____, Bowls Diam. _____ in., Setting _____ ft.

Column Diam. _____ in., Length Tailpipe _____ ft.

8. Motor: Fuel Elec Make & Model _____ HP. 1/2

9. Yield: Flow _____ gpm, Pump _____ gpm, Meas., Rept., Est. _____

10. Performance Test: Date 3-19-76 Length of Test 1 hr Made by _____

Static Level 32 ft. Pumping Level _____ ft. Drawdown all ft.

Production 2½ + gpm Specific Capacity _____ gpm/ft.

CASING & BLANK PIPE

Cemented From _____ ft. to _____ ft.

Diam. (in.)	Type	Setting, ft. from	to
6 5/8	Steel	3 +1	29 33

11. Water Level: 32 ft. rept. (meas.) 3-19 1976 (above) below LSD which is _____ ft. above (below) surface.

_____ ft. rept. meas. _____ 19__ above below which is _____ ft. above below surface.

_____ ft. rept. meas. _____ 19__ above below which is _____ ft. above below surface.

_____ ft. rept. meas. _____ 19__ above below which is _____ ft. above below surface.

12. Use: (Dom.), Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used. _____

13. Quality: (Remarks on taste, odor, color, etc.) _____

Temp. ___ °F, Date sampled for analysis 8-19-76 Laboratory TSDHE

Temp. ___ °F, Date sampled for analysis _____ Laboratory _____

Temp. ___ °F, Date sampled for analysis _____ Laboratory _____

14. Other data available as circled: (Driller's Log), Radioactivity Log, Electric Log, Formation Samples, Pumping Test, Chemical Analysis

15. Record by: John Ashworth Date 8-19 1976

Source of Data DL, Field visit

16. Remarks: Water from 33 foot depth

WELL SCREEN

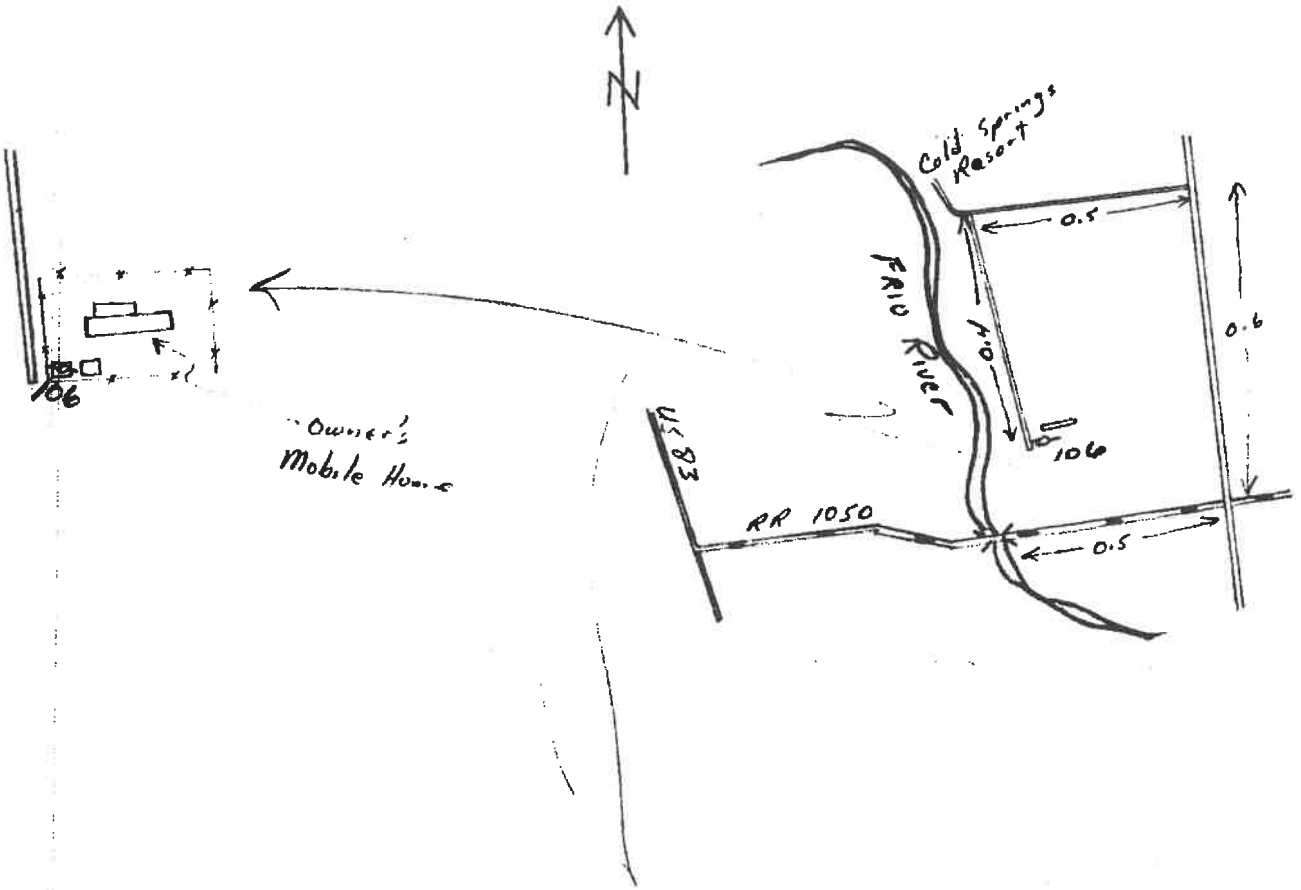
Screen Openings 6 X 5/16

Diam. (in.)	Type	Setting, ft. from	to
6 5/8	Slotted	~~28.8~~ 29	~~32.8~~ 33
	4 rows of 20 slots		
	Open	33	52

From (ft.)	To (ft.)	Description and color of formation material
0	6	Sandy loam and gravel
6	33	Concrete gravel, gravel, and boulders
33	52	Blue gray shale

TWDBE-WD-2 (Sketch)

YP 69-27-106


N
Cold Springs Resort
0.5
0.6
0.5
FRIO River
106
US 83
RR 1050
0.5
Owner's Mobile Home
106

69-27-106

Send original copy by certified mail to the Texas Water Development Board P. O. Box 13087 Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 69-27-1C
Located on map yes
Received: 12-4
alc

1) OWNER:
Person having well drilled Mr. W. Crutchfield (Name) Address Box 613 (Street or RFD) San Juan, Tex. 78589 (City) (State)

Landowner Mr. W. Crutchfield (Name) Address box 613 (Street or RFD) San Juan, Texas 78589 (City) (State)

2) LOCATION OF WELL:
County Uvalde, 15.5 miles in W (N.E., S.W., etc.) direction from Utopia, Tex. (Town)

Locate by sketch map showing landmarks, roads, creeks, hiway number, etc.*

See back side

North

(Use reverse side if necessary)

or Give legal location with distances and directions from adjacent sections or survey lines.

Labor _____ League _____

Block _____ Survey _____

Abstract No. _____

(NW¼ NE¼ SW¼ SE¼) of Section _____

3) TYPE OF WORK (Check):
New Well X | Deepening | Reconditioning | Plugging

4) PROPOSED USE (Check):
X Domestic | Industrial | Municipal | Irrigation | Test Well | Other

5) TYPE OF WELL (Check):
Rotary | Driven | Dug | X Cable | Jetted | Bored

6) WELL LOG:
Diameter of hole 8 in. Depth drilled 33 ft. Depth of completed well 52 ft. Date drilled 3-16-76

All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	6	Sandy loam and gravel
6	33	Concrete gravel, gravel, and boulders
33	52	Blue gray shale

(Use reverse side if necessary)

9) Casing:
Type: Old | New | Steel | Plastic | Other
Cemented from _____ ft. to _____ ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
6 5/8	33	to 1 ft. above gr.	188-W

10) SCREEN:
Type _____
Perforated | Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size
6 5/8	32.8 in.	28.8 in.	8 X 5/16

4 staggered rows of slots. Total 20 slots

7) COMPLETION (Check):
Straight wall | Gravel packed | Other
Under reamed | Open Hole | Cased

8) WATER LEVEL:
Static level 32 ft. below land surface Date 3-19-76
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes | No If yes, by whom?
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.
Bailer test 2 1/2 gpm with all ft. drawdown after 1 hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes | No
Did any strata contain undesirable water? Yes | No.
Type of water? Fresh depth of strata 33

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME W. O. Cornelius (Type or Print) Water Well Drillers Registration No. 1534

ADDRESS Route 1 (Street or RFD) P. O. Box 204 (City) Utopia, (State) Texas 78884

(Signed) W. O. Cornelius (Water Well Driller) W. O. Cornelius (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available. YP 69-27-106

*Additional instructions on reverse side.

TWDB-WO4

69-27-106

Typewrite (Black ribbon) or Print Plainly
(soft pencil or black ink)
Do not use ball point pen

Texas State Department of Health Laboratories
1100 West 49th Street
Austin, Texas 78756

TWDBE-GW

Program No. _____

Proj. No. _____

CHEMICAL WATER ANALYSIS REPORT

Send report to:
Ground Water Data and Protection Division
Texas Water Development Board
P.O. Box 13087
Austin, Texas 78711

Trinity Aquifer Study
6028

County 232
State Well No. 69[illegible]
Date Collected 08 19 76
By John Ashworth

Location 1.5 mi. N of Garner State Park
Source (type of well) Submergible Owner Mr. W. Crutchfield: P.O. Box 613
Date Drilled 3-16-76 Depth 52 ft. WBF Glen Rose San Juan, Texas 78589
Producing intervals 33-52 Water level _____ ft.
Sampled after pumping _____ hrs. Yield _____ GPM meas. est. Temperature _____ °F _____ °C
Point of collection Faucet in yard near pump Appearance ☑ clear ☐ turbid ☐ colored ☐ other
Use D Remarks Send copy to owner
Water from pressure tank

(FOR LABORATORY USE ONLY)

CHEMICAL ANALYSIS

KEY PUNCHED OCT. 27. 1976

Laboratory No. 318979
Date Received ~~AUG 24 1976~~
Date Reported _____

	MG/L	ME/L
Silica	12	
Calcium	108	5.40
Magnesium	18	1.45
Sodium	12	0.53
Total		7.38
☐ Potassium		
☐ Manganese		
☐ Boron		
3/ ☐ Total Iron		
☐ (other) _____	MG/L	

%Na _____
SAR _____
RSC _____

	MG/L	ME/L
Carbonate		0
Bicarbonate	354 (124)	5.80
Sulfate	21	0.43
Chloride	24	0.69
Fluoride	0.2	
Nitrate	22.	0.35
pH	8.2	Total 7.27
1/ Dissolved Solids (sum in MG/L)		396
Phenolphthelein Alkalinity as C aCO3		0
Total Alkalinity as C aCO3	(5.80)	290
Total Hardness as C aCO3	(6.85)	343

Specific Conductance (micromhos/cm3) 644
Diluted Conductance (micromhos/cm3) 5 x 147 = 735

2/ Nitrogen Cycle

Ammonia - N	
Nitrite - N	
Nitrate - N	
Organic Nitrogen	

"☐" items will be analyzed if checked.

1/ The bicarbonate reported in this analysis is converted by computation (multiplying by 0.4917) to an equivalent amount of carbonate, and the carbonate figure is used in the computation of this sum.
2/ Nitrogen cycle requires separate sample.
3/ Total Iron requires separate sample.

TWDBE-WD-1 (Rev. 1-25-72)

Analyst _____ Checked By _____

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 69-27-109

groundwater division

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6927109
County	Uvalde
River Basin	Nueces
Groundwater Management Area	7
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Uvalde County UWCD
Latitude (decimal degrees)	29.605556
Latitude (degrees minutes seconds)	29° 36' 20" N
Longitude (decimal degrees)	-99.736111
Longitude (degrees minutes seconds)	099° 44' 10" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218GLRSU - Glen Rose Limestone, Upper Member
Aquifer	Edwards-Trinity Plateau
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1422
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	44
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	9/20/1990
Drilling Method	Air Rotary
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
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	4-J River Way Bob Allen
Driller	E.A. Glass Drilling
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	G2320053A
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	8/3/2000
Last Update Date	11/10/2009

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

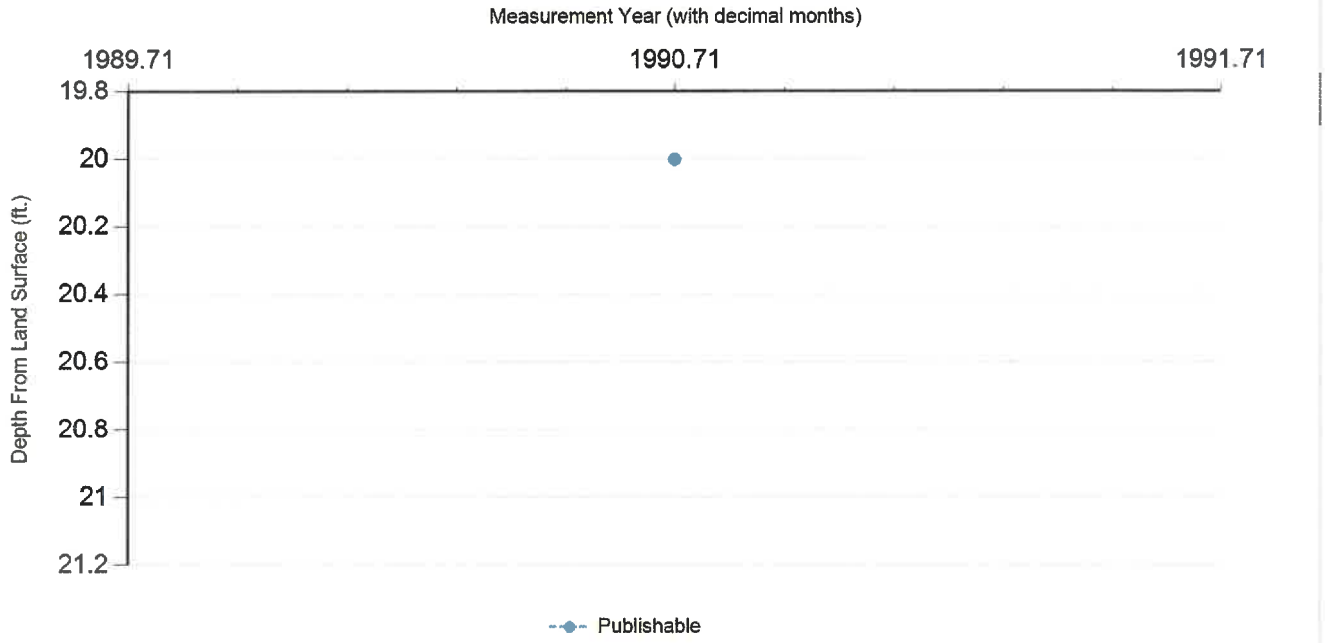
Packers - No Data

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 69-27-109

groundwater division

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	9/20/1990		20		1402	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 69-27-109

groundwater division

Water Quality Analysis - No Data Available

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Texas Water Development Board
Well Schedule

State Well No. 69 27 1 09 Previous Well No. _____ County Uvalde 463

River Basin _____ 21 Zone I Lat. 29 36 19 Long. 099 44 09 Accuracy 1 Coord. 3

Owner's Well No. _____ Location _____ 1/4. _____ 1/4. Section _____, Block _____, Survey _____

Owner 4-J Rider Way
Bob Allen

Driller E. A. Glass Drilling

Address _____ Tenant/Oper. _____

Date Drilled 09 20 1990 Depth 044 Source of Depth Datum D Altitude 1423 Source of Alt. Datum M

Aquifer 218 6LR5U Well Type W User _____

Aquifer ID 218

Well Construction: Const. Method Air Rotary A; Casing Material _____; Completion _____; Screen Material _____

Lift Data: Pump Mfr. _____ Type Subm. S Setting _____; Motor Mfr. _____ Power Elec. E Horsepower ___.__

Yield: Flow _____ GPM Pump _____ GPM Meas.-Repr.-Est. _____ Date _____

Performance Test: Date _____ Length of Test _____ Production _____ GPM

Static Level ____ ft. Pumping Level ____ ft. Drawdown ____ ft. Sp.Cap. _____ GPM/ft.

Water Use: Primary PS P Secondary _____ Tertiary _____

Quality (Remarks) _____

Other Data Available: Water Level M Water Quality N Logs _____ Other Data _____

Water Levels: Date 09 20 1990 Meas. 020.00 Driller; Date _____ Meas. _____; Date _____ Meas. _____

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from 0 to 20
Diam. (in.) Setting (feet) From To

	Diam.	From	To
1	07	0	44
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

Recorded By D.R. Jones Date Record Collected or Updated 08 01 2000 ('20 mm) Reporting Agency 02

Remarks

Aquifer _____

Well No. 69-27-109

Jim EL S.

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink. G23200534

ATTENTION OWNER: ~~Confidentiality~~ Privilege Notice on Reverse Side

State of Texas
WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-6630

4 mi J River Way

1) OWNER Bob ALLEN (Name) ADDRESS 2320053 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: County UVALDE (Street, RFD or other) (City) (State) (Zip) GRID # N

3) TYPE OF WORK (Check): ☑ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☑ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5)

6) WELL LOG:
Date Drilling: Started 9-20 19 90 Completed 9-20 19 90

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
8"	Surface	44'

7) DRILLING METHOD (Check): ☐ Driven ☑ Air Rotary ☐ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft.)	To (ft.)	Description and color of formation material
TOP	2	TOP Soil
2	20	Sand loam
20	42'	Gravel
42	44'	Blue lime

(Use reverse side if necessary)

8) Borehole Completion (Check): ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other
If Gravel Packed give interval ... from ____ ft. to ____ ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Reinf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
6 5/8	Used	Steel	TOP	Bottom	#40 .347

9) CEMENTING DATA [Rule 338.44(1)]
Cemented from 0 ft. to 20 ft. No. of sacks used Plastic
____ ft. to ____ ft. No. of sacks used 3.5
Method used Slurry
Cemented by E.A. Glass
Distance to septic system field lines or other concentrated contamination ____ ft.
Method of verification of above distance

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed [Rule 338.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
☐ Pitless Adapter Used [Rule 338.44(3)(b)]
☐ Approved Alternative Procedure Used [Rule 338.71]

11) WATER LEVEL: 80'
Static level ~~Unknown~~ ft. below land surface Date 9-20-90
Artesian flow 20 gpm. Date 9-20-96

12) PACKERS: Type Depth

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., ____ ft.

14) WELL TESTS:
Type test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 20 gpm with 1/2 ft. drawdown after 1 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☐ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ____ Depth of strata ____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME E A Glass Drilling (Type or print) WELL DRILLER'S LICENSE NO. 488

ADDRESS 1211 G-A Hwy 290 W (Street or RFD) Austin (City) Texas (State) 78737 (Zip)

(Signed) E.A. Glass (Licensed Well-Driller) (Signed) ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available. 69-27-109

TNRCC-0199 (Rev. 11-01-94) DRILLER'S COPY

STATE OF TEXAS WELL REPORT for Tracking #43622

Owner:	**Andy Mora**	Owner Well #:	**No Data**
Address:	**Box 1671** **Port Aransas, TX 78373**	Grid #:	**69-27-1**
Well Location:	**Hwy 83** **Leakey, TX**	Latitude:	**29° 36' 18" N**
		Longitude:	**099° 44' 41" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/29/2003** Drilling End Date: **7/31/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8.5	**0**	**20**
6.75	**20**	**710**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
600	**670**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**6**	**2 Cement**
6	**600**	**18 Bentonite**

Seal Method: **Tremie Pipe**

Sealed By: **U.S.S.**

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

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

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **345 ft.** below land surface on **2003-07-31** Measurement Method: **Unknown**

Packers: **Rubber 600**

Type of Pump: **Submersible** Pump Depth (ft.): **500**

Well Tests: **Pump** **Yield: 8 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	630-650	Fresh

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: **Utopia Sales and Service**
Box 246
Utopia, TX 78884

Driller Name: **Bob Casparis** License Number: **3012**

Comments: **Logged by DT$**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	127	Caliche some Clay
127	217	Gray Shale
217	315	Gray Limestone
315	395	Dark Gray Shale
395	460	Gray Limestone
460	608	Tan Lime
608	650	Gray Lime with Rocks
650	710	Gray Lime

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	N	Plastic	+1/710

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #70442

Owner:	**Tony Sherrouse**	Owner Well #:	**1**
Address:	**HCR 70** **Con Can, TX 78838**	Grid #:	**69-27-1**
Well Location:	**Hwy 83 North** **ConCan, TX**	Latitude:	**29° 35' 48" N**
		Longitude:	**099° 44' 53" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/20/2005** Drilling End Date: **9/22/2005**

Borehole:	*Diameter (in.)*	*Top Depth (ft.)*	*Bottom Depth (ft.)*
	8.75	**0**	**20**
	8.25	**20**	**800**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	*Top Depth (ft.)*	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
	0	**400**	**60**

Seal Method: **Tremie Pipe**

Sealed By: **Duane Wilson**

Distance to Property Line (ft.): **115**

Distance to Septic Field or other concentrated contamination (ft.): **165**

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **380 ft.** below land surface on **2005-09-23** Measurement Method: **Unknown**

Packers: **Rubber 700**
Rubber 400

Type of Pump: **Submersible** Pump Depth (ft.): **500**

Well Tests: **Pump** **Yield: 15 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	80	Fresh

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: **Davenport Drilling**

11844 Bandera Rd
Helotest, TX 78023

Driller Name: **Don Davenport** License Number: **2671**

Apprentice Name: **Jimmy Duane Wilson** Apprentice Number: **3143**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	40	Caliche
40	123	Tan Lime
123	260	Grey Shale
260	285	Lt. Grey \ Tan
285	310	Grey Shale
310	345	Lt. Grey
345	430	Grey
430	455	Lt. Tan
455	740	Tan
740	800	Hard Pourous Rock/ Lt.Tan Color

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2"	N	Plastic	0-720 SDR 17
4 1/2"	N	Plastic	Screen 720-800 .020

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #91137

Owner:	**BILLY McCALLA**	Owner Well #:	**No Data**
Address:	**P.O. BOX 246 RIO FRIO, TX 78879**	Grid #:	**69-27-1**
Well Location:	**Cold Springs Rd Rio Frio, TX 78879**	Latitude:	**29° 36' 28" N**
		Longitude:	**099° 44' 12" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/14/2006** Drilling End Date: **8/17/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10.625	**0**	**23**
8	**23**	**668**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**6**	**4 cement**
6	**540**	**18 bentonite**

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.): **No Data**

Method of Verification: **MEASURED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **238 ft.** below land surface on **2006-08-17** Measurement Method: **Unknown**

Packers: **Rubber 540'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 200 GPM**

	Strata Depth (ft.)	Water Type
Water Quality:	645-665	fresh

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: **Utopia Sales & Service**
P.O. Box 246
Utopia, TX 78884

Driller Name: **Bob Casparis** License Number: **3012**

Apprentice Name: **Billy Spence** Apprentice Number: **00001568**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	23	sandy loam & gravel
23	190	lite gray shale
190	250	dark gray shale
250	408	tan lime
485	640	gray lime
640	668	gray lime & sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	new	Plastic	+1 / 668

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

STATE OF TEXAS WELL REPORT for Tracking #109835

Owner:	**Bill John Jennings**	Owner Well #:	**4J River Way**
Address:	**P.O. Box 4** **RIO FRIO, TX 78879**	Grid #:	**69-27-1**
Well Location:	**Hwy 1050** **Rio Frio, TX 78879**	Latitude:	**29° 36' 20" N**
		Longitude:	**099° 44' 13" W**
Well County:	**Uvalde**	Elevation:	**1424 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Public Supply**

Drilling Start Date: **3/22/2007** Drilling End Date: **4/4/2007** **Plans Approved by TCEQ - YES**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
14	**0**	**33**
10	**33**	**608**
6	**608**	**678**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**33**	**18 cement**
0	**605**	**142 cement**

Seal Method: **HAILBURTON**

Sealed By: **Driller**

Variance Number: **yes**

Distance to Property Line (ft.): **20**

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

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

Method of Verification: **measured**

Surface Completion: **Surface Slab Installed**

Water Level: **249 ft.** below land surface on **2007-04-05** Measurement Method: **Unknown**

Packers: **NONE**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 22 GPM with 70 ft. drawdown after 36 hours**

Water Quality:

Strata Depth (ft.)	Water Type
625-650	fresh

Chemical Analysis Made: **No**

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

Natural Injurious Constituents	Unnatural Injurious Constituents
anahydrite	

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Utopia Sales & Service**
P.O. Box 246
Utopia, TX 78884

Driller Name: **Bob Casparis** License Number: **3012**

Apprentice Name: **Billy Spence** Apprentice Number: **57167**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	5	Black dirt & sandy loam
5	32	gravel
32	34	bedrock
34	198	gray lime
198	218	gray lime w/anahydrite
218	325	gray lime
325	570	tan lime
570	630	dark gray lime
648	678	tan lime

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 5/8	new	steel	0 / 605
10 3/4	new	steel	+2 / 33

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #147721

Owner:	**George Streib**	Owner Well #:	**No Data**
Address:	**Box 102** **Rio Frio, TX 78879**	Grid #:	**69-26-3**
Well Location:	**N Hwy 83 & F.M. 1050** **Concan, TX 78838**	Latitude:	**29° 36' 27" N**
		Longitude:	**099° 45' 00" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/29/2008** Drilling End Date: **5/29/2008**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8.75**	**0**	**100**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**6 Cement**

Seal Method: **Poured**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **200**

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

Method of Verification: **Estimated**

Surface Completion: **Surface Sleeve Installed**

Water Level: **55 ft.** below land surface on **2008-06-08** Measurement Method: **Unknown**

Packers: **Rubber 20'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: .25 GPM with 0 ft. drawdown after .5 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	2	Fresh

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: **Wilson Well Service**

P.O. Box 1272
Leakey, TX 78873

Driller Name: **Jimmy Duane Wilson Jr.** License Number: **54947**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1.5	Top Soil
1.5	16	Yellow Clay
16	100	Grey Shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	New	Sdr17	0-80
5"	New	Sdr17	80-100 .035 Screen

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

STATE OF TEXAS WELL REPORT for Tracking #148898

Owner:	**Mike Hatch**	Owner Well #:	**No Data**
Address:	**P.O. Box 229 Rio Frio, TX 78879**	Grid #:	**69-27-1**
Well Location:	**Highway 1050 Leakey, TX**	Latitude:	**29° 36' 28" N**
		Longitude:	**099° 44' 19" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/3/2006** Drilling End Date: **1/4/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8.5	**0**	**20**
8	**20**	**725**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**6**	**4 Cement**
6	**640**	**20 Bentonite**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **300**

Distance to Septic Field or other concentrated contamination (ft.): **2000**

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

Method of Verification: **Estimated**

Surface Completion: **Surface Sleeve Installed**

Water Level: **313 ft.** below land surface on **2006-01-04** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40 GPM with 0 ft. drawdown after 1 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	678 - 690	Fresh

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: **Utopia Sales and Service**
Box 246
Utopia, TX 78884

Driller Name: **Bob Casparis** License Number: **3012**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	Black Dirt
4	50	Caliche
50	225	Light Gray Shale
225	413	Light Gray Lime
413	488	Tan Line
488	595	Light Gray Line
595	620	Dark Gray Lime, Some Clay
620	648	Light Gray Lime
648	690	Tan Lime, Some Gravel
690	725	Light Gray Lime

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8 5/8	New	Steel +1	15
4 1/2	New	Plastic +1	652

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #148901

Owner:	**Marion Lewis**	Owner Well #:	**No Data**
Address:	**413 East Huisache San Antonio, TX 78212**	Grid #:	**69-27-1**
Well Location:	**Cold Springs Road Rio Frio, TX**	Latitude:	**29° 36' 14" N**
		Longitude:	**099° 44' 25" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/6/2006** Drilling End Date: **1/10/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10.25	**0**	**23**
8	**23**	**688**

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**3**	**4 Cement**
3	**600**	**22 Bentonite**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **51**

Distance to Septic Field or other concentrated contamination (ft.): **180**

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **241 ft.** below land surface on **2006-01-10** Measurement Method: **Unknown**

Packers: **Rubber 600**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 100 GPM with 0 ft. drawdown after 1 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	640 - 660	Fresh

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: **Utopia Sales and Service**
Box 246
Utopia, TX 78884

Driller Name: **Bob Casparis** License Number: **3012**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	Black Dirt
3	22	Sandy Loam and Gravel
22	27	Cream Colored Caliche
27	190	Light Gray Shale and Clay
190	250	Light Gray Shale
250	408	Tan Lime
408	485	Tan Sandy Lime
485	640	Gray Lime
640	688	Gray Lime and Sand

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	New	Plastic	+1 688

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

STATE OF TEXAS WELL REPORT for Tracking #242561

Owner:	**Jeff Jones**	Owner Well #:	**5457540**
Address:	**3327 Ivory Creek** **San Antonio, TX 78258**	Grid #:	**69-27-1**
Well Location:	**CR 351** **Rio Frio, TX 78879**	Latitude:	**29° 36' 03" N**
		Longitude:	**099° 44' 01" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/20/2011** Drilling End Date: **1/20/2011**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**55**

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**10 cement**

Seal Method: **Poured**

Sealed By: **Utopia Sales & Service**

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

Distance to Septic Field or other concentrated contamination (ft.): **125**

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **28 ft.** below land surface on **2011-01-20** Measurement Method: **Unknown**

Packers: **rubber 10**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 20 GPM with 0 ft. drawdown after .5 hours**

Water Quality:	Strata Depth (ft.)	Water Type
	29 - 34	fresh

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: **Utopia Sales & Service Inc.**
P O Box 246
Utopia, TX 78884

Driller Name: **Robert Chad Hillis** License Number: **58250**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	blk dirt
2	8	sandy loam
8	34	gravel
34	55	gray shale

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	new	Plastic SDR 17	+1 / 55

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STATE OF TEXAS WELL REPORT for Tracking #246635

Owner:	**John Sommerville**	Owner Well #:	**5457550**
Address:	**5926 Hidden Mist San Antonio, TX 78250**	Grid #:	**69-27-1**
Well Location:	**Cold Springs Ranch Rd Rio Frio, TX 78879**	Latitude:	**29° 36' 03" N**
		Longitude:	**099° 44' 01" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **2/28/2011** Drilling End Date: **2/28/2011**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**34**
6	**34**	**56**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**10**	**5 cement**

Seal Method: **Poured**

Sealed By: **Utopia Sales & Service**

Variance Number: **yes**

Distance to Property Line (ft.): **5**

Distance to Septic Field or other concentrated contamination (ft.): **200**

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **27 ft.** below land surface on **2011-02-28** Measurement Method: **Unknown**

Packers: **rubber 10**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 20 GPM with 0 ft. drawdown after .05 hours**

Water Quality:	Strata Depth (ft.)	Water Type
	27 - 34	fresh

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: **Utopia Sales & Service Inc.**

P O Box 246
Utopia, TX 78884

Driller Name: **Robert Chad Hillis** License Number: **58250**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	blk dirt
2	9	sandy loam w/ gravel
9	34	gravel
34	56	gray lime

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	new	plastic	+1 / 56

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #557800

Owner:	**Jack Moore**	Owner Well #:	**No Data**
Address:	**P.O. Box 171 Rio Frio, TX 78878**	Grid #:	**69-27-1**
Well Location:	**FM 1050 Rio Frio, TX 78878**	Latitude:	**29° 36' 25.26" N**
		Longitude:	**099° 44' 12.4" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/23/2020** Drilling End Date: **10/27/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
11	**0**	**33**
8	**33**	**711**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**8**	**Cement 11 Bags/Sacks**
8	**207**	**Bentonite 20 Bags/Sacks**

Seal Method: **positive displacement exterior**

Sealed By: **Driller**

Distance to Property Line (ft.): **190**

Distance to Septic Field or other concentrated contamination (ft.): **200**

Distance to Septic Tank (ft.): **200**

Method of Verification: **measured**

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

Water Level: **348 ft.** below land surface on **2020-10-29** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 207 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40 GPM with 0 ft. drawdown after 1.5 hours**

Water Quality:

Strata Depth (ft.)	Water Type
661 - 691	fresh

Chemical Analysis Made: **No**

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

Top Depth (ft.)	Bottom Depth (ft.)	Natural Injurious Constituents	Unnatural Injurious Constituents
177	187	dry anhydrite	

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Utopia sales & Services Inc**

PO Box 246
Utopia, TX 78884

Driller Name: **Bruce Killough** License Number: **59907**

Apprentice Name: **Jacob Calk** Apprentice Number: **60509**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	top soil
1	29	gravel & sandy loam
29	125	grey shale & tan limestone
125	157	tan & grey shale
157	177	grey & tan limestone
177	187	anhydrite
187	267	tan & grey speckled limestone
267	307	tan & grey speckled limestone w/ grey shale
307	367	tan & grey speckled limestone
367	449	tan limestone
449	510	tan & grey speckled limestone w/ quartz

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	-2	651
4.5	Screen	New Plastic (PVC)	SDR17 0.032	653	711

510	571	tan & grey speckled limestone
571	591	tan & grey speckled limestone w/tan & grey sandstone
591	611	grey speckled limestone
611	631	tan & grey speckled limestone
631	661	tan & grey speckled limestone & green shale
661	691	brown sandstone
691	711	grey speckled limestone w/ quartz

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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P.O. Box 12157
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STATE OF TEXAS WELL REPORT for Tracking #668834

Owner:	**Jami H. Owen**	Owner Well #:	**No Data**
Address:	**5546 Canada Ct. Rockwall, TX 75032**	Grid #:	**69-26-3**
Well Location:	**Hwy 83 Leakey, TX 78873**	Latitude:	**29° 36' 25.7" N**
		Longitude:	**099° 45' 01.39" W**
Well County:	**Uvalde**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **6/13/2024** Drilling End Date: **6/17/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10.75	**0**	**19**
8	**19**	**787**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**10**	**Cement 14 Bags/Sacks**
10	**427**	**Bentonite 24 Bags/Sacks**

Seal Method: **Pos. Dis. Exterior**

Sealed By: **Driller**

Distance to Property Line (ft.): **10**

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

Distance to Septic Tank (ft.): **150**

Method of Verification: **Measured**

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

Water Level: **438 ft.** below land surface on **2024-06-19** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 427 ft.**

Type of Pump: **No Data**

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

Estimated **Yield: 50 GPM with 0 ft. drawdown after 1 hours**

	Strata Depth (ft.)	Water Type
Water Quality:	641 - 765	Fresh

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: **Utopia Sales & Service, Inc.**
P.O. Box 246
Utopia, TX 78884

Driller Name: **Zachary Barfield** License Number: **59010**

Apprentice Name: **Jacob Calk** Apprentice Number: **60509**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	Topsoil
4	16	Caliche w/ Cobble
16	29	Tan Clay
29	54	Tan Limestone
54	422	Tan and Grey Speckled Limestone w/ Grey Shale
422	515	Tan Limestone w/ Flint
515	641	Tan and Grey Speckled Limestone w/ Flint
641	765	Tan and Grey Limestone w/ Quartz
765	787	Grey 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	-1	747
4.5	Screen	New Plastic (PVC)	SDR-17 0.035	747	787

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Austin, TX 78711
(512) 334-5540

Attachment T8

Groundwater Quality

Technical Report

Permit No. WQ0011962001

Groundwater Quality Technical Report

TPWD Garner State Park

In accordance with 30 TAC § 309.20(a)(4)(A and B), this report provides an assessment of the impact of the wastewater disposal operation on the uses of local groundwater resources.

The Bureau of Economic Geology's Geological Atlas of Texas, San Antonio Sheet, indicates that TPWD Garner State Park, including the wastewater pond system, effluent ponds, and irrigation area, overlies Holocene/Pleistocene undivided Quaternary deposits and the Comanchean Cretaceous Upper Glen Rose Formation of the Trinty Group. See attached map excerpt.

Per the table attached in response to Domestic Worksheet 3.0, Table 3.0(3) – Water Well Data, there appear to be thirteen groundwater wells within a ½ mile radius of the irrigation site, with two being within 500 feet of the boundaries of the irrigation site. The total depth reported for the thirteen water wells varies from 44 feet to 800 feet. The wells appear to have been completed in undivided quaternary deposits that can include slope wash, alluvial fan deposits, alluvium, and colluvium or the Upper Glen Rose Formation which consists of limestone, dolomite, and marl. None of the wells are located within a 150-foot radius of the irrigation site. Water wells 148901 and 43622 were created within 500 feet of the irrigation site for proposed domestic use. Water wells 242561, 246635, 147721, 91137, 557800,148898,68834, and 70442 were created within a ½ mile of the irrigation site for proposed domestic use. Water well 109835 was created within a ½ mile radius of the irrigation site for proposed public supply. Water well 6927106 is located within a ½ mile radius for domestic use, and water well 6927109 for public supply. The best management practice for the wells is meeting the buffer zone distances per 30 TAC § 309.13. Applicable buffer zone distances will continue to be maintained.

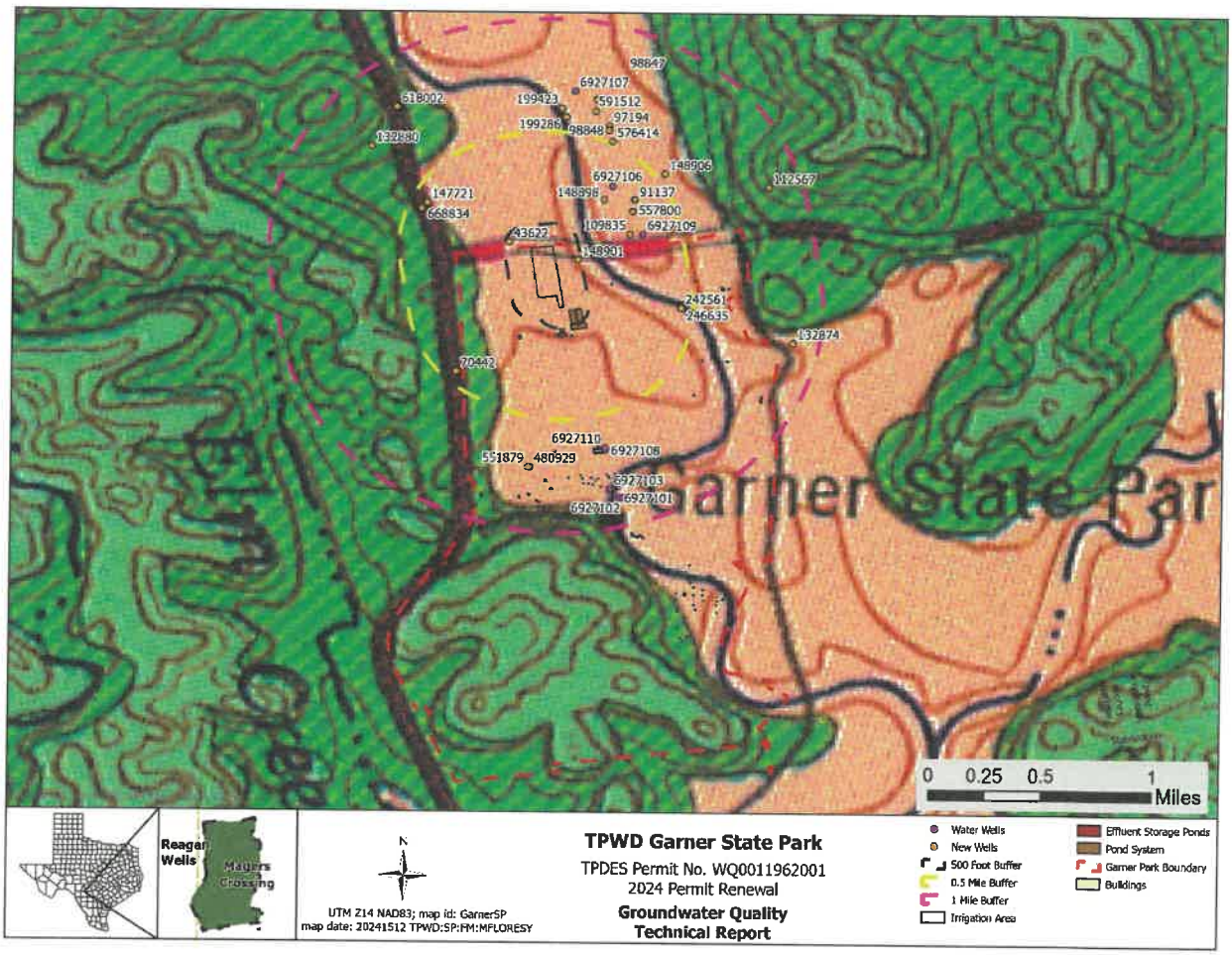
State of Texas Well Reports are for the identified water wells within a ½ mile radius of the irrigation site are available in Attachment T6. This information comes from well logs available through the Texas Water Development Board's Water Data Interactive Well Viewer. This information may be inaccurate as there is often limited information for older wells and inconsistent and unvalidated information provided by well drillers and/or owners. All wells except Well 6927109 are identified as being cased. There is no available data on the casing of the Well 6927109. The yields of the water wells vary from 0.25 GPM to 200 GPM.

The wastewater effluent is used to irrigate adjacent agricultural land. The effluent applied to the land has a maximum application rate, as a permit limit, to ensure that the effluent is taken up by the crop root systems. The agronomic application rate ensures that potential contaminants do not migrate below the rooting zone.

The soil USDA NRCS report and map (see Domestic Technical Report Attachment T7) indicate that the topsoils at the irrigation areas are loam, sandy clay loam, clay loam, and clay. Since the soils may be permeable, the wastewater effluent storage pond 1 is lined with a synthetic liner, and the effluent storage pond 2 is lined with compacted clay. These liners act as barriers to

prevent effluent from seeping into the underlying groundwater. The liner's low permeability ensures that the effluent remains contained within the pond, thereby reducing the risk of groundwater contamination.

In summary, the wastewater treatment pond system and the effluent irrigation system are not anticipated to negatively impact the uses of groundwater resources.



Attachment T9

USDA Soil Survey

Permit No. WQ0011962001

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Uvalde County, Texas

December 16, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:2,870 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Uvalde County, Texas
Survey Area Data: Version 22, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 18, 2021—Mar 26, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AtA	Atco loam, 0 to 1 percent slopes	2.8	7.5%
MoA	Montell clay, 0 to 1 percent slopes	31.2	83.9%
SpB	Speck association, 1 to 8 percent slopes	3.2	8.6%
Totals for Area of Interest		**37.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Uvalde County, Texas

AtA—Atco loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dj05
Elevation: 650 to 1,500 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 215 to 265 days
Farmland classification: Farmland of statewide importance, if irrigated

Map Unit Composition

Atco and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Atco

Setting

Landform: Erosion remnants on stream terraces
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 72 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: B
Ecological site: R083AY019TX - Gray Sandy Loam
Hydric soil rating: No

MoA—Montell clay, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2sxv1
Elevation: 400 to 1,200 feet
Mean annual precipitation: 21 to 29 inches
Mean annual air temperature: 69 to 71 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Montell and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Montell

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous clayey alluvium

Typical profile

Ap - 0 to 8 inches: clay
Bnss - 8 to 32 inches: clay
Bknss - 32 to 58 inches: clay
Bkny - 58 to 80 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 30 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 30.0
Available water supply, 0 to 60 inches: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D

Ecological site: R083BY015TX - Saline Clay
Hydric soil rating: No

Minor Components

Uvalde
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083AY027TX - Western Clay Loam
Hydric soil rating: No

Knippa
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083BY017TX - Blackland
Hydric soil rating: No

Caid
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083AY027TX - Western Clay Loam
Hydric soil rating: No

Unnamed, hydric
Percent of map unit: 1 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

SpB—Speck association, 1 to 8 percent slopes

Map Unit Setting
National map unit symbol: 2t0sh
Elevation: 900 to 2,050 feet
Mean annual precipitation: 25 to 32 inches
Mean annual air temperature: 65 to 69 degrees F
Frost-free period: 240 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Speck and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Speck

Setting

Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Clayey residuum and/or slope alluvium derived from limestone

Typical profile

A - 0 to 7 inches: clay loam
Bt - 7 to 15 inches: clay
R - 15 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D
Ecological site: R081BY340TX - Redland 23-31 PZ
Hydric soil rating: No

Minor Components

Comfort

Percent of map unit: 12 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY337TX - Low Stony Hill 23-31 PZ
Hydric soil rating: No

Kavett

Percent of map unit: 7 percent

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY343TX - Shallow 23-31 PZ
Hydric soil rating: No

Topia

Percent of map unit: 6 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY328TX - Deep Redland 23-31 PZ
Hydric soil rating: No

Eckrant

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY337TX - Low Stony Hill 23-31 PZ
Hydric soil rating: No

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Attachment T10

Soil Analysis

Permit No. WQ0011962001

SAN ANTONIO TESTING LABORATORY

January 31, 2025

Ernest Samples
Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan, TX 78838

SATL Report No.: 2501320
RE: Annual Soil / Irrigation Field

Dear Ernest Samples

SATL received 3 Sample(s) on 01/22/2025 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.

Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

SAMPLE SUMMARY

Total Samples received in this work order: 3

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

Sample ID	Laboratory ID	Matrix	Sampling Method	Date Sampled	Date Received
Soil 0-6"	2501320-01	Solid	Composite	01/22/25 09:45	01/22/25 13:55
Soil 6-18"	2501320-02	Solid	Composite	01/22/25 09:45	01/22/25 13:55
Soil 18-30"	2501320-03	Solid	Composite	01/22/25 09:45	01/22/25 13:55

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.
Test results pertain only to those items tested.
All samples were in good condition when received by the laboratory unless otherwise noted.

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field
Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

Sample ID #: Soil 0-6" **Sampling Method: Composite** **Lab Sample ID #: 2501320-01**

Sample Matrix: Solid **Date/Time Collected: 01/22/25 09:45**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
% Solids	80.7	% by Wt.	0.100	% Calc	B505218	01/30/25 10:36	ASTM D2216	TW	
Conductivity (@25C)	856	umhos/cm	1.00	USDA60	B505248	01/30/25 11:30	USDAHB60	JA	
Ammonia-Nitrogen *	55.5	mg/kg dry	10.0	SM4500NH3B	B504243	01/23/25 17:00	SM4500NH3C	DD	
Total Kjeldahl Nitrogen	819	mg/kg dry	1.00	EPA 351.3	B504233	01/23/25 13:09	EPA 351.3	DD	
Total Nitrogen	850	mg/kg dry	2.00	[CALC]	[CALC]	01/30/25 00:05	CALC	DD	
SoilpH measured in H20@°Cbelow	7.03	pH Units	0.10	EPA 9045D	B505250	01/30/25 11:30	EPA 9045D	JA	H
pH measured @Temperature >>	21	°C	0.10	EPA 9045D	B505250	01/30/25 11:30	EPA 170.1	JA	H
Anions by Ion Chromatography									
Nitrite as N *	0.84	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:05	EPA 300.0	JA	
Nitrate as N *	30.1	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:05	EPA 300.0	JA	
Available Metals by Mehlich III Extraction									
Phosphorus, Available	23.6	mg/kg dry	10.0	Mehlich-III	B505253	01/30/25 15:57	M-III/6010	SJ	
Potassium, Available	417	mg/kg dry	50.0	Mehlich-III	B505253	01/30/25 15:57	M-III/6010	SJ	

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

Sample ID #: Soil 6-18" **Sampling Method: Composite** **Lab Sample ID #: 2501320-02**

Sample Matrix: Solid **Date/Time Collected: 01/22/25 09:45**

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
% Solids	80.8	% by Wt.	0.100	% Calc	B505218	01/30/25 10:36	ASTM D2216	TW	
Conductivity (@25C)	1170	umhos/cm	1.00	USDA60	B505248	01/30/25 11:32	USDAHB60	JA	
Ammonia-Nitrogen *	27.7	mg/kg dry	10.0	SM4500NH3B	B504243	01/23/25 17:01	SM4500NH3C	DD	
Total Kjeldahl Nitrogen	555	mg/kg dry	1.00	EPA 351.3	B504233	01/23/25 13:10	EPA 351.3	DD	
Total Nitrogen	583	mg/kg dry	2.00	[CALC]	[CALC]	01/30/25 00:23	CALC	DD	
SoilpH measured in H20@°Cbelow	7.16	pH Units	0.10	EPA 9045D	B505250	01/30/25 11:32	EPA 9045D	JA	H
pH measured @Temperature >>	21	°C	0.10	EPA 9045D	B505250	01/30/25 11:32	EPA 170.1	JA	H
Anions by Ion Chromatography									
Nitrite as N *	0.74	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:23	EPA 300.0	JA	
Nitrate as N *	27.7	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:23	EPA 300.0	JA	
Available Metals by Mehlich III Extraction									
Phosphorus, Available	6.85	mg/kg dry	5.00	Mehlich-III	B505253	01/30/25 16:50	M-III/6010	SJ	
Potassium, Available	287	mg/kg dry	50.0	Mehlich-III	B505253	01/30/25 16:03	M-III/6010	SJ	

SAN ANTONIO TESTING LABORATORY

LABORATORY REPORT

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

Sample ID #: Soil 18-30"

Sampling Method: Composite

Lab Sample ID #: 2501320-03

Sample Matrix: Solid

Date/Time Collected: 01/22/25 09:45

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
General Chemistry									
% Solids	84.6	% by Wt.	0.100	% Calc	B505218	01/30/25 10:36	ASTM D2216	TW	
Conductivity (@25C)	1010	umhos/cm	1.00	USDA60	B505248	01/30/25 11:34	USDAHB60	JA	
Ammonia-Nitrogen *	<10.0	mg/kg dry	10.0	SM4500NH3B	B504243	01/23/25 17:02	SM4500NH3C	DD	
Total Kjeldahl Nitrogen	357	mg/kg dry	1.00	EPA 351.3	B504233	01/23/25 13:11	EPA 351.3	DD	
Total Nitrogen	379	mg/kg dry	2.00	[CALC]	[CALC]	01/30/25 00:41	CALC	DD	
SoilpH measured in H20@°Cbelow	7.48	pH Units	0.10	EPA 9045D	B505250	01/30/25 11:34	EPA 9045D	JA	H
pH measured @Temperature >>	21	°C	0.10	EPA 9045D	B505250	01/30/25 11:34	EPA 170.1	JA	H
Anions by Ion Chromatography									
Nitrite as N *	0.77	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:41	EPA 300.0	JA	
Nitrate as N *	21.7	mg/kg dry	0.50	EPA 300.0	B505238	01/30/25 00:41	EPA 300.0	JA	
Available Metals by Mehlich III Extraction									
Phosphorus, Available	<5.00	mg/kg dry	5.00	Mehlich-III	B505253	01/30/25 16:56	M-III/6010	SJ	
Potassium, Available	141	mg/kg dry	50.0	Mehlich-III	B505253	01/30/25 16:09	M-III/6010	SJ	

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field
Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B504233 - EPA 351.3										
Blank (B504233-BLK1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 13:00						
Total Kjeldahl Nitrogen	<1.00	1.00	mg/kg wet							
LCS (B504233-BS1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 13:01						
Total Kjeldahl Nitrogen	196	1.00	mg/kg wet	200		98	80-120			
LCS Dup (B504233-BSD1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 13:02						
Total Kjeldahl Nitrogen	219	1.00	mg/kg wet	200		109	80-120	11	20	
Duplicate (B504233-DUP1)		**Source: 2501201-06**		Prepared: 01/22/25 08:30 Analyzed: 01/23/25 13:03						
Total Kjeldahl Nitrogen	423	1.00	mg/kg dry		395			7	20	
Matrix Spike (B504233-MS1)		**Source: 2501201-06**		Prepared: 01/22/25 08:30 Analyzed: 01/23/25 13:05						
Total Kjeldahl Nitrogen	705	1.00	mg/kg dry	251	395	123	80-120			M
Batch B504243 - SM4500NH3B										
Blank (B504243-BLK1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 16:00						
Ammonia-Nitrogen	<10.0	10.0	mg/kg wet							
LCS (B504243-BS1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 16:01						
Ammonia-Nitrogen	196	10.0	mg/kg wet	200		98	80-120			
LCS Dup (B504243-BSD1)				Prepared: 01/22/25 08:30 Analyzed: 01/23/25 16:02						
Ammonia-Nitrogen	202	10.0	mg/kg wet	200		101	80-120	3	20	
Duplicate (B504243-DUP1)		**Source: 2501201-06**		Prepared: 01/22/25 08:30 Analyzed: 01/23/25 16:04						
Ammonia-Nitrogen	14.1	10.0	mg/kg dry		7.05			67	20	S
Matrix Spike (B504243-MS1)		**Source: 2501201-06**		Prepared: 01/22/25 08:30 Analyzed: 01/23/25 16:05						
Ammonia-Nitrogen	282	10.0	mg/kg dry	251	7.05	109	80-120			
Batch B505248 - USDA60										
LCS (B505248-BS1)				Prepared: 01/30/25 11:00 Analyzed: 01/30/25 11:00						
Conductivity (@25C)	1030	1.00	umhos/cm	1000		103	80-120			
Duplicate (B505248-DUP1)		**Source: 2501320-03**		Prepared: 01/30/25 11:00 Analyzed: 01/30/25 11:36						
Conductivity (@25C)	916	1.00	umhos/cm		1010			9	20	
Batch B505250 - EPA 9045D										

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
Batch B505250 - EPA 9045D										
LCS (B505250-BS1)				Prepared: 01/30/25 11:00 Analyzed: 01/30/25 11:00						
SoilpH measured in H20@°Cbelow	7.01	0.10	pH Units	7.00		100	97.5-102.5			
pH measured @Temperature >>	20.6	0.10	°C				0-200			
Duplicate (B505250-DUP1)		**Source: 2501320-03**		Prepared: 01/30/25 11:00 Analyzed: 01/30/25 11:36						
SoilpH measured in H20@°Cbelow	7.65	0.10	pH Units		7.48			2	20	H
pH measured @Temperature >>	20.6	0.10	°C		20.6			0	30	H

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B505238 - EPA 300.0									
Blank (B505238-BLK1)				Prepared: 01/29/25 16:00 Analyzed: 01/29/25 17:15					
Nitrite as N	<0.10	0.10	mg/kg wet						
Nitrate as N	<0.10	0.10	mg/kg wet						
LCS (B505238-BS1)				Prepared: 01/29/25 16:00 Analyzed: 01/29/25 17:32					
Nitrite as N	45.2	0.10	mg/kg wet	50.0		90	90-110		
Nitrate as N	51.1	0.10	mg/kg wet	50.0		102	90-110		
LCS Dup (B505238-BSD1)				Prepared: 01/29/25 16:00 Analyzed: 01/29/25 17:50					
Nitrite as N	45.4	0.10	mg/kg wet	50.0		91	90-110	0.4	30
Nitrate as N	51.2	0.10	mg/kg wet	50.0		102	90-110	0.1	30
Duplicate (B505238-DUP1)		**Source: 2501325-01**		Prepared: 01/29/25 16:00 Analyzed: 01/29/25 22:00					
Nitrite as N	<0.20	0.20	mg/kg wet		<0.20				20
Nitrate as N	0.458	0.20	mg/kg wet		0.554			19	20
Matrix Spike (B505238-MS1)		**Source: 2501325-01**		Prepared: 01/29/25 16:00 Analyzed: 01/30/25 01:52					
Nitrite as N	44.9	0.10	mg/kg wet	50.0	<0.10	90	80-120		
Nitrate as N	51.1	0.10	mg/kg wet	50.0	0.554	101	80-120		
Matrix Spike Dup (B505238-MSD1)		**Source: 2501325-01**		Prepared: 01/29/25 16:00 Analyzed: 01/30/25 02:10					
Nitrite as N	44.9	0.10	mg/kg wet	50.0	<0.10	90	80-120	0.07	20
Nitrate as N	51.0	0.10	mg/kg wet	50.0	0.554	101	80-120	0.2	20

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

SAMPLE QUALIFIERS

H	This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.

DEFINITIONS

*	TNI / NELAC accredited analyte
PQL	Practical Quantitation Limit
MCL	Maximum Contaminant Level
mg/Kg	Milligrams per Kilogram (Parts per Million)
mg/L	Milligrams per Liter (Parts per Million)
PPM	Parts per Million
L	LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M	MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR	Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL	Recommended Maximum Concentration of Contaminants Level
Surr L	Surrogate recovery is low outside QC limits.
Surr H	Surrogate recovery is high outside QC limits.
HT	Sample received past holdtime
IC	Improper Container for this analyte(s)
IP	Improper preservation for this analyte(s)
IT	Improper Temperature
V	Inssuficient Volume
B	Sample collected in Bulk
S	RPD is outside QC limits.
AB	VOA Vial contained air bubbles.
OP	ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV	Continuing Calibration Verification Standard.
ICV	Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

Texas Parks and Wildlife Department - Garner
234 RR 1050
ConCan TX, 78838

Additional Notes:

Project Manager: Ernest Samples
Project: Annual Soil / Irrigation Field

Project Number: [none]

Reported:
01/31/25 15:47
Received:
01/22/25 13:55

Report No. 2501320

Aimee Landon For Marcela Gracia Hawk, President For

Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CHAIN-OF-CUSTODY RECORD

SAN ANTONIO TESTING LABORATORY, LLC

1610 S. Laredo Street, San Antonio, Texas 78207
(210) 229-9920 • Fax (210) 229-9921
www.satestinglab.com

REPORT TO:	INVOICE TO:	P.O. #
COMPANY Garner State Park	COMPANY	REPORT NUMBER 2501300
ADDRESS 234 RR 1050	ADDRESS	
CITY Concan STATE Texas ZIP 78838	CITY STATE ZIP	E-MAIL
ATTN: PHONE #	ATTN: PHONE #	

REQUESTED TURNAROUND TIME IN BUSINESS DAYS & SURCHARGE: ☐ 7-10 Days REG ☐ 5 Days +25% ☐ 4 Days +50% ☐ 3 DAYS +75% ☐ 2 DAYS +100% ☐ Next Day +150% ☐ SAME DAY WHEN POSSIBLE +300%

PROJECT NAME/LOCATION/SITE: Soil Samples / Irrigation Field

THE TURNAROUND TIME FOR SAMPLES RECEIVED AFTER 3:00 PM SHALL BEGIN AT 8:00 AM THE FOLLOWING BUSINESS DAY / SPECIAL REQ.:

PROJECT NO.

DATA TO TCEQ ☐ RRC ☐ Other (Specify) ☐

Field: pH:_____; Temp:_____ °C; LCS/D:_____ | _____; Dup:_____

SAMPLED BY E Samples

SAMPLE TEMPERATURE WITHIN COMPLIANCE (> 0°C ≤ 6°C) ☑ YES ☐ NO
PROPER CONTAINERS INTACT ☑ YES ☐ NO

INSUFFICIENT SAMPLE FOR (TCLP/SPLP/OTHER): ☐ YES ☑ NO IF NO, INITIAL HERE TO AUTHORIZE ANALYSIS _____ AUTHORIZE TO PROCEED _____

OBSERVED TEMP. 1.6C / CORRECTED TEMP. 1.6C / TEMP-ID GUN #7 / SAMPLE ICED ☑ YES ☐ NO

TRRP 13 ☐ APPENDIX A ☐ PST PCLS ☐ SIM/LOW LEVEL ☐ TSDF Class 2 ☐ PERMIT ☐

SAMPLE NUMBER	COLLECTED DATE	COLLECTED TIME	MATRIX: DRINKING WATER	LIQUID	PAINT CHIPS	OIL	ORGANIC LIQUID	SOLID/SLUDGE	WIPE	OTHER	COMPOSITE	GRAB	CORE	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	SAMPLE AMOUNT	CONTAINER SIZE	ANALYSIS REQUESTED: BTEX/MTBE 8260 / TPH TX1005/TX1006	Metals 8 / 11 / 12 / 13 / TCLP / SPLP / Total	PAH / SVOC / 8270 / 625.1 / TCLP / SPLP / Total	VOC / 8260 / 624.1 / TCLP / SPLP / Total	Water Quality - Drinking / Livestock / Irrigation	Coli / TC / FC / HPC / EColi / Enterococci / C-Tray	Br / Cl / F / NO3 / NO2/O-P / SO4	Herb 8151A	PCB/8082A - Pest / 608.3 / 8081A / TCLP / SPLP / Total	Soil Analysis per file See attached ESS	PRESERVED WITH: [ICE] 3 0ZN 3 0ZS 3 0ZNa2S2O3 3 mL HNO3 2 0Z	PRESERVED IN THE LAB	COMPOSITED IN THE LAB	FILTERED IN THE LAB	VOA AIR BUBBLES	REMARKS
1	1-22-25	9:45						X			X				Soil 0-6"	1	1QT	1QT								X							
2	1-22-25	9:45						X			X				Soil 6-18"	1	1QT	1QT								X							
3	1-22-25	9:45						X			X				Soil 18-30"	1	1QT	1QT								X							
ESS 4	1-22-25	10:30		X							X				Waste Water / Permit	6											X						

RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME
Ernest Sandoval	1-22-25 1355		JAN 22 2025				
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME
Ernest Sandoval		Aimee Chandler	1355				
RELINQUISHED BY (SIGNATURE)	DATE / TIME	RECEIVED BY (SIGNATURE)	DATE / TIME	METHOD OF SHIPMENT Hand		SUBCONTRACTED ☐ YES ☑ NO	
RELINQUISHED BY (PRINT NAME)	DATE / TIME	RECEIVED BY (PRINT NAME)	DATE / TIME	BULK ☐ (Initial) 5035 ☐ N/A ☑		CUSTODY SEAL IN PLACE & INTACT ☐ YES ☐ NO	

FORM: COC REV 09/2022

WHITE - LAB CANARY - CLIENT

Project Information

Printed: 01/22/2025 2:28 pm

Texas Parks and Wildlife Department - Garner

234 RR 1050
ConCan, TX 78838
Laboratory PM: Marissa Esquivel

nd Wildlife De
Phone: (830) 834-0513
Fax: -

Project Name: Annual Soil / Irrigation Field
Project Number: 1
Client PM: Ernest Samples
Comments:

Invoice To: Texas Parks & Wildlife
Invoice Bid: Garner - Annual Soil
Invoice Manager: Accounts Payable

Analysis	Comment
Total Nitrogen	
TKN	
pH/Temp	
P_Mehlich-III	
Mehlich III Extraction	
K_Mehlich-III	
Conductivity	
Ammonia-N	

pH/Temp subanalyses:

Temp
pH

Total Nitrogen subanalyses:

NitriteN_IC
NitrateN_IC

04/14/21 New PO #2108

SAN ANTONIO TESTING LABORATORY

Sample Receipt Checklist

Client: Texas Parks and Wildlife Department - Garn	**Project Manager: Marcela Gracia Hawk**
Project: Annual Soil / Irrigation Field	**Project Number: [none]**

Report To:
Ernest Samples

SATL Report Number: 2501320

Work Order Due by:	01/31/25 17:00 (7 day TAT)		
Received By:	Aimee Landon	Date Received:	01/22/25 13:55
Logged In By:	Aimee Landon	Date Logged In:	01/22/25 14:25

Sample(s) Received on ICE/evidence of Ice (cooler with melted ice,etc):	*Yes*
Sample temperature at receipt *:	*1.6°C*
Custody Seals Present:	*No*
All containers intact:	*Yes*
Sample labels/COC agree:	*Yes*
Samples Received within Holding time :	*Yes*
Samples appropriately preserved **:	*Yes*
Containers received broken/damaged/leaking:	*No*
Air bubbles present in VOA vials for VOC/TPH analyses, if applicable:	*Not Applicable*
TRRP 13 Reporting requested?	*No*
BacT Sample bottles filled to volume (100mL mark), if applicable:	*Not Applicable*
LCR Sample bottles filled to volume (1 Liter mark), if applicable:	*Not Applicable*
Subcontracting required for any analyses:	*No*
RUSH turnaround time requested:	*No*
Requested Turnaround Time:	*No*
Samples delivered via :	*Hand Delivered*
Air bill included if Samples were shipped:	*No*
Other deviations not meeting SATL sample acceptance criteria notated on CoC:	*None*

Notes:
** Samples delivered to the laboratory on the same day that they are collected may not meet thermal preservation criteria (>0°C but <6°C) but are acceptable, if they arrive on ice.*
*** If improperly preserved, notate client authorization on CoC to proceed with analysis.*

Checked By : *Aimee Landon* Date : *01/22/25 13:55*

SATL#FO001
Revised 09/15/2022

Rainee Trevino

From: Madelyn Flores <Madelyn.Flores@tpwd.texas.gov>
Sent: Monday, March 24, 2025 10:52 AM
To: Rainee Trevino
Cc: Stephen Abbott; Terry Jenkins
Subject: Application for Renewal Permit No. WQ0011962001-Texas Parks and Wildlife Department- Notice of Deficiency Letter
Attachments: Administrative Report 1.0, Section 3 - Garner State Park.pdf; Administrative Report 1.0, Section 14, Signature Page - Garner State Park.pdf; Notarized Administrative Report - Garner State Park.pdf; Core Data Form, Section III - Garner State Park.pdf; English and Spanish Plain Language Summary - Garner State Park.docx; Municipal Disposal Renewal Spanish NORI - Garner State Park.docx; NOD Response - Garner State Park.pdf

Categories: NOD Response Review

Good morning Ms. Trevino,

I have attached our response to the Notice of Deficiency Letter for the Garner State Park permit renewal application (Permit No. WQ0011962001) and the associated documents. The complete response will be hand-delivered today to:

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

Please let us know if any additional information is required.

Thank you,

Madelyn Flores
Program Specialist
Facilities Management
Texas Parks and Wildlife Department

TEXAS PARKS & WILDLIFE

Life's better outside.®

Commissioners

Jeffery D. Hildebrand
Chairman
Houston

Oliver J. Bell
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Cleveland

James E. Abell
Kilgore

Wm. Leslie Doggett
Houston

Paul L. Foster
El Paso

Anna B. Galo
Laredo

Robert L. "Bobby" Patton, Jr.
Fort Worth

Travis B. "Blake" Rowling
Dallas

Dick Scott
Wimberley

Lee M. Bass
Chairman-Emeritus
Fort Worth

T. Dan Friedkin
Chairman-Emeritus
Houston

David Yoskowitz, Ph.D.
Executive Director

March 24, 2025

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

Re: Application to Renew Permit No.: WQ0011962001
Applicant Name: Texas Parks and Wildlife Department (CN600134852)
Site Name: Garner State Park Wastewater Treatment Plant (RN102916871)
Type of Application: Renewal

VIA EMAIL

Dear Ms. Trevino

We received your letter with six issues raised that need to be resolved before you can declare our permit renewal application administratively complete. Below we list each issue and our response.

1. Administrative Report 1.0, Section 3, Item A: Please provide a revised application with the correct legal name of the applicant.

   TPWD Response – Please see Attachment 1 for a revised Section 3.

2. Administrative Report 1.0, Section 14, Signature Page: The signature date and notary date do not match. Please submit a new notarized signature page.

   TPWD Response – Attachment 2 is a new notarized signature page. Attachment 3 is the full notarized Administrative Report.

3. Core Data Form, Section III, Item #23-28: An address and a physical location description have both been provided. Please confirm if the address provided is the correct and official address for the wastewater treatment facility. If it is not the correct address, please provide a revised physical location description. The current description has an error in one of the Farm-to-Market Road numbers. Only an address or description is needed.

   TPWD Response – Section III of the Core Data Form is updated in Attachment 4 to only include the address of the wastewater treatment facility.

4200 SMITH SCHOOL ROAD
AUSTIN, TEXAS 78744-3291
512.389.4800
www.tpwd.texas.gov

4. Plain Language Summary (PLS): The Plain Language Summaries submitted both in English and Spanish have the incorrect number of acres. The Spanish summary has a sentence in blue italics as part of the instructions. Please submit revised summaries both in English and Spanish with the correct acreage and without the instructions in blue italics.

   TPWD Response – Please see Attachment 5 for the corrected English and Spanish Plain Language Summaries.

5. 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.

   TPWD Response – We have reviewed the provided portion of the NORI and confirm that it does not contain any errors or omissions. The content is accurate and complete.

6. 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.

   TPWD Response - The NORI has been translated into Spanish, with the first and last paragraphs translated specifically for this application. The translated Spanish NORI is provided as Attachment 6.

Please feel free to contact me at stephen.abbott@tpwd.texas.gov

Sincerely,

Stephen C. Abbott
TCEQ Coordinator
State Parks Division

SCA

Enclosure(s)

Attachment 1 – Administrative Report 1.0, Section 3 – Garner State Park

Attachment 2 – Administrative Report 1.0, Section 14, Signature Page – Garner State Park

Attachment 3 – Notarized Administrative Report – Garner State Park

Attachment 4 – Core Data Form, Section III – Garner State Park

Attachment 5 – English and Spanish Plain Language Summary – Garner State Park

Attachment 6 – Municipal Disposal Renewal Spanish NORI – Garner State Park

cc: Mr. Terry Jenkins, Utility Plant Operator, Garner State Park, 234 Ranch Road 1050, Concan, Texas 78838

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 11962001

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

Expiration Date: May 1, 2025

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

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

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

TPWD Garner State Park

(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: 600134852

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: Rhodes, Justin

Title: Deputy Director – State Parks Division Credential: N/A

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?

N/A

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011962001

Applicant: TPWD Garner State Park

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): Justin Rhodes

Signatory title: Deputy Director – State Parks Division

Signature: _____ Date: 3-24-25

(Use blue ink)

Subscribed and Sworn to before me by the said Justin Rhodes

on this 24th day of March, 2025.

My commission expires on the 19th day of October, 2027.

_____

Notary Public

ELIZABETH ANN HIBBS
Notary Public, State of Texas
Comm. Expires 10-19-2027
Notary ID 12621935-9

[SEAL]

Travis

County, Texas

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 389-4665		( ) -

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.)*

TPWD Garner State Park

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	234 Ranch Road 1050							
	City	Concan	**State**	TX	**ZIP**	78838	**ZIP + 4**	
24. County	Uvalde							

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

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

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

27. Latitude (N) In Decimal:	29.604824		**28. Longitude (W) In Decimal:**	-99.741876	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	36	17.3364	-99	44	30.7536

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)
7033		721211	

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

State Park

34. Mailing Address:	**TCEQ Coordinator**							
	4200 Smith School Road							
	City	**Austin**	**State**	**TX**	**ZIP**	**78744**	**ZIP + 4**	
35. E-Mail Address:	**stephen.abbott@tpwd.texas.gov**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 389-4665		( ) -

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
DOMESTIC WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Texas Parks and Wildlife Department (TPWD) (CN600134852) operates Garner State Park Wastewater Treatment Facility (RN102462215), a pond system. The facility is located at 234 Ranch Road 1050, in Concan, Uvalde County, Texas 78838. This is an application to renew the current permit without any changes and allow the disposal of treated domestic wastewater effluent at a daily average flow that will not exceed 0.060 million gallons per day (MGD) via surface irrigation of 20 acres of nonpublic access pastureland. This permit will not authorize the discharge of pollutants into water in the state.

Discharges from the facility are expected to contain no pollutants. Domestic wastewater is treated by a pond system. Treatment units in the pond system include a facultative lagoon, two stabilization ponds, and two effluent holding ponds.

AGUAS RESIDUALES DOMESTICAS /**AGUAS PLUVIALES**

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

El Departamento de Parques y Vida Silvestre de Texas (TPWD) (CN600134852) opera TPWD Garner State Park Wastewater Treatment Facility (RN102462215), un sistema de estanques. La instalación está ubicada en 234 Ranch Roach 1050, en Concan, Condado de Uvalde, Texas 78838. Esta es una solicitud para renovar el permisio actual sin ningún cambio y permitir la la disposición de efluente de aguas residuales domésticas tratadas a un flujo promedio diario que no excederá 0.060 millones de galones por día (MGD) a través de riego superficial de 20 acres de tierras de pastoreo sin acceso público. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuals domésticas . está tratado por Se espera que las descargas de la instalación no contengan contaminantes. Las aguas residuales domésticas son tratadas por un sistema de estanques. Las unidades de tratamiento en el sistema de estanques incluyen una laguna facultativa, dos estanques de estabilización y dos estanques de retención de efluentes .

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD E
INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
RENOVACION

PERMISO NO. WQ0011962001

SOLICITUD. El Departamento de Parques y Vida Silvestre de Texas (TPWD), 4200 Smith School Road, Austin, Texas 78744 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el Permiso No. WQ0011962001 la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 60,000 galones por día por medio de 20 acres de tierras de pastizales sin acceso público. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 237 Rand Road 1050, cerca de la ciudad de Concan en el Condado de Uvalde, Texas. La TCEQ recibió esta solicitud el 24 de febrero de 2024 . La solicitud para el permiso estará disponible para leerla y copiarla en la recepción de las oficinas centrales del Garner State Park, 234 Ranch Roach 1050, Concan, en el Condado de Uvalde, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-99.740277,29.6&level=18

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

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

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. *[For renewal applications that **do not** include a major amendment, include the following sentence:]* **Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

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

CONTACTOS E INFORMACIÓN 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 Departamento de Parques y Vida Silvestre (TPWD) a la dirección indicada arriba o llamando a Sr. Kelby Bridwell*, Superintendente del parque* al 830-384-0321.

Fecha de emisión _____ *[Date notice issued]*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: TPWD Garner State Park

PERMIT NUMBER (If new, leave blank): WQ00WQ0011962001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: See Cover Letter

Check/Money Order Amount: See Cover Letter

Name Printed on Check: See Cover Letter

EPAY — Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐ See Cover Letter

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Water Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 11962001

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

Expiration Date: May 1, 2025

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

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

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

TPWD Garner State Park c/o TCEQ Coordinator

(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: 600134852

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: Rhodes, Justin

Title: Deputy Director – State Parks Division Credential: N/A

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?

N/A

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

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

CN: N/A

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

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

Title: N/A Credential: N/A

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. Attachment A1

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Abbott, Stephen

Title: TCEQ Coordinator Credential: Click to enter text.

Organization Name: TPWD

Mailing Address: 4200 Smtih School Road City, State, Zip Code: Austin, TX, 78744

Phone No.: 512-389-4665 E-mail Address: stephen.abbott@tpwd.texas.gov

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Samples, Ernest

Title: Utility Plant Operator Credential: Click to enter text.

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, TX, 78838

Phone No.: 830-232-6132 E-mail Address: ernest.samples@tpwd.texas.gov

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Abbott, Stephen

Title: TCEQ Coordinator Credential: Click to enter text.

Organization Name: TPWD

Mailing Address: 4200 Smtih School Road City, State, Zip Code: Austin, Texas, 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

B. Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

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: Ms. Last Name, First Name: Lewis, Melanie

Title: Administrative Assistant Credential: N/A

Organization Name: TPWD – State Parks Division

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas, 78744

Phone No.: 512-389-8083 E-mail Address: melanie.lewis@tpwd.texas.gov

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: Samples, Ernest

Title: Utility Plant Operator Credential: WW0063146

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-232-6132 E-mail Address: ernest.samples@tpwd.tecxas.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan, Texas, 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Bridwell, Kelby

Title: Park Superintendent Credential: N/A

Organization Name: TPWD Garner State Park

Mailing Address: 234 Ranch Road 1050 City, State, Zip Code: Concan. Texas. 78838

Phone No.: 830-834-0321 E-mail Address: kelby.bridwell@tpwd.texas.gov

D. Public Viewing Information

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

Public building name: Click to enter text.

Location within the building: Click to enter text.

Physical Address of Building: Click to enter text.

City: Click to enter text. County: Click to enter text.

Contact (Last Name, First Name): Click to enter text.

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

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☐ No

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

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: Attachment A2

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102462215

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):

Garner State Park Wastewater Treatment Plant

C. Owner of treatment facility: Texas Parks and Wildlife Department (TPWD) c/o TCEQ Coordinator

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

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

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

Title: N/A Credential: N/A

Organization Name: TPWD

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

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: Texas Parks and Wildlife Department (TPWD) c/o TCEQ Coordinator

Title: N/A Credential: N/A

Organization Name: N/A

Mailing Address: 4200 Smith School Road City, State, Zip Code: Austin, Texas 78744

Phone No.: 512-389-4665 E-mail Address: Stephen.abbott@tpwd.texas.gov

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

Attachment: N/A

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

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

Title: N/A Credential: N/A

Organization Name: N/A

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

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

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

Attachment: N/A

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

N/A

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

☐ Yes ☐ No

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

N/A

City nearest the outfall(s): N/A

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

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: Concan

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

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

From the plant site through a 6-inch diameter pipe to the effluent holding ponds: thence through an 8-inch pipe to the irrigation pumps, thence through a 3-inch pipe to the irrigation fields.

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

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: Attachment A1 – Core Data Form, Attachment A2- Plain Language Summary, Attachment A3 – USGS Map

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0011962001

Applicant: TPWD Garner State Park

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): Justin Rhodes

Signatory title: Deputy Director – State Parks Division

Signature: _____ Date: 3-24-25

(Use blue ink)

Subscribed and Sworn to before me by the said Justin Rhodes

on this 24th day of March, 2025.

My commission expires on the 19th day of October, 2027.

_____

Notary Public

ELIZABETH ANN HIBBS
Notary Public, State of Texas
Comm. Expires 10-19-2027
Notary ID 12621935-9

[SEAL]

Travis

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

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

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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

Summary of Application (in Plain Language) ☒ Yes

Alan Barraza

From: Madelyn Flores <Madelyn.Flores@tpwd.texas.gov>
Sent: Tuesday, March 18, 2025 10:18 AM
To: Alan Barraza; Hannah Zellner; Rainee Trevino
Cc: Stephen Abbott; Ernest Samples
Subject: Re: WQ0011962001 Preliminary NOD
Attachments: Annual Cropping Plan - Garner State Park.docx; Pond Liner Documnets - Garner State Park.pdf; USDA Soil Map - Garner State Park.pdf; Worksheet 3.0 Section 2 - Garner State Park.pdf; 11962-001.rfai.mar2025_RESPONSE.docx

Good morning,

Please find attached our response to the identified deficiencies and the associated documents.

Please let us know if anything else is needed.

Thank you,

Madelyn Flores
Program Specialist
Facilities Management
Texas Parks and Wildlife Department

From: Stephen Abbott <Stephen.Abbott@tpwd.texas.gov>
Sent: Wednesday, March 5, 2025 1:51 PM
To: Madelyn Flores <Madelyn.Flores@tpwd.texas.gov>
Subject: FW: WQ0011962001 Preliminary NOD

Stephen C. Abbott
TCEQ Compliance & Water Planning Coordinator
Facilities Management
Texas Parks and Wildlife Department
Office- 512-389-4665
Cell 512-578-6371

From: Alan Barraza <Alan.Barraza@tceq.texas.gov>
Sent: Tuesday, March 4, 2025 1:45 PM
To: Stephen Abbott <Stephen.Abbott@tpwd.texas.gov>; Ernest Samples <Ernest.Samples@tpwd.texas.gov>
Cc: Hannah Zellner <Hannah.Zellner@Tceq.Texas.Gov>; Rainee Trevino <Rainee.Trevino@tceq.texas.gov>
Subject: WQ0011962001 Preliminary NOD

Some people who received this message don't often get email from alan.barraza@tceq.texas.gov. Learn why this is important

ALERT: This email came from an external source. Do not open attachments or click on links in unknown or unexpected emails.

Good afternoon,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Please send updated technically complete and accurate information within **14 days** (March 18th) of the date of this email.

Any revisions can be sent electronically to myself or Hannah Zellner, P.G. (cc'd on this email). Please let us know if you have any questions.

Alan Barraza
Agronomist | Water Quality Assessment
TCEQ | Water Quality Division | MC 150
Direct: 512-239-4642
Fax: 512-239-4420

12100 Park 35 Circle
Austin, TX 78753

TEXAS PARKS AND WILDLIFE DEPARTMENT – GARNER STATE PARK WWTF
APPLICATION FOR PERMIT RENEWAL
PERMIT NO. WQ0011962001
Technical Completeness Review

GEOLOGY & GROUNDWATER

1. Domestic Worksheet 3.0, Section 3. Storage and Evaporation Lagoons/Ponds – Please include information for all ponds onsite including the Facultative Lagoon and Stabilization Ponds 1 and 2 in the table. Attachment T4 includes designs for the holding ponds, but it does not include information on the pond liners. The Facultative Lagoon and Stabilization Ponds 1 and 2 appear to have been built between 2014 and 2018, based on aerial imagery, as part of the final phase of the permit. Please submit any pond liner information available for these ponds that documents how the liners meet the requirements in §217.203 and §309.13(d) since the ponds overly the recharge zone of an aquifer.

   Please find documents to support the pond liners meeting the requirements in §217.203 and §309.13(d) as "Pond Liner Documents – Garner State Park."

SOILS & AGRONOMY

1. Domestic Worksheet 3.0, Section 2. Land Application: Please specify a warm and cool season crop if year-round application is intended. Bermuda grass and "other grasses" are considered only warm season crops.

   The Texas Parks and Wildlife Department does not cultivate specific crops on the effluent irrigation field, as no set quantity is planted per acre for grazing or harvesting. However, the irrigation field primarily consists of Bermuda grass and other naturally occurring native grasses, which may include warm and/or cool-season grasses. The table has been updated to reflect that other native grasses are included in the cover crop type in the attachment "Worksheet 3.0 Section 2 – Garner State Park."

2. Domestic Worksheet 3.0, Section 5. Annual Cropping Plan – All grasses are considered crops for a Texas Land Application Permit. Please submit a cropping plan answering all bullets listed on the application.

   a. A warm and cool season crop species must be listed if year-round irrigation is intended.
   b. Yield goal is specific to the crop and available nutrients in the effluent.
   c. All crops (grasses) have growing seasons, nutrient requirements, and salt tolerances
   d. Mowing with clippings removal is considered a form of harvesting; please specify grass height range when mowing.

   The updated Annual Cropping Plan is attached as "Annual Cropping Plan – Garner State Park."

3. Domestic Worksheet 3.0, Section 8.A. Soil Map – Please submit a USDA soil survey map depicting the actual 20 acre application area.

   Please find the updated soil map attached as "USDA Soil Map – Garner State Park."

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Subsurface application
- ☒ Irrigation
- ☐ Subsurface soils absorption
- ☐ Drip irrigation system
- ☐ Subsurface area drip dispersal system
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

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

For existing authorizations, provide Registration Number: 102462215

Section 2. Land Application Site(s) (Instructions Page 67)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Bermuda and other native grasses on non-public access land.	20	0.06	N

Annual Cropping Plan – Garner State Park

The irrigation field consists of Bermuda and other native grasses, which are both cool- and warm-season plant species that grow in Garner State Park's typical season. TPWD does not utilize cropping on the effluent field in that no set quantity of crop is planted per acre with the intention of grazing or harvesting for a set yield. Irrigation with treated effluent currently takes place on 9.3 acres of land 900 feet north of the effluent storage ponds. The total existing irrigation area available is 20 acres.

The crop nutrient requirements are met by the effluent disposed of by irrigation. There are no additional fertilizer and supplemental watering requirements. Bermuda grass is relatively tolerant of high salt loadings. The salt concentration in the root zone is controlled by leaching.

The irrigation field is maintained at the natural height for native grasses and is mowed at intervals to provide proper park maintenance, safety, and fire control. Maintaining the natural native condition of the field supports local ecosystems and conserves resources. This approach aligns with the Texas Parks and Wildlife mission to manage and conserve the natural and cultural resources of Texas.

In summary:

Soil map with crops – see map attached

Crop yield goals and estimates – The field is not managed for specific yield as it is maintained in a natural condition rather than cultivated for harvesting or production.

Cool and warm season plant species – Bermuda and other native grasses

Crop Growing season – year-round

Crop nutrient requirements – met by effluent disposed of by irrigation

Minimum/ Maximum harvest height – maintained at the natural height for native grasses and is mowed at intervals to provide proper park maintenance, safety, and fire control

Additional fertilizer requirements – no additional fertilizer is required

Supplemental watering requirements – no supplemental watering is required

Crop Salt tolerances – no difficulties presented by salt tolerances

Harvesting method/ number of harvests- as needed to maintain natural height for native grasses

Justification for not removing existing vegetation to be irrigated – field is maintained in natural native condition to meet Garner State Park’s operation needs and the mission of TPWD

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Uvalde County, Texas

March 12, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:2,740 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Uvalde County, Texas
Survey Area Data: Version 22, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 18, 2021—Mar 26, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AtA	Atco loam, 0 to 1 percent slopes	0.4	2.0%
MoA	Montell clay, 0 to 1 percent slopes	17.2	97.9%
SpB	Speck association, 1 to 8 percent slopes	0.0	0.0%
Totals for Area of Interest		**17.5**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Uvalde County, Texas

AtA—Atco loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dj05
Elevation: 650 to 1,500 feet
Mean annual precipitation: 20 to 30 inches
Mean annual air temperature: 70 to 73 degrees F
Frost-free period: 215 to 265 days
Farmland classification: Farmland of statewide importance, if irrigated

Map Unit Composition

Atco and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Atco

Setting

Landform: Erosion remnants on stream terraces
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 72 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: B
Ecological site: R083AY019TX - Gray Sandy Loam
Hydric soil rating: No

MoA—Montell clay, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2sxv1
Elevation: 400 to 1,200 feet
Mean annual precipitation: 21 to 29 inches
Mean annual air temperature: 69 to 71 degrees F
Frost-free period: 250 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Montell and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Montell

Setting

Landform: Terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous clayey alluvium

Typical profile

Ap - 0 to 8 inches: clay
Bnss - 8 to 32 inches: clay
Bknss - 32 to 58 inches: clay
Bkny - 58 to 80 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 30 percent
Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum: 30.0
Available water supply, 0 to 60 inches: Moderate (about 7.4 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D

Ecological site: R083BY015TX - Saline Clay
Hydric soil rating: No

Minor Components

Uvalde
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083AY027TX - Western Clay Loam
Hydric soil rating: No

Knippa
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083BY017TX - Blackland
Hydric soil rating: No

Caid
Percent of map unit: 3 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R083AY027TX - Western Clay Loam
Hydric soil rating: No

Unnamed, hydric
Percent of map unit: 1 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

SpB—Speck association, 1 to 8 percent slopes

Map Unit Setting
National map unit symbol: 2t0sh
Elevation: 900 to 2,050 feet
Mean annual precipitation: 25 to 32 inches
Mean annual air temperature: 65 to 69 degrees F
Frost-free period: 240 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Speck and similar soils: 70 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Speck

Setting

Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Clayey residuum and/or slope alluvium derived from limestone

Typical profile

A - 0 to 7 inches: clay loam
Bt - 7 to 15 inches: clay
R - 15 to 40 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D
Ecological site: R081BY340TX - Redland 23-31 PZ
Hydric soil rating: No

Minor Components

Comfort

Percent of map unit: 12 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY337TX - Low Stony Hill 23-31 PZ
Hydric soil rating: No

Kavett

Percent of map unit: 7 percent

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY343TX - Shallow 23-31 PZ
Hydric soil rating: No

Topia

Percent of map unit: 6 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY328TX - Deep Redland 23-31 PZ
Hydric soil rating: No

Eckrant

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY337TX - Low Stony Hill 23-31 PZ
Hydric soil rating: No

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TEXAS PARKS & WILDLIFE

STATE OF TEXAS
CHASE BAROMEO, JR.
33061
LICENSED PROFESSIONAL ENGINEER

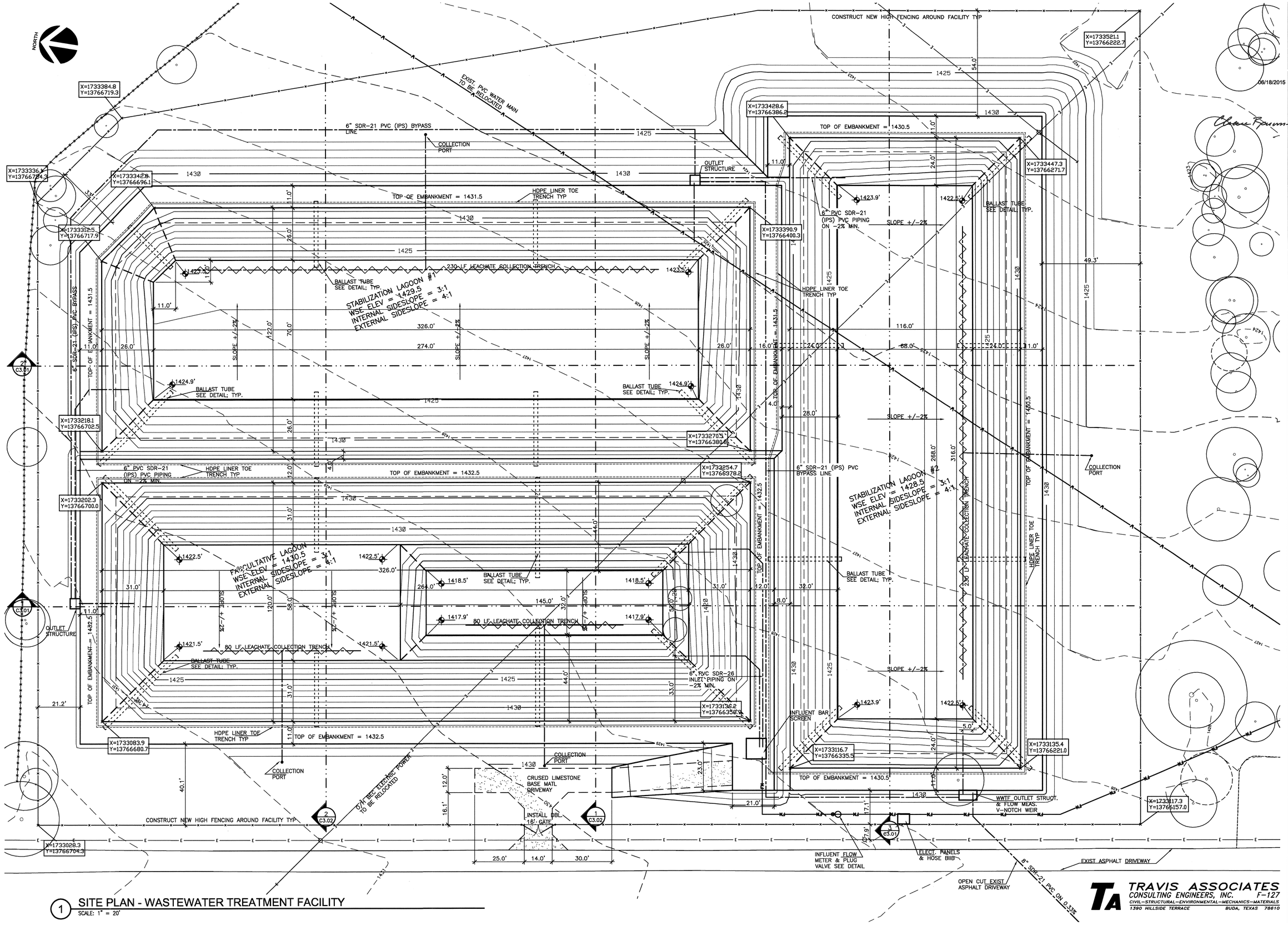
06/18/2015

GARNER STATE PARK
WASTEWATER TREATMENT PLANT REPLACEMENT
PROJECT NUMBER: 134236

DATE: 6/19/2015
DESIGNED BY: cb
DRAWN BY: jce
REVIEWED BY: cb
REVISED:
REVISED:
REVISED:

SHEET TITLE
SITE PLAN WWTF

SHEET NUMBER
C1.08
2976 WWTF.dwg



1 SITE PLAN - WASTEWATER TREATMENT FACILITY
SCALE: 1" = 20'

PATH: C:\Documents and Settings\Joe E\Projects\2976 Garner\Dwgs\2976 WWTF.dwg

TRAVIS ASSOCIATES
CONSULTING ENGINEERS, INC. F-127
CIVIL-STRUCTURAL-ENVIRONMENTAL-MECHANICS-MATERIALS
1390 HILLSIDE TERRACE BUDA, TEXAS 78610

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 24, 2015

Chase Baromeo, Jr., P.E., LS, M, ASCE
Travis Associates Consulting Engineers Inc
1390 Hillside Terrace
Buda, Texas 78610

Re: Texas Parks and Wildlife Department
Wastewater Treatment Plant Replacement/Garner State Park
Permit No. WQ0011962-001
WWPR Log No. 0715/063
CN 600134852, RN 102462215
Uvalde County

Dear Mr. Baromeo:

We have received the project summary transmittal letter dated July 6, 2015.

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems.

Section 217.6(d), relating to case-by-case reviews, states in part that upon submittal of a summary transmittal letter, the executive director may approve of the project without reviewing a complete set of plans and specifications.

Under the authority of §217.6(e) a technical review of complete plans and specifications is not required. **However, the project proposed in the summary transmittal letter is approved for construction. Please note, that this conditional approval does not relieve the applicant of any responsibilities to obtain all other necessary permits or authorizations, such as wastewater treatment permit or other authorization as required by Chapter 26 of the Texas Water Code.** Below are provisions of the Chapter 217 regulations, which must be met as a condition of approval. These items are provided as a reminder. If you have already met these requirements, please disregard this additional notice.

1. You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.6(c). Additionally, the engineering report must include all constants, graphs,

equations, and calculations needed to show substantial compliance with Chapter 217. The items which shall be included in the summary transmittal letter are addressed in §217.6(c)(1)-(10).

2. Any deviations from Chapter 217 shall be disclosed in the summary transmittal letter and the technical justifications for those deviations shall be provided in the engineering report. Any deviations from Chapter 217 shall be based on the best professional judgement of the licensed professional engineer sealing the materials and the engineer's judgement that the design would not result in a threat to public health or the environment.

3. Any variance from a Chapter 217 requirement disclosed in your summary transmittal letter is approved. If in the future, additional variances from the Chapter 217 requirements are desired for the project, each variance must be requested in writing by the design engineer. Then, the TCEQ will consider granting a written approval to the variance from the rules for the specific project and the specific circumstances.

4. Within 60 days of the completion of construction, an appointed engineer shall notify both the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date of completion. The engineer shall also provide written certification that all construction, materials, and equipment were substantially in accordance with the approved project, the rules of the TCEQ, and any change orders filed with the TCEQ. All notifications, certifications, and change orders must include the signed and dated seal of a Professional Engineer licensed in the State of Texas.

This approval does not mean that future projects will be approved without a complete plans and specifications review. The TCEQ will provide a notification of intent to review whenever a project is to undergo a complete plans and specifications review. Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions or if we can be of any further assistance, please call me at (512) 239-4552.

Sincerely,

Louis C. Herrin, III, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

LCH/kwm

cc: TCEQ, Region 13 Office

ACL is OK

TRAVIS ASSOCIATES
CONSULTING ENGINEERS, INC F-127
CIVIL — STRUCTURAL — ENVIRONMENTAL — MECHANICS — MATERIALS
AUSTIN DALLAS

7/24/2015

July 6, 2015

RECEIVED
JUL 24 2015 By Email
WATER QUALITY DIVISION
TCEQ

Mr. Louis C. Herrin III, P.E.
TCEQ - MC 148
P. O. Box 13087
Austin, Texas 78711-3087

0715/063

Re: Chapter 217.6 Summary Transmittal Letter
✓Permittee: TPWD/Garner State Park
✓Permit Number: TPDES WQ0011962001
Project Name: Wastewater Treatment Plant Replacement
County: Uvalde County

CN 600134852
RN 102462215

Dear Mr. Herrin:

The purpose of this letter is to provide the Texas Commission on Environmental Quality (TCEQ) with the information necessary to comply with the requirements of §217.6(c) of the TCEQ's rules entitled, "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS." The necessary information includes:

1. Engineering Firm
   Travis Associates Consulting Engineers, Inc.
   1390 Hillside Terrace
   Buda, Texas 78610
2. Design Engineer
   Chase Baromeo, Jr., PE
   512-295-3465 phone
   512-295-5414 fax
3. Entity that owns, operate and maintain project through its design life
   Texas Parks and Wildlife Department
   4200 Smith School Rd
   MC-80
   Austin, Texas 78744
   c/o Russell Fishbeck, Deputy Director – State Parks Division
4. Variances/Deviations to Chaper §217 are requested for this project
   a. §217.203(e)(2) The internal slopes of the ponds are greater than 4:1 but do not exceed 3:1. Our justification for utilizing slopes greater than 4:1, on the internal slopes only, is to provide sufficient excavated material for pond construction and avoiding mechanical pumping equipment of the pond effluent at the outfall. TPWD is moving to a natural treatment system to minimize operational costs and the maintenance on the internal slopes should be minimal due to the synthetic liner.

GK

TA

b. §217.205(d)(3) Facultative Recirculation: In keeping with TPWD goal to reduce operations and electrical consumption, a recirculation system was not included. Facultative lagoon outlet structure includes provisions for a future recirculation system if odors become a nuisance.

c. §217.207(b)(3) Stabilization Recirculation: In keeping with TPWD goal to reduce operations and electrical consumption, a recirculation system was not installed. Stabilization lagoon outlet structures includes provisions for a future recirculation system if odors become a nuisance.

d. §217.207(d)(3) Lagoon Depth. Bottom depth of the stabilization pond varies 4.5 ft to 6.0 ft to provide sufficient excavated material for pond embankment construction as identified in 4a above.

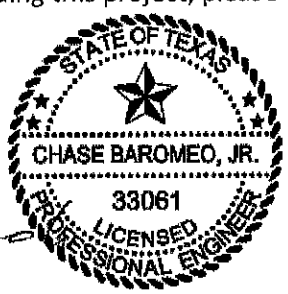
5. There are no innovative or nonconforming technologies being proposed as part of this project

6. Except as disclosed in item #4 above, the plans and specifications which describe the project identified in this letter are in substantial compliance with all the requirements of Chapter 217. Any deviations from Chapter 217 (or 317 if chosen in '4') which are a part of the project are based on the best professional judgment of the professional engineer who prepared the project plans, specifications and final engineering design report for this project.

7. Project Scope
The proposed project includes:
   a. Construction of a new 60,000 gallon per day facultative lagoon and stabilization ponds wastewater treatment facility. All ponds will be lined with 60 mil hdpe liner.
   b. Installation of an influent bar screen and effluent flow measurement weir.
   c. Replacement of an existing lift station with a new duplex grinder lift station capable of 116 gpm.
   d. Replacement of 4400 lf of 5" force main with 4" SDR-21 PVC force main.

If you have any questions regarding this project, please contact Chase Baromeo, Jr., PE (512-295-3465, Fax 512-295-5414)

Sincerely,



Chase Baromeo, Jr., PE

xc: Lynn Bumguardner, TCEQ Region 13 Water Section Manager,
<lynn.bumguardner@tceq.texas.gov>

TEXAS PARKS AND WILDLIFE

SUBMITTAL COVER SHEET

Texas Parks and Wildlife Department
Infrastructure Division
4200 Smith School Road
Austin, Texas 78744

SUBMITTAL NO. 3
Package No. _____
Revision No. _____

SUBMITTAL NAME: NONWOVEN GEOTEXTILE NO. OF COPIES: 1

PROJECT DESCRIPTION: GARNER STATE PARK WASTEWATER PLANT REPLACEMENT DATE: JAN. 18, 2016

PROJECT NUMBER: 134236 CONTRACT NUMBER: 474344 SPEC. SECTION: 02710

PROJECT SITE: GARNER STATE PARK

CONTRACTOR: Todd Neff	OWNER'S REPRESENTATIVE: Joe Etzler
Texas Water & Soil Co. Inc.	Travis Associates
2908 West FM 2105	1390 Hillside Terrace
San Angelo, Texas 76901	Buda, Texas 78610

NOTE: Review does not relieve contractor from responsibility for errors on submittals and for deviations from drawings and specifications unless he notifies Texas Parks and Wildlife in writing and received written approval. Drawing and specifications changes are NOT authorized by approval of submittals.

ROUTING AND ACTION:

Contractor

- ☑ Submittals checked for compliance
- ☑ Submittals sent to Texas Parks and Wildlife
- ☑ Copy of Submittal Form sent to Parks and Wildlife

Todd Neff — By — 1-18-16 — Date

Architect/Engineer

- ☐ No exceptions taken
- ☒ Furnish with revisions as noted
- ☐ Revise and resubmit
- ☐ Rejected – See Remarks

[illegible] PE — By — Jan 19, 2016 — Date

Parks and Wildlife

- ☑ Reviewed
- ☐ Exceptions noted
- ☐ Submit additional data
- ☐ Revise and resubmit
- ☐ Rejected – See Remarks

[signature] — By — 2-26-16 — Date

Submittals reviewed and distributed as follows:

- ___ Architect/Engineer
- ___ Contractor
- ___ Project File
- ___ Project Inspector
- ___ Construction Manager
- ___ Project Manager

Distributed By — Date

COMMENTS: ** NWB is the specified Geotextile Fabric JCE

By — Date

Submittal Cover Sheet (05/2006)

E

TEXAS PARKS AND WILDLIFE

SUBMITTAL COVER SHEET

Texas Parks and Wildlife Department
Infrastructure Division
4200 Smith School Road
Austin, Texas 78744

SUBMITTAL NO. 6
Package No. _____
Revision No. _____

SUBMITTAL NAME: GEOMENBRANE POND LINER
NO. OF COPIES: 1
PROJECT DESCRIPTION: GARNER STATE PARK WASTEWATER PLANT REPLACEMENT
DATE: JAN. 18, 2016
PROJECT NUMBER: 134236 CONTRACT NUMBER: 474344
SPEC. SECTION: 02770
PROJECT SITE: GARNER STATE PARK

CONTRACTOR: Todd Neff	OWNER'S REPRESENTATIVE: Joe Etzler
Texas Water & Soil Co. Inc.	Travis Associates
2908 West FM 2105	1390 Hillside Terrace
San Angelo, Texas 76901	Buda, Texas 78610

NOTE: Review does not relieve contractor from responsibility for errors on submittals and for deviations from drawings and specifications unless he notifies Texas Parks and Wildlife in writing and received written approval. Drawing and specifications changes are NOT authorized by approval of submittals.

ROUTING AND ACTION:

Contractor

- ☑ Submittals checked for compliance
- ☑ Submittals sent to Texas Parks and Wildlife
- ☑ Copy of Submittal Form sent to Parks and Wildlife

Todd Neff — By — 1-18-16 — Date

Architect/Engineer

- ☐ No exceptions taken
- ☒ Furnish with revisions as noted
- ☐ Revise and resubmit
- ☐ Rejected – See Remarks

By — PE — Jan 19, 2016 — Date

Parks and Wildlife

- ☑ Reviewed
- ☐ Exceptions noted
- ☐ Submit additional data
- ☐ Revise and resubmit
- ☐ Rejected – See Remarks

By — 1-27-16 — Date

Submittals reviewed and distributed as follows:

- ___ Architect/Engineer
- ___ Contractor
- ___ Project File
- ___ Project Inspector
- ___ Construction Manager
- ___ Project Manager

Distributed By — Date

COMMENTS: ** Product Shall be Smooth 60 mil GSE HD. JCE

By — Date

Submittal Cover Sheet (05/2006)

TEXAS PARKS AND WILDLIFE

SUBMITTAL COVER SHEET

Texas Parks and Wildlife Department
Infrastructure Division
4200 Smith School Road
Austin, Texas 78744

SUBMITTAL NO. __6____
Package No. _____
Revision No. _____

SUBMITTAL NAME:_GEOMENBRANE POND LINER_____ NO. OF COPIES: __1_____

PROJECT DESCRIPTION:_GARNER STATE PARK WASTEWATER PLANT REPLACEMENT_ DATE: JAN. 18, 2016_____

PROJECT NUMBER:_134236_____ CONTRACT NUMBER: _474344_____ SPEC. SECTION:_02770___

PROJECT SITE:_GARNER STATE PARK_____

CONTRACTOR: Todd Neff	**OWNER'S REPRESENTATIVE:** Joe Etzler
Texas Water & Soil Co. Inc.	Travis Associates
2908 West FM 2105	1390 Hillside Terrace
San Angelo, Texas 76901	Buda, Texas 78610

NOTE: **Review does not relieve contractor from responsibility for errors on submittals and for deviations from drawings and specifications unless he notifies Texas Parks and Wildlife in writing and received written approval. Drawing and specifications changes are NOT authorized by approval of submittals.**

ROUTING AND ACTION:

Contractor

- ☑ **Submittals checked for compliance**
- ☑ **Submittals sent to Texas Parks and Wildlife**
- ☑ **Copy of Submittal Form sent to Parks and Wildlife**

Todd Neff 1-18-16
By Date

Architect/Engineer

- ☐ **No exceptions taken**
- ☐ **Furnish with revisions as noted**
- ☐ **Revise and resubmit**
- ☐ **Rejected – See Remarks**

_____
By Date

Parks and Wildlife

- ☐ **Reviewed**
- ☐ **Exceptions noted**
- ☐ **Submit additional data**
- ☐ **Revise and resubmit**
- ☐ **Rejected – See Remarks**

_____
By Date

Submittals reviewed and distributed as follows:

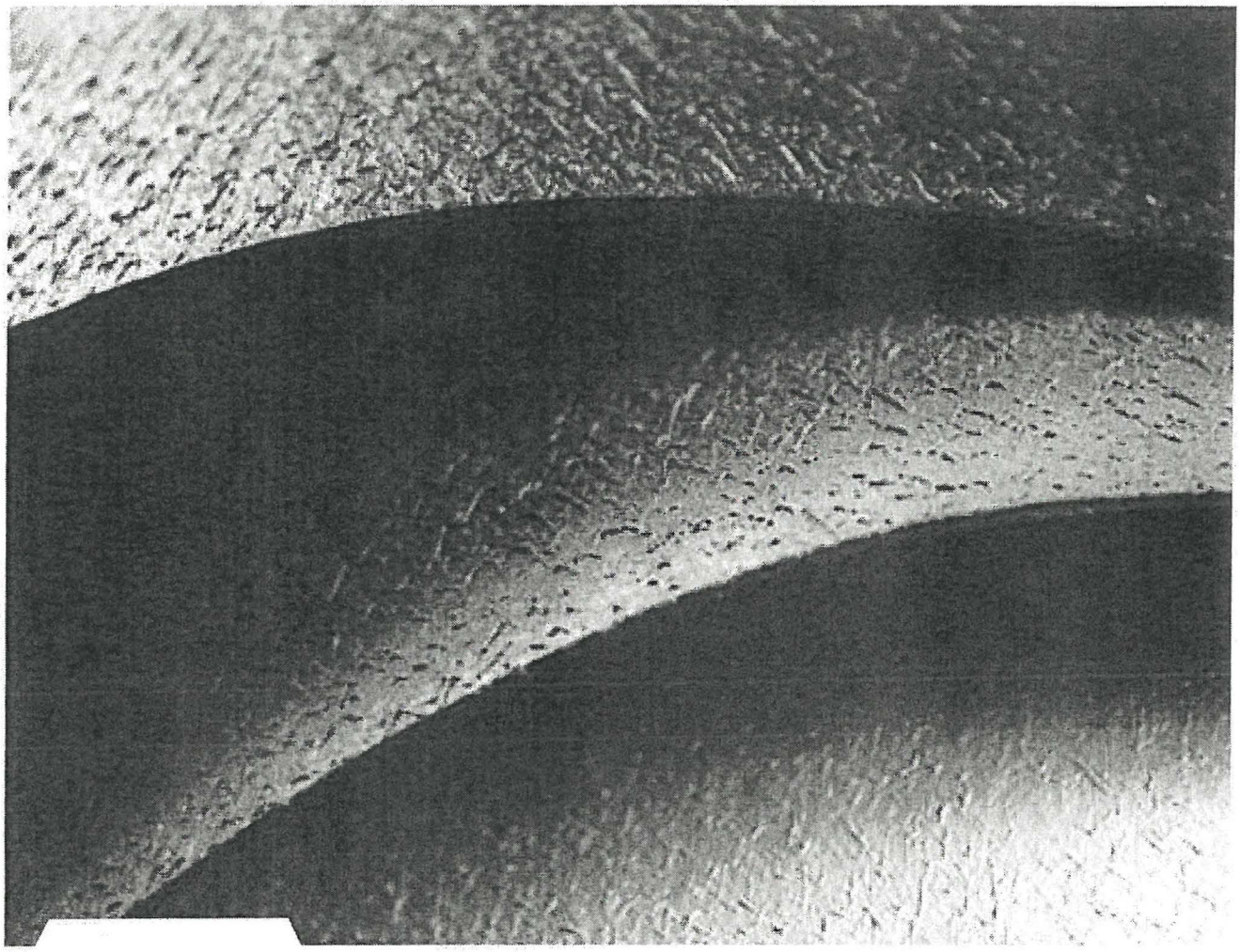
___ Architect/Engineer
___ Contractor
___ Project File
___ Project Inspector
___ Construction Manager
___ Project Manager

_____
Distributed By Date

COMMENTS: _____

_____
By Date

E



GSE
ENVIRONMENTAL™

GEOMEMBRANE PRODUCTS
MANUFACTURING QUALITY ASSURANCE MANUAL

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1.0 INTRODUCTION

This manual provides an overview of the GSE Manufacturing Quality Assurance Program for geomembrane products. It is intended for use by GSE's customers to enhance their understanding of the quality system under which GSE geomembrane products are manufactured.

2.0 COMMITMENT TO QUALITY

GSE is committed to meeting or exceeding customer's requirements and industry standards. This commitment to quality is established through a documented quality management system, continuous employee training, investment in technology and emphasis on process control. GSE has allocated resources to ensure that this commitment to quality translates into the best products and services for its customers.

3.0 MANUFACTURING QUALITY ASSURANCE

GSE has an on-site quality assurance laboratory at each manufacturing facility worldwide. Each facility has a fully equipped, well staffed, dedicated laboratory with strict guidelines to maintain a high level of quality and up-to-the-minute results on GSE's finished products.

GSE has a rigorous set of minimum standards and an effective test program to assure compliance has been established. These procedures and requirements are frequently reviewed and adjusted to assure compliance with current market demands and/or predetermined project specifications. Also raw materials and process parameters are controlled to provide products complying with GSE's minimum characteristics and regulatory standards.

4.0 MANUFACTURING QUALITY ASSURANCE ORGANIZATION

GSE quality assurance department assures that only products meeting GSE and/or the customer's requirements are released for shipment. The quality assurance personnel are directly responsible for monitoring, testing, and providing feedback to the manufacturing department ensuring the production of the specified product quality. Each member of the quality assurance team must participate in detailed training that includes factory exposure.

The GSE quality assurance team consists of the manufacturing quality assurance laboratories, engineering staff and manufacturing personnel. The combination of expertise and experience from these groups provide GSE with the proper tools to maintain the highest level of product quality and customer service in the industry.

5.0 STAFF & SCHEDULING

The quality assurance laboratories are staffed during any manufacturing run. A continuous communication link is maintained between the laboratory and manufacturing personnel, maximizing production efficiency and product quality.

6.0 PRODUCT IDENTIFICATION & DOCUMENTATION

A. Roll Numbering

Each roll of geomembrane is assigned a unique roll number. The quality assurance laboratory maintains records documenting the raw materials and resulting product quality information.

B. Approval Procedure

Results for each tested roll of product are checked against GSE and/or customer's specifications for compliance. The quality assurance laboratory approves those materials that meet both of these requirements for shipment.

C. Non-Conformance

Material that does not meet GSE's minimum standards is given a roll number, but is rejected and separated from the approved material. The rejected material is identified as non-conformaning and will not be used. Material that meets GSE's minimum standards, but does not meet a stricter customer's specifications will not be allocated to that customer, but will be placed into inventory as a GSE's standard material.

D. Documentation

Quality assurance certificates are generated and supplied for each roll of geomembrane product to include all relevant quality assurance information about the material.

7.0 RECORDS RETENTION

GSE maintains reports and/or samples for products produced and sold. Records and/or samples are maintained according to GSE's standard retention policy as outlined below.

MATERIAL	ITEM	YEAR
Raw Materilas	Resin Supplier Test Reports and Certifications GSE Resin Test Reports Resin Sample Retain (Archive)	≥ 2 ≥ 2 ≥ 2
Geomembranes	Raw Test Datat (in computer database) Quality Control Certificates Sample Retain (approximately one square foot)	≥ 5 ≥ 5 ≥ 5

8.0 TESTING CAPABILITIES

GSE maintains high capacity, state-of-the-art laboratory equipment suitable for performing the procedures in Houston, Texas. The quality assurance laboratory is accredited by the GAI-LAP Program. The appropriate certificates are maintained for review upon request by authorized parties.

A. Routine Testing

GSE has developed a strict and thorough quality assurance program, which exceeds all industry's standards and/or customer's specifications including GRI GM13, "Test Properties, Testing Frequency and Recommended Warranty for High Density Polyethylene (HDPE) Smooth and Textured Geomembranes and GRI GM17 Test Properties, Testing Frequency and Recommended Warranty for Linear Low Density Polyethylene (LLDPE) Smooth and Textured Geomembranes. The testing program covers raw materials (as shown in Appendix A) and the finished goods and is adhered to by all GSE's quality assurance laboratories. The laboratory equipment used by GSE represents the most modern equipment available and meets or exceeds the requirements of all the test standards used.

B. Other Testing Capabilities

In addition to routine testing, GSE laboratories are equipped to perform a wide variety of other tests as required for unusual requests or product development. Further, although the GSE's laboratories are fully equipped and able to perform the most routinely specified tests in the industry, there are some tests that are more economically performed by a dedicated testing facility. GSE believes requirements for such testing should be carefully considered and defined in terms of specific design requirements if they are found to be necessary.

9.0 MATERIAL QUALITY ASSURANCE

GSE has established strict specifications for all raw materials and finished products. Test results must fall within the acceptable limits of GSE and customer's specifications.

A. Raw Material

GSE uses two types of raw materials in the manufacture of geomembrane products: natural resin and masterbatch . Natural resin is the base material that is used to make a geomembrane. It contains stabilizers to prevent degradation from occurring during and after extrusion. Masterbatch is the term referring to the concentrated carbon black material blended with the natural resin to produce the finished product. The natural resin and masterbatch are blended at the appropriate ratio at the manufacturing stage. The masterbatch can contain other additives depending upon the geomembrane product to be produced. GSE verifies the properties of each lot of raw material prior to their utilization.

When natural resin is received, samples are taken and subjected to the tests outlined in Appendix A. All test

data are entered into the computer database and checked for accuracy, consistency and compliance with GSE's specifications. The material is not accepted unless all standard test requirements are met and the GSE's test values meet the requirements set forth in the raw material specifications.
Copies of the supplier's certificate of analysis (COA) for each lot of resin utilized in the production of the materials supplied to a specific project are supplied as standard documentation. In addition, the GSE's test results for each lot of resin are provided in a separate report upon request. Virgin resin is normally received in rail car lots. If resin is received by other transport and/or in other quantities, an equivalent suitable sampling procedure is provided (i.e. not less than one sample per shipment or one sample for each 50,000 lb, 23,000 kg).

B. Geomembrane Products

GSE has implemented a strict and thorough quality assurance program for all geomembrane products. The geomembrane product line can be broken into two primary categories: smooth and textured products. The tables contain GSE's minimum properties and test frequencies for all GSE geomembrane products, such as GSE Green (green surface geomembrane), GSE White (light-reflective geomembrane) and GSE Leak Location (field spark-testable geomembrane).

1. On-Line Manufacturing Quality Assurance

   The quality assurance program for finished product begins during the manufacturing process. Each manufacturing line is equipped with state-of-the-art monitoring devices that provide feedback on the physical quality of the materials being produced. Each geomembrane production line is equipped with both a thickness gauge and spark-testing device.

   a. Thickness Measurement

      As geomembrane is being produced, thickness readings are taken continuously over the length and width of the roll. These data are used to establish the minimum, maximum and average thickness values for each roll and are verified by thickness testing upon sampling of the finished goods.

   b. Spark Testing

      An electrical spark detector is in place on each manufacturing sheet line. This apparatus provides immediate notification of holes in the finished product. If a hole is detected, an alarm is triggered and the hole is identified. Rolls containing holes are rejected from standard product inventory.

2. Smooth Geomembrane Materials

   Smooth geomembrane products available include high density and linear low density polyethylene materials with 2-3% carbon black. Specialty materials include GSE White, GSE Leak Location, and GSE Green geomembranes.

   a. Sampling

      Geomembrane rolls are sampled for QA testing according to the frequencies specified on the data sheet. An approximate one-foot by roll width sample is cut for quality assurance testing. Test specimens are taken from five positions across the width of the roll. A retain or archive sample approximately 12 in x 12 in (30 cm x 30 cm) is taken one of the five positions on an alternating basis from the laboratory sample. The retain is labeled and kept for future reference.

   b. Evaluation of Results

      All data are entered into a computer database for calculation and comparison to GSE and/or customer's specifications. If materials do not meet GSE's minimum requirements and/or the customer's specifications, the manufacturing personnel will appropriately make the adjustments. Only products meeting GSE's minimums and/or customer's specifications will be approved for shipment.

c. Reporting

Every roll of material has a quality assurance roll certificate or Roll Test Data Report (RTDR). This report identifies the standards on which the GSE's approval is based along with the actual test results demonstrated by the material.

3. Co-extruded Textured Geomembranes

Textured geomembrane is produced utilizing a round die with co-extrusion technology. The texture is produced in a process in which one or both of the outer layers of a three-layer extrusion are blended with nitrogen gas. Nitrogen bubbles form in the molten resin and escape upon exiting the die, creating a rough, textured surface. GSE standard, GSE White, GSE Green, and GSE Leak Location geomembranes are available with co-extruded texturing.

a. Sampling

Geomembrane rolls are sampled for QA testing according to the frequencies specified on the data sheet. An approximate one-foot by roll width sample is cut for quality assurance testing. Specimens for testing are taken from five positions across the width of the roll. Specimens for testing the machine and transverse direction tensile are cut from each of the five positions. A retain or archive sample approximately 12 in x 12 in (30 cm x 30 cm) is taken from the corresponding transverse direction position from the laboratory sample. The retain is labeled and kept for future reference. Evaluation of results and reporting practices are the same as for smooth geomembranes.

C. Third Party Conformance Sampling

Some specifications require independent quality assurance and/or conformance testing. GSE can provide assistance with the sampling of products by arranging for the conformance samples to be taken during production. By taking samples during production rather than on-site or after production, the customer can be assured that the samples are clean and available for conformance testing in a timely manner.

GSE encourages customers to audit GSE manufacturing and other manufacturing quality assurance facilities to collect samples and conduct independent conformance testing prior to shipment of materials.

D. Product Shipping

It is GSE's policy to ship only products that have been tested and approved. All shipments are packaged according to industry's standard practices and/or customer's specifications. Only approved handling methods are used to move rolls into and out of shipping containers, please see the GSE Installation Quality Assurance Manual for more details.

Appendix A: Minimum Testing Frequencies and Properties for GSE Raw Materials

TABLE 1. MINIMUM TESTING FREQUENCIES

Property	Test Method[1]	Natural Resin
Density	ASTM D 1505	once per rail car comparment
Melt Flow Index	ASTM D 1238 (190/2.16)	once per rail car comparment
OIT	ASTM D 3895 (1 ATM at 200° C)	once per resin lot[2]
Carbon Black Content	ASTM D 1603, modified	N/A
Carbon Black Dispersion	ASTM D 5996	N/A

Notes:
[1]GSE utilizes test equipment and procedures that enable effective and economical confirmation that the product will conform to specifications based on the noted procedures. Some test procedures have been modified for application to geosynthetics. All procedures and values are subject to change without prior notification.
[2]OIT for LLDPE/VFPE resin is performed on a representative finished product for each lot of resin rather than on the natural (without carbon black) resin.

TABLE 2. MINIMUM PROPERTIES FOR GSE RAW MATERIALS

Property	Test Method[1]	HDPE	LLDPE/VFPE
Density (g/cm^3)	ASTM D 1505	0.932	0.915
Melt Flow Index (g/10 min)	ASTM D 12338 (190/2.16)	≤ 1.0	≤1.0
OIT (minutes)	ASTM D 3895 (1 ATM at 200° C)	100	100[2]

Notes:
[1]GSE utilizes test equipment and procedures that enable effective and economical confirmation that the product will conform to specifications based on the noted procedures. Some test procedures have been modified for application to geosynthetics. All procedures and values are subject to change without prior notification.
[2]OIT for LLDPE/VFPE resin is performed on a representative finished product for each lot of resin rather than on the natural (without carbon black) resin.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.

[DURABILITY RUNS DEEP]

GSE
ENVIRONMENTAL™

REV22JAN2013

19103 Gundle Road
Houston, Texas 77073
[C] 281.443.8564
[F] 281.875.6010
[TF] 800.435.2008

GSE ENVIRONMENTAL™

GSE Geosynthetic Storage Recommendations

Geomembrane Storage

A. Rolls of material shall be unloaded with equipment that will not damage the geomembrane.
B. Fabric-straps, spreader bars or other approved equipment shall be used for handling rolls of geomembrane.
C. Materials should be stored in a flat, dry and well drained area.
D. The surface shall be free of sharp rocks or other objects that could damage the materials.
E. Geomembrane rolls may be stacked up to 3 tiers high.

Geotextile/Geocomposite Storage

A. Rolls of material shall be unloaded with equipment that will not damage the geocomposite.
B. Fabric-straps, spreader bars, stinger bars, or other approved equipment shall be used for handling geotextile/geocomposite rolls.
C. Materials should be stored in a flat, dry and well drained area.
D. The surface shall be free of sharp rocks or other objects that could damage the materials.
E. For extended storage (> 6 months), geotextile/geocomposite should be covered with protective waterproof tarps.
F. Geotextile/geocomposite rolls may be stacked up to 3 tiers high.

GCL Storage

A. Rolls of material shall be unloaded with equipment that will not damage the GCL.
B. Fabric-straps, spreader bars, stinger bars, or other approved equipment shall be used for handling GCL rolls.
C. Materials should be stored in a flat, dry and well drained area.
D. The surface shall be free of sharp rocks or other objects that could damage the materials.
E. GCL shall be covered with protective waterproof tarps.
F. For extended storage (> 6 months) GCL should be stored inside a completely enclosed structure.

- Building temperature should not exceed 95 degrees F. The building must be well ventilated to avoid exposure to constant excessive humidity and condensation.

G. The rolls should remain in their original, unopened, plastic wrapping to prevent undue hydration prior to installation.
H. GCL material may be stacked up to 3 tiers high.

PRODUCT DATA SHEET

GSE HD Smooth Geomembrane

GSE HD is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties.

[*]

AT THE CORE:
An HDPE geomembrane used in applications that require excellent chemical resistance and endurance properties.

Product Specifications

These product specifications meet GRI GM 13

Tested Property	Test Method	Frequency	Minimum Average Value				
			30 mil	40 mil	60 mil	80 mil	100 mil
Thickness, mil Lowest individual reading	ASTM D 5199	every roll	30 27	40 36	60 54	80 72	100 90
Density, g/cm³	ASTM D 1505	200,000 lb	0.940	0.940	0.940	0.940	0.94
Tensile Properties (each direction) Strength at Break, lb/in-width Strength at Yield, lb/in-width Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbbell, 2 ipm G.L. 2.0 in G.L. 1.3 in	20,000 lb	 114 63 700 12	 152 84 700 12	 228 126 700 12	 304 168 700 12	 380 210 700 12
Tear Resistance, lb	ASTM D 1004	45,000 lb	21	28	42	56	70
Puncture Resistance, lb	ASTM D 4833	45,000 lb	54	72	108	144	180
Carbon Black Content, % (Range)	ASTM D 1603*/4218	20,000 lb	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb	Note(1)	Note(1)	Note(1)	Note(1)	Note(1)
Notched Constant Tensile Load, hr	ASTM D 5397, Appendix	200,000 lb	500	500	500	500	500
Oxidative Induction Time, mins	ASTM D 3895, 200°C; O_2, 1 atm	200,000 lb	>100	>100	>100	>100	>100
TYPICAL ROLL DIMENSIONS							
Roll Length(2), ft			1,120	870	560	430	340
Roll Width(2), ft			22.5	22.5	22.5	22.5	22.5
Roll Area, ft²			25,200	19,575	12,600	9,675	7,650

NOTES:
- (1) Dispersion only applies to mear spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
- (2) Roll lengths and widths have a tolerance of ±1%.
- GSE HD is available in rolls weighing approximately 3,900 lb.
- All GSE geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77°C when tested according to ASTM D 746
- *Modified.

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GSE ENVIRONMENTAL™

[DURABILITY RUNS DEEP] For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.

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GSE ENVIRONMENTAL™

Landfill Projects (with HDT Products)

Project	Location	SF	Ship Date
Garrett County Landfill	Maryland	514,800	12/11
Four Corners Power Plant	New Mexico	1,544,400	11/11
Keystone Landfill 2011 Phase II Cell	Pennsylvania	479,700	11/11
Shawville Station	Pennsylvania	549,630	8/11
Nu-West Industries Inc/Agrium	Idaho	3,252,600	8/11
White Pines Landfill Cap	Pennsylvania	441,000	7/11
Veolia ES Blackfoot Landfill	Indiana	432,900	5/11
Waimanalo Gulch Landfill	Hawaii	1,313,550	5/11
Hatfield Ferry Point Station	Pennsylvania	1,755,000	5/11
DSWA Southern Solid Waste Cell 5	Delaware	1,825,200	5/11
International Paper Landfill Cell 2	North Carolina	1,289,250	12/10
Cherry Island	Delaware	2,634,525	12/10
Plant Wansley Cells 1,2,3	Georgia	6,026,400	12/10
Georgia Power Plant Scherer	Texas	2,408,400	11/10
Laraway RDF South Gypsum Stack Cap	Illinois	1,310,400	11/10
Navajo Generating Station	Arizona	1,519,155	11/10
Maryville/Blount City Landfill	Tennessee	596,700	11/10
Inland Bays WTP	Delaware	623,700	11/10
Asheville Airport Area #4	North Carolina	1,682,775	10/10
Hoosier Energy Fly Ash Pond	Indiana	631,800	10/10
PDC Clinton Landfill	Illinois	830,700	10/10
Brookhaven Landfill	New York	853,515	10/10
Douglas County RDF	Nebraska	549,900	9/10
Toland Road Landfill	California	600,525	9/10
Aucilla Area Solid Waste	Florida	854,100	9/10
Eagle Mine Site	Michigan	1,076,400	9/10

Project	Location	SF	Ship Date
SR 85 Landfill Cell 1 Phase 4	Arizona	818,100	8/10
Commonwealth Landfill	Pennsylvania	567,000	7/10
Hay Road Landfill Phase II	California	830,700	7/10
Hillside Landfill	California	1,029,600	7/10
Mid America Council Bluffs	Iowa	1,158,120	7/10
ERDF DOE Cell 19 Hanford	Washington	3,377,700	6/10
American Landfill Cell	Ohio	585,000	6/10
Hopewell Cell H-2a	Pennsylvania	737,100	6/10
New Castle 2010	Pennsylvania	844,648	6/10
Outagamie City NE Area 6 Landfill	Wisconsin	1,064,700	6/10
XCEL Energy Sherburne Co. Generating Plant	Minnesota	1,208,700	6/10
Pasco County Florida/Pasco City Class III Landfill	Florida	1,964,250	5/10
Prairie Hill RDF	Illinois	538,200	5/10
Robeson County / MSW Landfill PH4 Expansion	North Carolina	549,900	5/10
Mesquite Creek Landfill Cell	Texas	620,100	5/10
Park County Landfill	Wyoming	666,855	4/10
Western Sarpy Clear Creek Levee	Nebraska	708,750	4/10
West Daviess County Landfill	Kentucky	503,100	3/10
Hernando County CPU	Texas	1,778,400	2/10
Wharf Resources Pad 3	South Dakota	1,039,500	2/10

TEXAS PARKS AND WILDLIFE

SUBMITTAL COVER SHEET

Texas Parks and Wildlife Department
Infrastructure Division
4200 Smith School Road
Austin, Texas 78744

SUBMITTAL NO. 7
Package No. _____
Revision No. _____

SUBMITTAL NAME: POND LINER INSTALLATION — NO. OF COPIES: 1

PROJECT DESCRIPTION: GARNER STATE PARK WASTEWATER PLANT REPLACEMENT — DATE: JAN. 18, 2016

PROJECT NUMBER: 134236 — CONTRACT NUMBER: 474344 — SPEC. SECTION: 02775

PROJECT SITE: GARNER STATE PARK

CONTRACTOR: Todd Neff
Texas Water & Soil Co. Inc.
2908 West FM 2105
San Angelo, Texas 76901

OWNER'S REPRESENTATIVE: Joe Etzler
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Todd Neff — By — 1-18-16 — Date

Architect/Engineer
- ☒ No exceptions taken
- ☐ Furnish with revisions as noted
- ☐ Revise and resubmit
- ☐ Rejected – See Remarks

Joseph E... PE — By — Jan 20, 2016 — Date

Parks and Wildlife
- ☑ Reviewed
- ☐ Exceptions noted
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[signature] — By — 1-27-16 — Date

Submittals reviewed and distributed as follows:

___ Architect/Engineer
___ Contractor
___ Project File
___ Project Inspector
___ Construction Manager
___ Project Manager

Distributed By — Date

COMMENTS:

By — Date

TEXAS PARKS AND WILDLIFE

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1-18-16 — Date

Architect/Engineer

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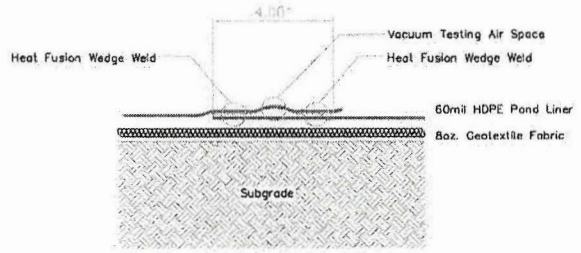
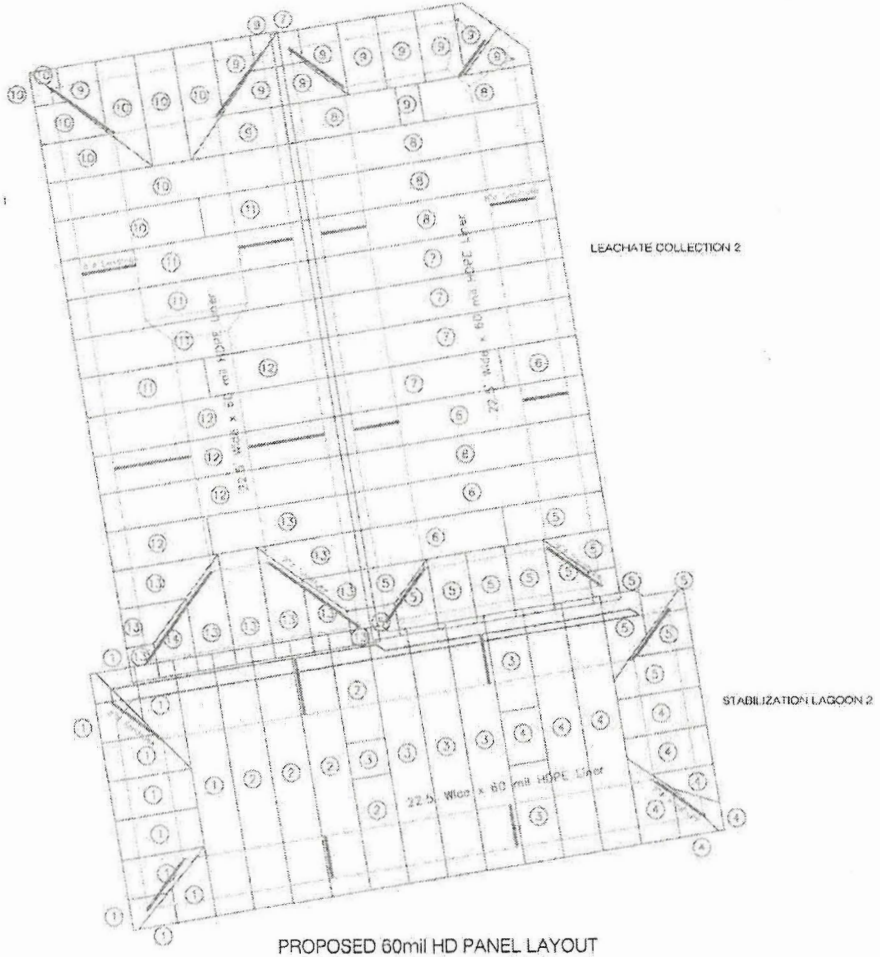
COMMENTS: _____

By — Date



Wedge Weld Detail
NOT TO SCALE



PROPOSED 60mil HD PANEL LAYOUT
SCALE : 1" = 30'

FALCON ENVIRONMENTAL LINING SYSTEMS, INC.
(4329) 3066 5611 FAX - 3660 2990

PROPOSED HDPE PANEL LAYOUT
GARNER STATE PARK WWTP
UVALDE, TX

Drawn By: JASMIN	Material:	Sheet No.
Date: 10/29/15	60 mil HD GEOTEXTILE	1/1
Checked By:		
Scale: 1" = 30'		

Falcon Environmental Lining Systems, Inc.

Field Installation
Quality Assurance Plan

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FALCON'S MISSION STATEMENT

To be the leader in providing geosynthetic lining solutions, products and services to satisfy our customers' needs for protecting the environment

1.0 INTRODUCTION

1.1 Overview of Construction Quality Assurance Plan

The Falcon's Installation Quality Assurance Plan was developed based on the company's long-tem policy and tradition of quality being the single most significant determining factor. Some projects have specifications which may require project specific modifications to this manual. Such documents, when required, will become an appendix to the construction contract or this manual.

Commonly used geosynthetic components of a lining system are discussed in this manual This includes polyethylene geomembranes, geotextiles, geonets and geocomposites. This manual can be a useful guide in delineating the quality assurance procedures and minimum requirements for the installation of all the above geosynthetic products.

This manual does not address design guidelines, installation specifications, or selection of geomembranes, bentonite blankets, and other geosynthetics.

1.2 Project Duties and Qualifications of the Geosynthetic Installer Personnel

1.2.1 Project Manager

The Falcon Project Manager is charged, at a minimum, with the following responsibilities.

- Primary customer contact for all aspects of the project
- Coordinate projects with clients with regard to submittals, documentation, material delivery, crew mobilization, job progress, invoicing and project close- out
- Develop and implement staffing, equipment and operational plans prior to job start
- Continuously monitor job progress and make necessary adjustments to ensure successful completion; maintain revised schedules and schedule coordination with other project activities to reflect current status subsequent to any significant change
- Attend pre-construction meetings
- Available for site visits and meetings as job progresses to ensure client satisfaction

1.2.2 **Site Supervisor**

The Site Supervisor shall have installed a minimum of 5,000,000 square feet of geomembrane. The Falcon Site Supervisor is charged, at a minimum, with the following responsibilities.

- The deployment, seaming, testing, repair and detailing of the geosynthetic components installation for which Falcon is contracted to install
- The Welding Technicians and other field staff
- Repair and maintenance of all equipment and vehicles used on jobsite
- Communication with the customer on all matters of scheduling and the installer's role in project
- Develop time and scope estimates for any applicable change orders with assistance from project manager
- Act as the primary on-site contact for the customer and Independent construction quality assurance (CQA) personnel
- Supervise the completion of all lining installation work including clean up of the jobsite

1.2.3 **Quality Assurance Technician**

The Quality Assurance (QA) Technician is charged, at a minimum, with the following responsibilities.

- Monitor all trial welds
- Performance of all non-destructive and destructive testing
- Maintain records of testing performed
- Measurement of deployed materials
- Inspections (walkdown) of completed areas of installation
- Other tasks required

1.2.4 **Welding Technician**

The Welding Technician is charged, at a minimum, with the following responsibilities.

- Perform deployment, seaming, and repairs as required for project
- Equipment maintenance as required
- Perform trial welds
- Perform other functions for the scope of work as directed by the Site Supervisor
- Assist QA Technician as required by the Site Manager

The Master Seamer shall be a welding technician with a minimum of 1,000,000 square feet of geomembrane seaming work and can also be the Site Supervisor or QA Technician

2.0 GEOMEMBRANE INSTALLATION

2.1 **Earthwork**

2 .1. 1 Surface Preparation

The Earthwork Contractor shall be responsible for preparing the subgrade according to the project Specifications

a) The surface to be lined shall be prepared so as to be free of irregularities, protrusions, vegetation, excessive water, loose soil or abrupt changes in grade.

b) The supporting surface does not contain stones or other matter of such composition, shape or size which may be damaging to the Geomembrane.

c) Subgrade shall be the responsibility the owner or earth contractor.

2.1.2 **Anchor Trench**

The Earthwork Contractor shall construct the anchor trenches (unless otherwise specified in the contract) to the lines, widths and depths as shown on the drawings and specifications. This task should be performed prior to the geomembrane deployment.

The edges where the geosynthetics enter the trench should be free of irregularities, protrusions, etc. to avoid potential damage to the material. Backfilling of the anchor trench shall be the responsibility of the Earthwork Contractor in accordance with specifications. Backfilling should occur when the geosynthetic material is at its most contracted state to avoid potential bridging problems. Care must be taken to avoid damaging the geosynthetics during backfilling

2.2 **Geomembrane Deployment**

The site supervisor, in conjunction with the customer shall agree upon the following issues. If any adverse situation or disagreement exists, the site supervisor shall cease deployment until issues are resolved.

2.2.1 Installation

The Site Supervisor shall proceed with deployment provided that:

- Deployment equipment does not damage the subgrade.
- Personnel who are in contact with the liner do not smoke, wear damaging shoes or engage in other activities which risk damage to the liner.

- Use of a low ground pressure, rubber-tired all terrain vehicle (i.e. ATV) is allowed on the geosynthetic surface, provided proper care is taken to avoid damage and excessive traffic.

Field panel placement installation sequence should take into account site drainage, wind direction, subgrade surface, access to the site, and production schedule of the project. Geomembrane panel deployment shall not proceed when adverse weather conditions exist which may jeopardize the integrity of the liner installation. Field panels should be seamed as soon as possible after deployment and all deployed material shall be marked with appropriate identification.

2.2.2 Visual Inspection

The Site Supervisor and/or the QA Technician and the designated Independent Inspector shall visually inspect each panel, as soon as possible after deployment, for damage or areas needing repair. Areas shall be marked for repair.

2.3 Field Seaming

Field seaming involves the bonding of adjacent panels using thermal methods.

2.3.1 Seam Layout

In general, seams shall be oriented parallel to the direction of maximum slope, i.e. oriented along, not across, the slope. In corners and odd-shaped geometric locations, the number of seams should be minimized No horizontal seams should occur on a panel less than five lineal feet from the toe of the slope. On slopes of less than 10% (6L:1H), this rule shall not apply. A cross slope seam may be utilized provided the panel ends are cut at an angle of approximately 45°
A seam is considered a separate entity if it is the principal attachment that joins two or more panels. Repairs are not considered seams in this context.

A numbering system using adjacent panel numbers shall identify each seam.

2.3.2 Seaming Equipment and Products

Approved processes for field seaming and repairing are extrusion welding and fusion welding. All welding equipment shall have accurate temperature monitoring devices to insure proper measurement of the welder temperatures.

a) Fusion Process

This process shall be used for seaming panels together and is not generally used for patching or detail work. The apparatus shall be of a hot wedge type and is commonly equipped with a "split wedge" to allow air pressure seam testing.

Fusion welding equipment shall be self-propelled devices and shall be equipped with functioning wedge temperature and seaming speed controllers to assure proper control by the Welding Technician.

b) Extrusion Process

This process shall be used primarily for repairs, patching, and special detail fabrication. This method is also useful to connect new panels to previously installed liner that does not have an exposed edge capable of being fusion welded.

The extrusion welding apparatus (handwelder) shall be equipped with temperature monitoring devices.

2.3.3 Seam Preparation

The Welding Technician shall verify that prior to seaming, the seam area is free of moisture, dust, dirt, sand, or debris of any nature; the seam is properly overlapped for welding; the seam is properly heat tacked and abraded when extrusion welding, and seams are performed to minimize "fishmouths."

2.3.4 Trial Seams (Trial Welds)

Prior to production seaming, trial seams shall be made and accepted using specified criteria. Trial seams shall be made on appropriate sized pieces of identical or equivalent geomembrane material to verify that seaming conditions and procedures are adequate. Each trial seam sample shall be assigned a number and the test results recorded in the appropriate log.

- Trial seams shall be performed for each welder to be used and by each operator of extrusion welders, and by the primary operator of each fusion welder.
- A passing trial seam shall be made prior to the beginning of each seaming period. Typically this is at the start of the day and after lunch break.
- Fusion welded trial seam samples shall be approximately six feet long by one foot wide with the seam centered lengthwise. For extrusion welding, the trial seam sample size shall be approximately three feet long, by one foot wide with the seam centered lengthwise.
- Four specimens, each one inch wide and six inches long shall be cut from the trial seam using a coupon cutter. Two of the specimens shall be tested in shear and two specimens tested for peel on a field tensiometer. When testing a fusion welded seam, both inside and outside seams shall be tested. All shear and peel test specimens shall meet or exceed the project requirements.

2.3.5 Panel Seams (Production Seaming)

Upon acceptance of the trial seams, work may begin on deployed panels. All seams shall be non-destructively and destructively tested. Each completed seam shall be labeled with pertinent information.

2.3.6 Non-Destructive Seam Testing

Falcon shall non-destructive test field seams for their full length using an air pressure test or a vacuum test. The purpose of non-destructive tests is to demonstrate the leak resistance of the seam.

On seams that cannot be non-destructively tested by vacuum or air-pressure methods due to physical constraints, i.e. a boot detail, the seam shall be tested using other approved methods.

The Site Supervisor shall schedule all non-destructive testing operations in order to ensure prompt demonstration of weld quality and the orderly progress of the project.

The QA Technician shall instruct the testing personnel regarding marking of repairs needed, leaks and sign-off marks on seam and repairs

a) Vacuum Testing

Vacuum testing is routinely performed on extrusion welds and can be performed on fusion welds. The equipment shall consist of a vacuum box assembly with a vacuum gauge, a pumping device, and a soap solution.

The following procedure shall be followed:

- Wet a section of the seam with the soap solution. The seam section must be longer than the vacuum box.
- Place the vacuum box over the wetted area and apply body weight to form a seal between the gasket and the liner.
- Evacuate air to create a negative pressure of approximately 5 psig.
- Observe the seam through the viewing window for presence of soap bubbles emitting from the seam.
- If no bubbles are observed, reposition the box on the next wetted area for testing with a slight overlap.
- If bubbles are detected, which indicates a leak in the seam, mark the area of the leak for repair and retest.

b) Air Pressure Testing

Air pressure testing is performed on seams made by a double-seam fusion welding apparatus.

The equipment shall be comprised of the following:

- An air pump, or air tank capable of producing a minimum air pressure of 25 psig in the seam channel.
- A sharp hollow needle to insert air into the air channel of the seam.
- A hot air gun or other heating device to seal the ends of the air channel.

The following procedures shall be followed:

- Seal both ends of the air channel of the seam to be tested.
- Insert the needle into the air chamber at either end of the seam to be tested.
- Pressurize the air channel to a minimum of 25 psig. Allow the pressure to stabilize, and if necessary, re-pressurize to 25 psig and note the pressure.
- With a minimum pressure of 25 psig stabilized in the air channel, the time of day shall be noted.
- After approximately 5 minutes, the air pressure should be read again.
- If the difference between the two readings is more than 4 psig, the seam needs to be retested.
- Upon completion of the test and recording all information required, open the opposite end of the seam from the needle. Escaping air will confirm that the entire length of the seam was pressurized and therefore tested. If air does not escape, the channel is blocked. The blockage must be located and the test redone from that point.
- Upon completion of the air pressure test the seam shall be marked and points requiring repair identified.

c) Procedures for Air Pressure Test Failure

Should the seam fail the air pressure test, the following procedure shall be followed:

- Reposition the apparatus and retest the same section.
- While the seam air-channel is under pressure, traverse the length of the seam and listen for the leak.
- While the seam air-channel is under pressure, apply a soapy solution to the seam edge (do not trim excess material from edge of seam) and observe for bubbles formed by escaping air.
- Re-test the seam in progressively smaller increments, until the area of leakage is identified.
- Repair the identified leak area by extrusion welding the excess material at the edge of the seam and then vacuum test.
- In areas where the air channel is closed and integrity of the weld is not suspect, vacuum testing is acceptable.

2.3.8 Defects and Repairs

All seams and non-sewn areas of the polyethylene lining system shall be examined for identification of defects. Identification of the defect or repair may be made by marking on the sheet/seam with an appropriate marking device.

a) Repair Procedures

Any portion of the polyethylene lining system exhibiting a defect, which has been marked for repair, shall be repaired with any one or combination of the following methods:

- Patching: used to repair holes, tears.
- Grind and reweld: used to repair small sections of extruded seams.
- Spot welding: used to repair small minor, localized flaws.
- Flap welding: used to extrusion weld the flap of a fusion weld in lieu of a full cap.
- Capping: used to repair failed seams.
- Topping: application of extrudate bead directly to existing Seams.

The suspected defect shall be demonstratable as out of specification and detrimental to the performance of the liner.

The following conditions shall apply to all the above methods:

- Surfaces of the polyethylene, which are to be repaired, shall be lightly abraded to assure cleanliness.
- All surfaces intended to receive extrudate must be clean and dry at the time of the repair.
- All patches and caps shall extend at least four inches beyond the edge of the defect, and all patches shall have rounded corners.

b) Verification of Repairs

Repairs shall be non-destructively tested according to the criteria established in Section 2.3.6 e.

Repairs which pass the non-destructive test will be taken as an indication of an adequate repair. Failed tests indicate that the repair must be re-done and re-tested until a passing test result is obtained.

3.0 ANCILLARY GEOSYNTHETICS INSTALLATION (Geonets, Geocomposites, GCL's, Geotextiles, and Geogrids)

3.1 Handling

Falcon shall handle all geotextile, geonets, geogrids and geocomposites, in such a manner as to ensure they are not damaged.

- On slopes, the geosynthetics shall be securely anchored in the anchor trench and then rolled down the slope in such a manner as to keep the material in tension.
- Sandbags shall be used to secure the edges of the material when the potential for wind damage is significant.
- Cutting of the material shall be done in such a manner as to prevent damage to any underlying or adjacent geomembrane.
- Care should be taken when deploying geosynthetic materials that stones, debris or other material is not trapped by the geonet, geocomposites, geotextile, geogrids, or GCL and which might damage the geosynthhetic or geomembrane.

3.2 Deployment

3.2.1 Geonet (GSE HyperNet®)

Geonets shall be overlapped approximately four inches and fastened together with plastic cable ties,

3.2.2 Geotextile/Geonet Geocomposite (GSE FabriNet®)

The geonet component shall be butted or overlapped and fastened together with plastic cable ties. The unbonded edges of the geotextile component shall remain overlapped. Bonded edges of the geocomposite shall be overlapped approximately four inches and fastened with plastic cable ties.

3.2.3 Geotextile

Geotextiles may be installed by overlapping, by heat bonding (continual basis)

3.2.4 Geogrid

Geogrids should be installed per manufacturer's recommendations and/or project specifications.

3.3 Geosynthetic Repairs

Repairs shall be made on geosynthetic products as necessary.

3.3.1 Geonet

Any tears larger than twelve inches shall be repaired. Patches shall extend at least six inches from all sides of the tear and shall be fastened with plastic cable ties.

3.3.2 Geotextile/Geonet Geocomposite

Holes or tears in the geocomposite material shall be repaired with a patch of identical or similar material extending at least 6" from all sides of the hole or tear and fastened with plastic cable ties.

3.3.3 Geotextile

Holes in geotextile material shall be repaired using a patch of identical or similar material extending approximately six inches on all sides from the hole and heat bonded to the parent material

3.3.4 Geogrid

Repair of geogrid shall only be made according to the geogrid manufacturer's instructions

Section 8 – Pond Liner

Liner Specifications

Manufacturer.....GSE Environmental
Type..... HD Smooth
Thickness..... 60 mil

Description

Purpose of the geomembrane is to act as a barrier between the wastewater ponds and the water table, thereby preventing contamination of the groundwater by the wastewater. GSE HD is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. Carbon black, antioxidants, and UV stabilizers are added to the polymer to ensure long term performance in both covered and exposed applications. HDPE is the most universal polymer used for geomembranes because of of its proven chemical resistance, durability and permeability.

Geomembrane Seaming

Seams of the membrane are attached by a process known as fusion welding. Fusion welding involves the overlap and heating of the two seams to a melting point and bonding them, so that the two pieces become one. This process is NOT done in adverse weather conditions.

Maintenance

The geomembrane requires no maintenance following installation. **CARE SHOULD BE EXERCISED BY OPERATIONS AND MAINTENANCE PERSONEL NOT TO PUNCURE THE MEMBRANE!!**

Test Results

The following pages contain the test results from the geomembrane welding.

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Project Name: PONDS							**Job Number**		
Field Supervisor: A.LARA							**Page 1 of**		
Location: GARNER STATE PARK- FIRST POND							**Sheet Thickness and Type-60-MIL- S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
31-32	R.L.	10/26/16	30	30	10.21	10.26	0	GOOD	10-26-16
32-33	R.L.	10/26/16	30	30	10.24	10.29	0	GOOD	10-26-16
31-33	R.L.	10/26/16	30	30	10.32	10.37	0	GOOD	10-26-16
30-31	R.L.	10/26/16	30	30	10.37	10.42	0	GOOD	10-26-16
30-33	R.L.	10/26/16	30	30	10.39	10.44	0	GOOD	10-26-16
33-34	R.L.	10/26/16	30	30	10.42	10.47	0	GOOD	10-26-16
30-34	R.L.	10/26/16	30	30	10.44	10.49	0	GOOD	10-26-16
29-30	R.L.	10/26/16	30	30	10.51	10.56	0	GOOD	10-26-16
29-34	R.L.	10/26/16	30	30	10.53	10.58	0	GOOD	10-26-16
23-29	R.L.	10/26/16	30	30	10.55	11.00	0	GOOD	10-26-16
28-29	R.L.	10/26/16	30	30	10.57	11.02	0	GOOD	10-26-16
23-28	R.L.	10/26/16	30	30	10.59	11.04	0	GOOD	10-26-16
27-28	R.L.	10/26/16	30	30	11.01	11.06	0	GOOD	10-26-16
23-27	R.L.	10/26/16	30	30	11.03	11.08	0	GOOD	10-26-16
23-24	R.L.	10/26/16	30	30	11.05	11.10	0	GOOD	10-26-16
24-27	R.L.	10/26/16	30	30	11.07	11.12	0	GOOD	10-26-16
26-27	R.L.	10/26/16	30	30	11.09	11.14	0	GOOD	10-26-16
25-26	R.L.	10/26/16	30	30	11.13	11.18	0	GOOD	10-26-16
24-25	R.L.	10/26/16	30	30	11.15	11.20	0	GOOD	10-26-16

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Project Name: PONDS							**Job Number**		
Field Supervisor: A.LARA							**Page 2 of**		
Location: GARNER STATE PARK-FIRST POND							**Sheet Thickness and Type 60-MIL -S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
24-26	R.L.	10/26/16	30	30	11.11	11.16	O	GOOD	10-26-16
22-23	R.L.	10/26/16	30	30	11.17	11.22	O	GOOD	10-26-16
23-34	R.L.	10/26/16	30	30	11.19	11.24	O	GOOD	10-26-16
22-34	R.L.	10/26/16	30	30	11.21	11.26	O	GOOD	10-26-16
21-22	R.L.	10/26/16	30	30	11.23	11.28	O	GOOD	10-26-16
20-21	R.L.	10/26/16	30	30	11.25	11.30	O	GOOD	10-26-16
19-20	R.L.	10/26/16	30	30	11.27	11.32	1	GOOD	10-26-16
19-20	R.L.	10/26/16	30	30	11.29	11.34	1	GOOD	10-26-16
18-19	R.L.	10/26/16	30	30	11.31	11.36	O	GOOD	10-26-16
17-18	R.L.	10/26/16	30	30	11.33	11.38	O	GOOD	10-26-16
16-17	R.L.	10/26/16	30	30	11.35	11.40	O	GOOD	10-26-16
15-16	R.L.	10/26/16	30	30	11.37	11.42	O	GOOD	10-26-16
14-15	R.L.	10/26/16	30	30	11.39	11.44	O	GOOD	10-26-16
10-14	R.L.	10/26/16	30	30	11.41	11.46	1	GOOD	10-26-16
10-14	R.L.	10/26/16	30	30	11.45	11.50	1	GOOD	10-26-16
9-10	R.L.	10/26/16	30	30	11.47	11.52	O	GOOD	10-26-16
4-9	R.L.	10/26/16	30	30	11.49	11.54	O	GOOD	10-26-16
4-5	R.L.	10/26/16	30	30	1.10	1.15	O	GOOD	10-26-16
5-9	R.L.	10/26/16	30	30	1.07	1.12	O	GOOD	10-26-16

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Field Supervisor: A.LARA							**Page 3 of**		
Location: GARNER STATE PARK-FIRST POND							**Sheet Thickness and Type 60-MIL S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
8-9	R.L.	10/26/16	30	30	1.12	1.17	0	GOOD	10-26-16
5-8	R.L.	10/26/16	30	30	1.14	1.19	0	GOOD	10-26-16
5-6	R.L.	10/26/16	30	30	1.16	1.21	0	GOOD	10-26-16
6-8	R.L.	10/26/16	30	30	1.18	1.23	0	GOOD	10-26-16
6-7	R.L.	10/26/16	30	30	1.22	1.27	0	GOOD	10-26-16
7-8	R.L.	10/26/16	30	30	1.20	1.25	0	GOOD	10-26-16
4-10	R.L.	10/26/16	30	30	1.24	1.29	0	GOOD	10-26-16
3-4	R.L.	10/26/16	30	30	1.26	1.31	0	GOOD	10-26-16
3-10	R.L.	10/26/16	30	30	1.28	1.33	0	GOOD	10-26-16
3-10	R.L.	10/26/16	30	30	1.30	1.35	0	GOOD	10-26-16
10-11	R.L.	10/26/16	30	30	1.32	1.37	0	GOOD	10-26-16
3-11	R.L.	10/26/16	30	30	1.34	1.39	0	GOOD	10-26-16
2-3	R.L.	10/26/16	30	30	1.36	1.41	0	GOOD	10-26-16
2-11	R.L.	10/26/16	30	30	1.38	1.43	0	GOOD	10-26-16
11-12	R.L.	10/26/16	30	30	1.42	1.47	0	GOOD	10-26-16
2-12	R.L.	10/26/16	30	30	1.40	1.45	0	GOOD	10-26-16
1-2	R.L.	10/26/16	30	30	1.46	1.51	1	GOOD	10-26-16
1-2	R.L.	10/26/16	30	30	1.44	1.49	1	GOOD	10-26-16
12-13	R.L.	10/26/16	30	30	1.48	1.53	0	GOOD	10-26-16

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1-3	R.L.	10/26/16	30	30	1.50	1.55	0	GOOD	10-216

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Project Name: PONDS SECOND POND							**Job Number**		
Field Supervisor: A.LARA							**Page 1 of 3**		
Location: GARNER STATE PARK							**Sheet Thickness and Type-60-MIL- S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
27-28	R.L.	10/28/16	30	30	11.29	11.34	0	GOOD	10-28-16
26-27	R.L.	10/28/16	30	30	11.27	11.32	0	GOOD	10-28-16
26-28	R.L.	10/28/16	30	30	11.25	11.30	0	GOOD	10-28-16
20-28	R.L.	10/28/16	30	30	11.23	11.28	0	GOOD	10-28-16
20-26	R.L.	10/28/16	30	30	11.21	11.26	0	GOOD	10-28-16
25-26	R.L.	10/28/16	30	30	11.19	11.24	0	GOOD	10-28-16
20-25	R.L.	10/28/16	30	30	11.17	11.22	0	GOOD	10-28-16
24-25	R.L.	10/28/16	30	30	11.15	11.20	0	GOOD	10-28-16
20-24	R.L.	10/28/16	30	30	11.13	11.18	0	GOOD	10-28-16
21-24	R.L.	10/28/16	30	30	11.09	11.14	0	GOOD	10-28-16
23-24	R.L.	10/28/16	30	30	11.07	11.12	0	GOOD	10-28-16
21-23	R.L.	10/28/16	30	30	11.05	11.10	0	GOOD	10-28-16
20-21	R.L.	10/28/16	30	30	11.11	11.16	0	GOOD	10-28-16
21-22	R.L.	10/28/16	30	30	11.01	11.06	0	GOOD	10-28-16
22-23	R.L.	10/28/16	30	30	11.03	11.08	0	GOOD	10-28-16
19-20	R.L.	10/28/16	30	30	12.59	1.04	0	GOOD	10-28-16
18-19	R.L.	10/28/16	30	30	1.01	1.06	0	GOOD	10-28-16
17-18	R.L.	10/28/16	30	30	1.05	1.10	0	GOOD	10-28-16
16-17	R.L.	10/28/16	30	30	1.07	1.12	0	GOOD	10-28-16

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Project Name: PONDS SECOND POND					**Job Number**				
Field Supervisor: A.LARA					**Page 2 of 3**				
Location: GARNER STATE PARK					**Sheet Thickness and Type 60-MIL -S**				
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
15-16	R.L.	10/28/16	30	30	1.09	1.14	O	GOOD	10-28-16
14-15	R.L.	10/28/16	30	30	1.13	1.18	O	GOOD	10-28-16
13-14	R.L.	10/28/16	30	30	1.15	1.20	O	GOOD	10-28-16
12-13	R.L.	10/28/16	30	30	1.17	1.22	O	GOOD	10-28-16
11-12	R.L.	10/28/16	30	30	1.19	1.24	O	GOOD	10-28-16
10-11	R.L.	10/28/16	30	30	1.21	1.26	O	GOOD	10-28-16
1-10	R.L.	10/28/16	30	30	1.23	1.28	1	GOOD	10-28-16
1-2	R.L.	10/28/16	30	30	1.25	1.30	1	GOOD	10-28-16
2-3	R.L.	10/28/16	30	30	1.27	1.32	O	GOOD	10-28-16
3-4	R.L.	10/28/16	30	30	1.29	1.34	O	GOOD	10-28-16
2-4	R.L.	10/28/16	30	30	1.31	1.36	O	GOOD	10-28-16
4-5	R.L.	10/28/16	30	30	1.33	1.38	O	GOOD	10-28-16
2-5	R.L.	10/28/16	30	30	1.35	1.40	O	GOOD	10-28-16
1-5	R.L.	10/28/16	30	30	1.37	1.42	1	GOOD	10-28-16
5-6	R.L.	10/28/16	30	30	1.39	1.44	1	GOOD	10-28-16
1-6	R.L.	10/28/16	30	30	1.41	1.46	O	GOOD	10-28-16
6-7	R.L.	10/28/16	30	30	1.43	1.48	O	GOOD	10-28-16
1-7	R.L.	10/28/16	30	30	1.45	1.50	1	GOOD	10-28-16
1-7	R.L.	10/28/16	30	30	1.55	2.00	1	GOOD	10-28-16

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Project Name: PONDS SECOND POND							**Job Number**		
Field Supervisor: A.LARA							**Page 3 of 3**		
Location: GARNER STATE PARK							**Sheet Thickness and Type 60-MIL S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
7-9	R.L.	10/28/16	30	30	1.49	1.54	0	GOOD	10-28-16
1-9	R.L.	10/28/16	30	30	1.47	1.52	0	GOOD	10-28-16
7-8	R.L.	10/28/16	30	30	1.53	1.58	0	GOOD	10-28-16
8-9	R.L.	10/28/16	30	30	1.51	1.56	0	GOOD	10-28-16

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Project Name: PONDS THIRD- POND									**Job Number**
Field Supervisor: A.LARA									**Page 1 of**
Location: GARNER STATE PARK									**Sheet Thickness and Type-60-MIL- S**
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
21-22	R.L.	10/31/16	30	30	8.15	8.20	0	GOOD	10-31-16
22-26	R.L.	10/31/16	30	30	8.13	8.18	0	GOOD	10-31-16
25-26	R.L.	10/31/16	30	30	8.17	8.22	0	GOOD	10-31-16
22-25	R.L.	10/31/16	30	30	8.19	8.24	0	GOOD	10-31-16
22-23	R.L.	10/31/16	30	30	8.23	8.28	0	GOOD	10-31-16
23-25	R.L.	10/31/16	30	30	8.21	8.26	0	GOOD	10-31-16
24-25	R.L.	10/31/16	30	30	8.25	8.30	0	GOOD	10-31-16
23-24	R.L.	10/31/16	30	30	8.27	8.32	0	GOOD	10-31-16
21-22	R.L.	10/31/16	30	30	8.11	8.16	0	GOOD	10-31-16
26-27	R.L.	10/31/16	30	30	8.09	8.14	0	GOOD	10-31-16
21-27	R.L.	10/31/16	30	30	8.07	8.12	0	GOOD	10-31-16
27-28	R.L.	10/31/16	30	30	8.05	8.10	0	GOOD	10-31-16
21-28	R.L.	10/31/16	30	30	8.03	8.08	0	GOOD	10-31-16
21-32	R.L.	10/31/16	30	30	8.01	8.06	0	GOOD	10-31-16
28-32	R.L.	10/31/16	30	30	7.57	8.02	0	GOOD	10-31-16
28-29	R.L.	10/31/16	30	30	7.55	8.00	0	GOOD	10-31-16
29-32	R.L.	10/31/16	30	30	7.53	7.58	0	GOOD	10-31-16
31-32	R.L.	10/31/16	30	30	7.51	7.56	0	GOOD	10-31-16
29-31	R.L.	10/31/16	30	30	7.49	7.54	0	GOOD	10-31-16

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Project Name: PONDS THIRD- POND							**Job Number**		
Field Supervisor: A.LARA							**Page 2 of**		
Location: GARNER STATE PARK							**Sheet Thickness and Type 60-MIL -S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
29-30	R.L.	10/31/16	30	30	7.45	7.50	O	GOOD	10-31-16
30-31	R.L.	10/31/16	30	30	7.47	7.52	O	GOOD	10-31-16
20-21	R.L.	10/31/16	30	30	8.30	8.35	O	GOOD	10-31-16
19-20	R.L.	10/31/16	30	30	8.32	8.37	O	GOOD	10-31-16
18-19	R.L.	10/31/16	30	30	8.34	8.39	O	GOOD	10-31-16
17-18	R.L.	10/31/16	30	30	8.36	8.41	O	GOOD	10-31-16
16-17	R.L.	10/31/16	30	30	8.38	8.43	O	GOOD	10-31-16
15-16	R.L.	10/31/16	30	30	8.40	8.45	O	GOOD	10-31-16
14-15	R.L.	10/31/16	30	30	8.42	8.47	O	GOOD	10-31-16
13-14	R.L.	10/31/16	30	30	8.44	8.49	O	GOOD	10-31-16
2-13	R.L.	10/31/16	30	30	8.46	8.51	O	GOOD	10-31-16
1-2	R.L.	10/31/16	30	30	8.48	8.53	O	GOOD	10-31-16
1-12	R.L.	10/31/16	30	30	8.50	8.55	O	GOOD	10-31-16
9-12	R.L.	10/31/16	30	30	8.52	8.57	O	GOOD	10-31-16
9-10	R.L.	10/31/16	30	30	8.54	8.59	O	GOOD	10-31-16
10-12	R.L.	10/31/16	30	30	8.56	9.01	O	GOOD	10-31-16
11-12	R.L.	10/31/16	30	30	8.58	9.03	O	GOOD	10-31-16
10-11	R.L.	10/31/16	30	30	9.01	9.06	O	GOOD	10-31-16
1-9	R.L.	10/31/16	30	30	9.03	9.08	O	GOOD	10-31-16

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Project Name: PONDS THIRD- POND									**Job Number**
Field Supervisor: A.LARA									**Page 3 of**
Location: GARNER STATE PARK									**Sheet Thickness and Type 60-MIL S**
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
8-9	R.L.	10/31/16	30	30	9.05	9.10	0	GOOD	10-31-16
1-8	R.L.	10/31/16	30	30	9.07	9.12	0	GOOD	10-31-16
7-8	R.L.	10/31/16	30	30	9.09	9.14	0	GOOD	10-31-16
1-7	R.L.	10/31/16	30	30	9.11	9.16	0	GOOD	10-31-16
6-7	R.L.	10/31/16	30	30	9.13	9.18	0	GOOD	10-31-16
3-6	R.L.	10/31/16	30	30	9.15	9.20	0	GOOD	10-31-16
1-3	R.L.	10/31/16	30	30	9.17	9.22	0	GOOD	10-31-16
3-4	R.L.	10/31/16	30	30	9.19	9.24	0	GOOD	10-31-16
4-6	R.L.	10/31/16	30	30	9.23	9.28	0	GOOD	10-31-16
5-6	R.L.	10/31/16	30	30	9.21	9.26	0	GOOD	10-31-16
4-5	R.L.	10/31/16	30	30	9.25	9.30	0	GOOD	10-31-16

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Project Name: PONDS THIRD- POND							**Job Number**		
Field Supervisor: A.LARA							**Page 1 of**		
Location: GARNER STATE PARK							**Sheet Thickness and Type-60-MIL- S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
21-22	R.L.	10/31/16	30	30	8.15	8.20	0	GOOD	10-31-16
22-26	R.L.	10/31/16	30	30	8.13	8.18	0	GOOD	10-31-16
25-26	R.L.	10/31/16	30	30	8.17	8.22	0	GOOD	10-31-16
22-25	R.L.	10/31/16	30	30	8.19	8.24	0	GOOD	10-31-16
22-23	R.L.	10/31/16	30	30	8.23	8.28	0	GOOD	10-31-16
23-25	R.L.	10/31/16	30	30	8.21	8.26	0	GOOD	10-31-16
24-25	R.L.	10/31/16	30	30	8.25	8.30	0	GOOD	10-31-16
23-24	R.L.	10/31/16	30	30	8.27	8.32	0	GOOD	10-31-16
21-22	R.L.	10/31/16	30	30	8.11	8.16	0	GOOD	10-31-16
26-27	R.L.	10/31/16	30	30	8.09	8.14	0	GOOD	10-31-16
21-27	R.L.	10/31/16	30	30	8.07	8.12	0	GOOD	10-31-16
27-28	R.L.	10/31/16	30	30	8.05	8.10	0	GOOD	10-31-16
21-28	R.L.	10/31/16	30	30	8.03	8.08	0	GOOD	10-31-16
21-32	R.L.	10/31/16	30	30	8.01	8.06	0	GOOD	10-31-16
28-32	R.L.	10/31/16	30	30	7.57	8.02	0	GOOD	10-31-16
28-29	R.L.	10/31/16	30	30	7.55	8.00	0	GOOD	10-31-16
29-32	R.L.	10/31/16	30	30	7.53	7.58	0	GOOD	10-31-16
31-32	R.L.	10/31/16	30	30	7.51	7.56	0	GOOD	10-31-16
29-31	R.L.	10/31/16	30	30	7.49	7.54	0	GOOD	10-31-16

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Project Name: PONDS THIRD- POND							**Job Number**		
Field Supervisor: A.LARA							**Page 2 of**		
Location: GARNER STATE PARK							**Sheet Thickness and Type 60-MIL -S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
29-30	R.L.	10/31/16	30	30	7.45	7.50	O	GOOD	10-31-16
30-31	R.L.	10/31/16	30	30	7.47	7.52	O	GOOD	10-31-16
20-21	R.L.	10/31/16	30	30	8.30	8.35	O	GOOD	10-31-16
19-20	R.L.	10/31/16	30	30	8.32	8.37	O	GOOD	10-31-16
18-19	R.L.	10/31/16	30	30	8.34	8.39	O	GOOD	10-31-16
17-18	R.L.	10/31/16	30	30	8.36	8.41	O	GOOD	10-31-16
16-17	R.L.	10/31/16	30	30	8.38	8.43	O	GOOD	10-31-16
15-16	R.L.	10/31/16	30	30	8.40	8.45	O	GOOD	10-31-16
14-15	R.L.	10/31/16	30	30	8.42	8.47	O	GOOD	10-31-16
13-14	R.L.	10/31/16	30	30	8.44	8.49	O	GOOD	10-31-16
2-13	R.L.	10/31/16	30	30	8.46	8.51	O	GOOD	10-31-16
1-2	R.L.	10/31/16	30	30	8.48	8.53	O	GOOD	10-31-16
1-12	R.L.	10/31/16	30	30	8.50	8.55	O	GOOD	10-31-16
9-12	R.L.	10/31/16	30	30	8.52	8.57	O	GOOD	10-31-16
9-10	R.L.	10/31/16	30	30	8.54	8.59	O	GOOD	10-31-16
10-12	R.L.	10/31/16	30	30	8.56	9.01	O	GOOD	10-31-16
11-12	R.L.	10/31/16	30	30	8.58	9.03	O	GOOD	10-31-16
10-11	R.L.	10/31/16	30	30	9.01	9.06	O	GOOD	10-31-16
1-9	R.L.	10/31/16	30	30	9.03	9.08	O	GOOD	10-31-16

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Project Name: PONDS THIRD- POND							**Job Number**		
Field Supervisor: A.LARA							**Page 3 of**		
Location: GARNER STATE PARK							**Sheet Thickness and Type 60-MIL S**		
SEAM Number	**TESTED BY**	**TEST DATE**	**AIR TEST PSI Before / After**		**Time Begin**	**End**	**No. of Repairs**	**TEST Results**	**ACCEPTED DATE**
8-9	R.L.	10/31/16	30	30	9.05	9.10	0	GOOD	10-31-16
1-8	R.L.	10/31/16	30	30	9.07	9.12	0	GOOD	10-31-16
7-8	R.L.	10/31/16	30	30	9.09	9.14	0	GOOD	10-31-16
1-7	R.L.	10/31/16	30	30	9.11	9.16	0	GOOD	10-31-16
6-7	R.L.	10/31/16	30	30	9.13	9.18	0	GOOD	10-31-16
3-6	R.L.	10/31/16	30	30	9.15	9.20	0	GOOD	10-31-16
1-3	R.L.	10/31/16	30	30	9.17	9.22	0	GOOD	10-31-16
3-4	R.L.	10/31/16	30	30	9.19	9.24	0	GOOD	10-31-16
4-6	R.L.	10/31/16	30	30	9.23	9.28	0	GOOD	10-31-16
5-6	R.L.	10/31/16	30	30	9.21	9.26	0	GOOD	10-31-16
4-5	R.L.	10/31/16	30	30	9.25	9.30	0	GOOD	10-31-16

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-25-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60 –MIL-SMOOTH	Temp Setting: 850 FIRST -POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.134	125		1.181		X	
2.138	130		2.174		X	
3.128	134		3.170		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.128	136		1.168		X	
2.121	131		2.172		X	
3.132	130		3.170		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-26-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60-MIL- SMOOTH	Temp Setting: 850 FIRST POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.143	138		1.186		X	
2.137	134		2.180		X	
3.140	142		3.176		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.130	136		1.165		X	
2.128	140		2.160		X	
3.132	138		3.158		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 2000
Date: 10-27-16	Type weld wedge extruder X
Weld Tech: B.E.	Speed Setting:
Liner Matl. 60-MIL-SMOOTH	Temp Setting: 300 FIRST POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.134			1.170		X	
2.128			2.174		X	
3.130			3.168		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.			1.			
2.			2.			
3.			3.			

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-29-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60 –MIL-SMOOTH	Temp Setting: 850 THIRD -POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.130	127		1.183		X	
2.132	134		2.170		X	
3.126	132		3.171		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.126	132		1.165		X	
2.120	133		2.170		X	
3.130	132		3.171		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-30-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60-MIL- SMOOTH	Temp Setting: 850 THIRD- POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.140	130		1.181		X	
2.133	132		2.183		X	
3.142	144		3.175		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.132	131		1.160		X	
2.124	142		2.162		X	
3.130	135		3.154		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 2000
Date: 10-31-16	Type weld wedge extruder X
Weld Tech: B.E.	Speed Setting:
Liner Matl. 60-MIL-SMOOTH	Temp Setting: 300 FIRST POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.130			1.172		X	
2.122			2.170		X	
3.132			3.163		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.126			1.154		X	
2.120			2.152		X	
3.124			3.160		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-27-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60 –MIL-SMOOTH	Temp Setting: 850 SECOND -POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.134	125		1.181		X	
2.138	130		2.174		X	
3.128	134		3.170		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.128	136		1.168		X	
2.121	131		2.172		X	
3.132	130		3.170		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 05
Date: 10-28-16	Type weld wedge X extruder
Weld Tech: A.M.	Speed Setting: 7
Liner Matl. 60-MIL- SMOOTH	Temp Setting: 850 SECOND- POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.143	138		1.186		X	
2.137	134		2.180		X	
3.140	142		3.176		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.130	136		1.165		X	
2.128	140		2.160		X	
3.132	138		3.158		X	

Comments on repairs:

Supervisor: Armando Lara

Pre-Weld Test

Job Name GARNER STATE PARK	Machine# 2000
Date: 10-28-16	Type weld wedge extruder X
Weld Tech: B.E.	Speed Setting:
Liner Matl. 60-MIL-SMOOTH	Temp Setting: 300 FIRST POND

AM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.134			1.170		X	
2.128			2.174		X	
3.130			3.168		X	

Comments on repairs:

PM Test Results

Peel in-side	Peel out-side		Shear test		pass	fail
1.124			1.156		X	
2.121			2.150		X	
3.120			3.164		X	

Comments on repairs:

Supervisor: Armando Lara

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Job Name GARNER STATE PARK FIRST-POND	Material Type 60-MIL SMOOTH

GEOMEMBRANE REPAIR LOG

REPAIR #	TECH	WELDER #	DATE	TIME	PATCH SIZE
1	B.E.	2000	10-27-16	7.35	2-2
2	B.E.	2000	10-27-16	7.40	2-3
3	B.E.	2000	10-27-16	7.46	2-2
4	B.E.	2000	10-27-16	7.50	2-2
5	B.E.	2000	10-27-16	7.55	2-3
6	B.E.	2000	10-27-16	8.00	2-2
7	B.E.	2000	10-27-16	8.04	1.5-1.5
8	B.E.	2000	10-27-16	8.09	2-3
9	B.E.	2000	10-27-16	8.15	2-2
10	B.E.	2000	10-27-16	8.30	2-2
11	B.E.	2000	10-27-16	8.36	1.5-1.5
12	B.E.	2000	10-27-16	8.41	2-2
13	B.E.	2000	10-27-16	8.46	2-4
14	B.E.	2000	10-27-16	8.53	2-2
15	B.E.	2000	10-27-16	9.04	2-2
16	B.E.	2000	10-27-16	9.10	2-2
17	B.E.	2000	10-27-16	9.16	2-2
18	B.E.	2000	10-27-16	9.30	1.5-2
19	B.E.	2000	10-27-16	9.35	2-2
20	B.E.	2000	10-27-16	9.39	2-2
21	B.E.	2000	10-27-16	9.45	2-3
22	B.E.	2000	10-27-16	9.51	2-2
23	B.E.	2000	10-27-16	9.56	1.5-2
24	B.E.	2000	10-27-16	10.01	1.5-1.5

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Job Name GARNER STATE PARK SECOND-POND	Material Type 60-MIL SMOOTH

GEOMEMBRANE REPAIR LOG

REPAIR #	TECH	WELDER #	DATE	TIME	PATCH SIZE
1	B.E.	2000	10-28-16	2.00	1.5-1.5
2	B.E.	2000	10-28-16	2.06	2-2
3	B.E.	2000	10-28-16	2.12	2-2
4	B.E.	2000	10-28-16	2.19	1.5-1.5
5	B.E.	2000	10-28-16	2.28	1.5-1.5
6	B.E.	2000	10-28-16	2.35	1.5-1.5
7	B.E.	2000	10-28-16	2.43	2-3
8	B.E.	2000	10-28-16	2.52	2-2
9	B.E.	2000	10-28-16	3.05	2-2
10	B.E.	2000	10-28-16	3.13	1.5-1.5
11	B.E.	2000	10-28-16	3.19	1.5-1.5
12	B.E.	2000	10-28-16	3.27	2-2
13	B.E.	2000	10-28-16	3.34	2-2
14	B.E.	2000	10-28-16	3.43	1.5-1.5
15	B.E.	2000	10-28-16	3.50	2-2

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Job Name GARNER STATE PARK THIRD-POND	Material Type 60 MIL-SMOOTH

GEOMEMBRANE REPAIR LOG

REPAIR #	TECH	WELDER #	DATE	TIME	PATCH SIZE
1	B.E.	2000	10-31-16	10.00	3-3
2	B.E.	2000	10-31-16	10.05	2-2
3	B.E.	2000	10-31-16	10.11	1.5-1.5
4	B.E.	2000	10-31-16	10.20	1.5-1.5
5	B.E.	2000	10-31-16	10.32	2-2
6	B.E.	2000	10-31-16	10.39	2-2
7	B.E.	2000	10-31-16	10.46	2-2
8	B.E.	2000	10-31-16	10.52	2-4
9	B.E.	2000	10-31-16	11.00	2-2
10	B.E.	2000	10-31-16	11.07	1.5-1.5
11	B.E.	2000	10-31-16	11.13	1.5-1.5
12	B.E.	2000	10-31-16	11.20	1.5-1.5
13	B.E.	2000	10-31-16	11.27	1.5-1.5
14	B.E.	2000	10-31-16	11.35	2-2
15	B.E.	2000	10-31-16	11.43	2-2
16	B.E.	2000	10-31-16	11.50	2-2
17	B.E.	2000	10-31-16	11.58	1.5-1.5
18	B.E.	2000	10-31-16	12.06	1.5-1.5

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Job Name- GARNER STATE PARK FIRST-POND	Material Type 60-mil SMOOTH

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
1-2	A.M.	05	10-25-16	1.09	1.13
2-3	A.M.	05	10-25-16	1.06	1.08
3-4	A.M.	05	10-25-16	12.54	1.01
4-5	A.M.	05	10-25-16	1.17	1.22
5-6	A.M.	05	10-25-16	1.25	1.29
7-8	A.M.	05	10-25-16	1.30	1.31
8-9	A.M.	05	10-25-16	1.34	1.36
4-9	A.M.	05	10-25-16	2.21	2.23
5-9	A.M.	05	10-25-16	2.23	2.26
5-8	A.M.	05	10-25-16	2.26	2.28
6-8	A.M.	05	10-25-16	2.28	2.30
6-7	A.M.	05	10-25-16	2.30	2.31
12-13	A.M.	05	10-25-16	2.37	2.38
11-12	A.M.	05	10-25-16	2.34	2.37
1-13	A.M.	05	10-25-16	2.40	2.41
1-12	A.M.	05	10-25-16	2.41	2.43
2-12	A.M.	05	10-25-16	2.43	2.44
2-11	A.M.	05	10-25-16	2.44	2.46
3-11	A.M.	05	10-25-16	2.46	2.47
10-11	A.M.	05	10-25-16	2.00	2.06
3-10	A.M.	05	10-25-16	2.06	2.08
4-10	A.M.	05	10-25-16	2.08	2.10
9-10	A.M.	05	10-25-16	2.10	2.18
10-14	A.M.	05	10-25-16	3.00	3.16
14-15	A.M.	05	10-25-16	3.18	3.34
15-16	A.M.	05	10-25-16	3.40	3.54
16-17	A.M.	05	10-25-16	4.00	4.19
17-18	A.M.	05	10-25-16	4.22	4.41
18-19	A.M.	05	10-25-16	4.45	4.58

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Job Name GARNER STATE PARK	Material Type 60-MIL SMOOTH

FIRST- POND

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
19-20	A.M.	05	10-26-16	8.30	8.46
20-21	A.M.	05	10-26-16	8.50	9.03
21-22	A.M.	05	10-26-16	9.05	9.21
23-24	A.M.	05	10-26-16	10.22	10.24
22-23	A.M.	05	10-26-16	9.26	9.37
23-24	A.M.	05	10-26-16	10.40	10.43
24-25	A.M.	05	10-26-16	7.58	7.59
26-27	A.M.	05	10-26-16	8.08	8.10
27-28	A.M.	05	10-26-16	9.37	9.39
28-29	A.M.	05	10-26-16	9.46	9.49
29-30	A.M.	05	10-26-16	9.51	9.56
30-31	A.M.	05	10-26-16	10.11	10.12
32-33	A.M.	05	10-26-16	9.59	10.00
33-34	A.M.	05	10-26-16	10.04	10.06
22-34	A.M.	05	10-26-16	10.54	11.00
31-33	A.M.	05	10-26-16	10.14	10.15
31-32	A.M.	05	10-26-16	10.15	10.17
30-33	A.M.	05	10-26-16	10.27	10.29
10-34	A.M.	05	10-26-16	10.29	10.30
29-34	A.M.	05	10-26-16	10.31	10.32
23-29	A.M.	05	10-26-16	10.31	10.32
23-29	A.M.	05	10-26-16	10.32	10.34
21-25	A.M.	05	10-26-16	10.47	10.49
24-27	A.M.	05	10-26-16	10.49	10.51

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Job Name- GARNER STATE PARK SECOND-POND	Material Type 60-mil SMOOTH

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
1-2	A.M.	05	10-27-16	3.17	3.21
2-3	A.M.	05	10-27-16	3.15	3.16
4-5	A.M.	05	10-27-16	4.27	4.30
5-6	A.M.	05	10-27-16	4.18	4.22
6-7	A.M.	05	10-27-16	4.22	4.25
7-8	A.M.	05	10-27-16	4.43	4.46
8-9	A.M.	05	10-27-16	4.48	4.51
7-9	A.M.	05	10-27-16	4.51	4.52
1-9	A.M.	05	10-27-16	4.36	4.40
1-7	A.M.	05	10-27-16	4.52	4.55
1-6	A.M.	05	10-27-16	4.55	4.58
1-5	A.M.	05	10-27-16	4.58	5.00
2-5	A.M.	05	10-27-16	5.00	5.01
2-4	A.M.	05	10-27-16	5.01	5.03
3-4	A.M.	05	10-27-16	5.03	5.04
1-10	A.M.	05	10-27-16	2.58	3.13
10-11	A.M.	05	10-27-16	3.30	3.43
11-12	A.M.	05	10-27-16	3.48	4.01
12-13	A.M.	05	10-27-16	4.03	4.15
13-14	A.M.	05	10-28-16	11.01	11.25
14-15	A.M.	05	10-28-16	8.20	8.33
15-16	A.M.	05	10-28-16	8.34	8.50
16-17	A.M.	05	10-28-16	8.54	9.08
17-18	A.M.	05	10-28-16	9.10	9.23
18-19	A.M.	05	10-28-16	9.24	9.39
19-20	A.M.	05	10-28-16	9.42	9.57
20-28	A.M.	05	10-28-16	10.18	10.23
26-27	A.M.	05	10-28-16	10.35	10.37
25-26	A.M.	05	10-28-16	10.04	10.07

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Job Name GARNER STATE PARK	Material Type 60-MIL SMOOTH

SECOND- POND

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
24-25	A.M.	05	10-26-16	8.30	8.46
23-24	A.M.	05	10-26-16	8.50	9.03
20-21	A.M.	05	10-26-16	9.05	9.21
21-22	A.M.	05	10-26-16	10.22	10.24
22-23	A.M.	05	10-26-16	9.26	9.37
21-23	A.M.	05	10-26-16	10.40	10.43
21-24	A.M.	05	10-26-16	7.58	7.59
20-24	A.M.	05	10-26-16	8.08	8.10
20-25	A.M.	05	10-26-16	9.37	9.39
20-26	A.M.	05	10-26-16	9.46	9.49
26-28	A.M.	05	10-26-16	9.51	9.56
27-28	A.M.	05	10-26-16	10.11	10.12

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Job Name- GARNER STATE PARK THIRD-POND	Material Type 60-mil SMOOTH

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
1-2	A.M.	05	10-29-16	12.46	1.01
1-3	A.M.	05	10-29-16	1.02	1.06
3-6	A.M.	05	10-29-16	2.54	2.57
3-4	A.M.	05	10-29-16	1.07	1.09
4-6	A.M.	05	10-29-16	2.57	2.58
5-6	A.M.	05	10-29-16	1.21	1.23
4-5	A.M.	05	10-29-16	2.57	2.59
6-7	A.M.	05	10-29-16	1.16	1.20
7-8	A.M.	05	10-29-16	1.27	1.30
8-9	A.M.	05	10-29-16	2.11	2.16
9-10	A.M.	05	10-29-16	2.37	2.40
11-12	A.M.	05	10-29-16	2.29	2.30
10-11	A.M.	05	10-29-16	2.40	2.41
10-12	A.M.	05	10-29-16	2.41	2.43
9-12	A.M.	05	10-29-16	2.43	2.44
1-12	A.M.	05	10-29-16	2.07	2.10
1-9	A.M.	05	10-29-16	2.46	2.48
1-8	A.M.	05	10-29-16	2.48	2.51
1-7	A.M.	05	10-29-16	2.51	2.54
2-13	A.M.	05	10-29-16	1.46	1.54
13-14	A.M.	05	10-29-16	1.55	2.09
14-15	A.M.	05	10-29-16	3.00	3.11
15-16	A.M.	05	10-29-16	3.15	3.26
16-17	A.M.	05	10-29-16	3.30	3.40
17-18	A.M.	05	10-29-16	3.43	3.56
18-19	A.M.	05	10-30-16	8.35	8.42
19-20	A.M.	05	10-30-16	8.48	9.05
20-21	A.M.	05	10-30-16	9.11	9.27
21-32	A.M.	05	10-30-16	10.22	10.27

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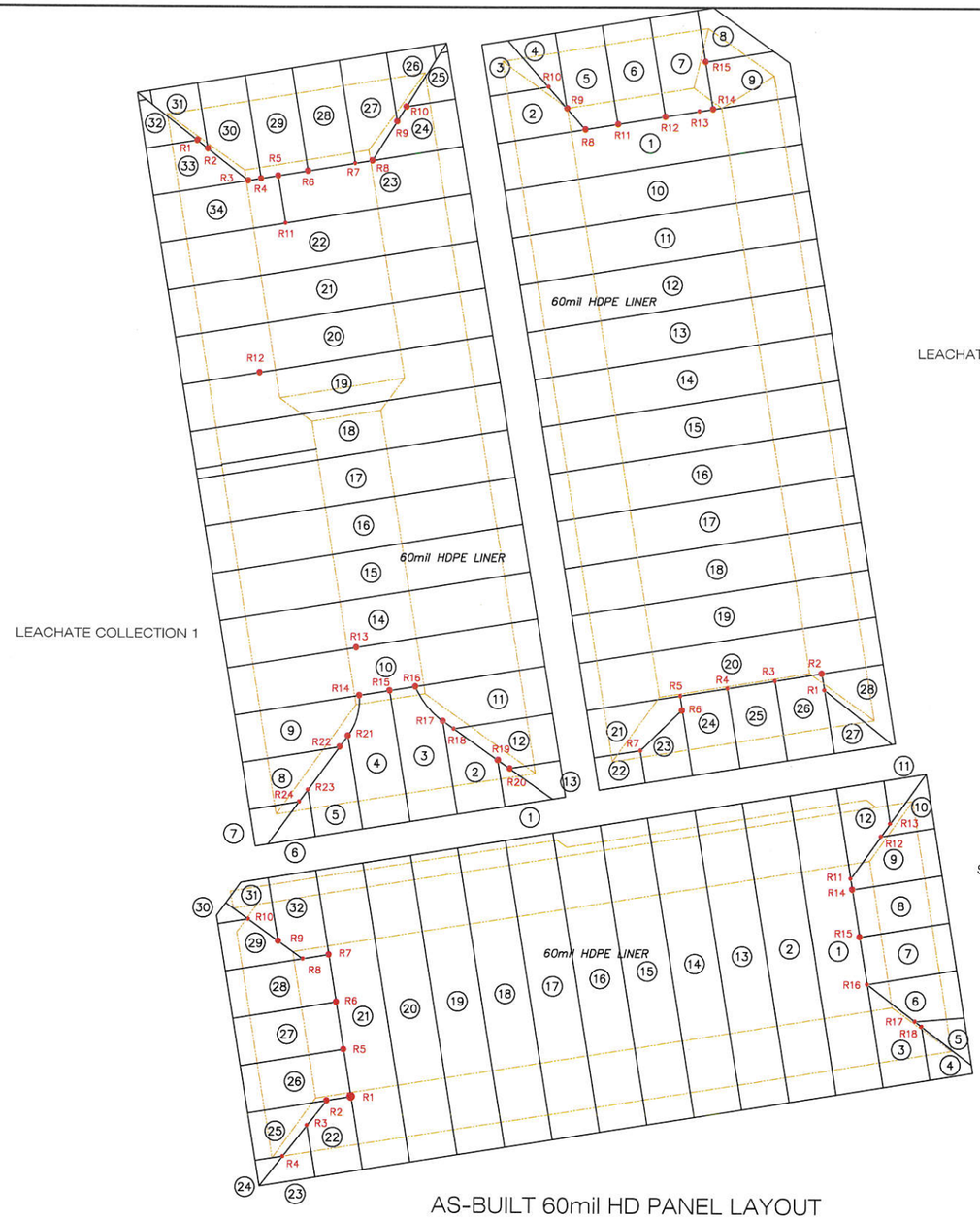
Job Name GARNER STATE PARK	Material Type 60-MIL SMOOTH

THIRD- POND

GEOMEMBRANE SEAMING LOG

SEAM #	TECH	WELDER #	DATE	Start Time	Finish Time
21-28	A.M.	05	10-30-16	11.02	11.05
21-27	A.M.	05	10-30-16	11.05	11.08
21-26	A.M.	05	10-30-16	11.08	11.11
21-22	A.M.	05	10-30-16	9.48	9.51
22-26	A.M.	05	10-30-16	10.10	10.11
22-25	A.M.	05	10-30-16	10.05	10.07
22-23	A.M.	05	10-30-16	9.52	9.55
23-25	A.M.	05	10-30-16	10.02	10.03
23-24	A.M.	05	10-30-16	10.01	10.02
24-25	A.M.	05	10-30-16	9.28	9.29
25-26	A.M.	05	10-30-16	9.30	9.32
26-27	A.M.	05	10-30-16	8.20	8.23
27-28	A.M.	05	10-30-16	10.20	10.13
28-29	A.M.	05	10-30-16	10.42	10.44
31-32	A.M.	05	10-30-16	10.30	10.33
29-30	A.M.	05	10-30-16	10.47	10.48
30-31	A.M.	05	10-30-16	10.56	10.57
29-31	A.M.	05	10-30-16	10.57	10.59
28-32	A.M.	05	10-30-16	11.00	11.01
28-32	A.M.	05	10-30-16	11.01	11.03



AS-BUILT 60mil HD PANEL LAYOUT

SCALE : 1" = 30'

60mil HDPE PANEL SEAM

POND TOES

(3) HDPE PANEL #

R15 REPAIR/PATCH #

FALCON ENVIRONMENTAL LINING SYSTEMS, INC.
5200 Johnson Road, Odessa, TX 79764
(432) 366 2611 FAX - 366 2999

AS-BUILT HDPE PANEL LAYOUT

GARNER STATE PARK WWTP
UVALDE, TX

Drawn By : JASMIN	Material :	Sheet No.	
Date : 11/14/16	60 mil HD GEOTEXTILE	1/1	
Checked By :			
Scale : 1" = 30'			

PERMIT NO. WQ0011962001

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

This is a renewal of Permit No. WQ0011962001 issued on August 31, 2005.

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

Texas Parks and Wildlife Department

whose mailing address is

4200 Smith School Road, MC80
Austin, Texas 78744

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 7033.

General Description and Location of Waste Disposal System:

Description:

Interim Phase: The Garner State Park Wastewater Treatment Facility consists of an activated sludge process plant using the extended aeration mode. Treatment units include an equalization basin, two aeration basins, a final clarifier, two sludge digesters, two effluent holding ponds, and chlorine contact chamber.

Final Phase: The wastewater treatment facility will consist of a pond system in the Final phase. Treatment units will include a facultative lagoon, two stabilization ponds, and two effluent holding ponds.

The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.060 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access land. The facility includes two storage ponds with a total surface area of 0.544 acres and total capacity of 1.39 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.4 acre-feet per year per acre irrigated. The irrigated crops include Bermuda grass and other native grasses.

Location: The wastewater treatment facility and disposal site are located 2,000 feet southeast from the intersection of U.S. Highway 83 and Ranch Road 1050, in Uvalde County, Texas 78838. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Frio River in Segment No. 2117 of the Nueces River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight on **May 1, 2025**.

ISSUED DATE: August 6, 2015

For the Commission

INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS
***During the period beginning upon the date of issuance and lasting through the completion of the new wastewater treatment facility.**

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

A. Effluent Limitations

Character: Treated Domestic Wastewater Effluent

Volume: Daily Average Flow – 0.060 MGD from the treatment system

Quality: The following effluent limitations are required:

	Effluent Concentrations (Not to Exceed)	
Parameter	Daily Average mg/l	Single Grab mg/l
Biochemical Oxygen Demand (5-day)	N/A	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes.

B. Monitoring Requirements:

Parameter	Monitoring Frequency	Sample Type
Flow	Five/week	Instantaneous
Biochemical Oxygen Demand (5-day)	One/month	Grab
pH	One/month	Grab
Chlorine Residual	One/week	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS
***During the period beginning upon the completion of the new wastewater treatment facility and lasting through date of expiration.**

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

A. Effluent Limitations

Character: Treated Domestic Wastewater Effluent

Volume: Daily Average Flow – 0.060 MGD from the treatment system

Quality: The following effluent limitations are required:

	Effluent Concentrations (Not to Exceed)	
Parameter	Daily Average mg/l	Single Grab mg/l
Biochemical Oxygen Demand (5-day)	N/A	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

B. Monitoring Requirements:

Parameter	Monitoring Frequency	Sample Type
Flow	Five/week	Instantaneous
Biochemical Oxygen Demand (5-day)	One/month	Grab
pH	One/month	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

DEFINITIONS

All definitions in Section 26.001 of the Texas Water Code 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. 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.

   b. 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 1 million gallons per day or greater permitted flow.

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

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.

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 which have not been classified as hazardous waste separated from wastewater by unit processes.

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

MONITORING REQUIREMENTS

1. Monitoring Requirements

   Monitoring results shall be collected 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 in accordance with 30 TAC §§ 319.4 - 319.12.

   As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 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, records 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 Chapter 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 and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit 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, or application. 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 determining compliance with permit requirements.

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. 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. 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 which exceeds any effluent limitation in the 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.

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).

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 which 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 Texas Water Code Section 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 Special Provisions section of this permit.

h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 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).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 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 Texas Water Code Section 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 could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;

      ii. 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 Texas Water Code § 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.

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 which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Property Rights

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

8. 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.

9. 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.

10. 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 use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 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 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 which 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 percent 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 percent 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 percent 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 judgement 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 169) 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. Facilities which 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 Environmental Cleanup 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 Remediation 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 Chapter 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.

11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

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SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site or co-disposal landfill. **The disposal of sludge 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 sludge. This provision does not authorize land application of Class A or Class AB Sewage Sludge. This provision does not authorize the permittee to land apply sludge on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge 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.

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 permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

B. Testing Requirements

1. Sewage sludge shall be tested once during the term of this permit (Interim Phase) and prior to sludge disposal (Final Phase) 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 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 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 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 Remediation 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, Registration, Review, and Reporting 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 Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year.

2. Sewage sludge 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.

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 pathogen requirements.

a. For sewage sludge to be classified as Class A with respect to pathogens, the density of fecal coliform in the sewage sludge 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 be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met.

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information.

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

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 with respect to pathogens, the density of fecal coliform in the sewage sludge 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%.

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.

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 sewage sludge may be classified a Class A sewage sludge 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 criteria for sewage sludge.

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, the following site restrictions must be met if Class B sludge is land applied:

i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains 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 sewage sludge when the sewage sludge remains 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 sewage sludge.

v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.

vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge 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 sewage sludge.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

ix. Land application of sludge 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. Sewage sludge shall be injected below the surface of the land.

ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is 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 sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Sewage sludge 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 sewage sludge that is incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge 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 (Interim Phase) and prior to sludge disposal (Final Phase)
PCBs	- once during the term of this permit (Interim Phase) and prior to sludge disposal (Final Phase)

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 sewage sludge (*) 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 sewage sludge 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

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

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

A. Pollutant Limits

Table 2

Pollutant	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

Pollutant	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk sewage sludge not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk sewage sludge 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 sewage sludge sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.

   b. A statement that application of the sewage sludge 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 sewage sludge application rate for the sewage sludge 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 sewage sludge is 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 sewage sludge is 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 sewage sludge 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 sewage sludge.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

E. Record keeping Requirements

The sludge 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 sewage sludge material shall develop the following information and shall retain the information at

the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B sludge, 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 sewage sludge is 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 sewage sludge or a sewage sludge 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 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 sludge is applied.

   c. The number of acres in each site on which bulk sludge is applied.

   d. The date and time sludge is 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 sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 13) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information:

1. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
2. The frequency of monitoring listed in Section I.C. that applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. Identity of hauler(s) and TCEQ transporter number.
5. PCB concentration in sludge in mg/kg.
6. Date(s) of disposal.
7. Owner of disposal site(s).
8. Texas Commission on Environmental Quality registration number, if applicable.
9. Amount of sludge disposal dry weight (lbs/acre) at each disposal site.
10. 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.
11. Level of pathogen reduction achieved (Class A, Class AB or Class B).
12. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B sludge, include information on how site restrictions were met.
13. Vector attraction reduction alternative used as listed in Section I.B.4.
14. Annual sludge production in dry tons/year.
15. Amount of sludge land applied in dry tons/year.
16. 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 treatment activities, shall be attached to the annual reporting form.

17. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk sewage sludge is applied.

    c. The date and time bulk sewage sludge is applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.

    e. The amount of sewage sludge (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 DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

A. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

D. Sewage sludge shall be tested once during the term of this permit (Interim Phase) and prior to sludge disposal (Final Phase) 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 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 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 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 Remediation 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, Registration, Review, and Reporting 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 Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year.

E. Sewage sludge shall be tested as needed, in accordance with the requirements of 30 TAC § 330.

F. Record keeping Requirements

   The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.

2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 13) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information:

1. Toxicity Characteristic Leaching Procedure (TCLP) results.

2. Annual sludge production in dry tons/year.

3. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.

4. Amount of sludge transported interstate in dry tons/year.

5. A certification that the sewage sludge meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

6. Identity of hauler(s) and transporter registration number.

7. Owner of disposal site(s).

8. Location of disposal site(s).

9. 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 TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge that is transported to another wastewater treatment facility or facility that further processes sludge. These provisions are intended to allow transport of sludge to facilities that have been authorized to accept sludge. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge, 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 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 may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge 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.

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 transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report the following information annually to the TCEQ Regional Office (MC Region 13) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year:

1. the annual sludge production;
2. the amount of sludge transported;
3. the owner of each receiving facility;
4. the location of each receiving facility; and
5. the date(s) of disposal at each receiving facility.

SPECIAL PROVISIONS:

1. This permit is granted subject to the policy of the Commission to encourage the development of areawide waste collection, treatment and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an areawide system, if an areawide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an areawide 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.

2. 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 § 30, Occupational Licenses and Registrations, and in particular 30 TAC § 30, Subchapter J, Wastewater Operators and Operations Companies.

   This Category D facility must be operated by a chief operator or an operator holding a Category D 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 which 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.

3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.

4. Irrigation practices shall be designed and managed so as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area.

5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.

6. The irrigated crops include Bermuda grass and other native grasses. Application rates to the irrigated land shall not exceed 3.4 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.

7. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC § 217, Design Criteria for Domestic Wastewater Systems.

8. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 20 acres. Subsamples shall be composited by like sampling depth and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 inches to 18 inches and 18 inches to 30 inches below ground level. The permittee shall sample and analyze soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample procurement.

   The permittee shall provide annual soil analyses of the land application area according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
pH	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 N KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN + nitrate-nitrogen (same as, organic-nitrogen + ammonium-nitrogen + nitrate-nitrogen)		mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1	mg/kg (dry weight basis)
Plant-available: Potassium	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K)	mg/kg (dry weight basis)
Amendment addition, e.g., gypsum	Recommendation from analytical laboratory		Report in *short tons/acre* in the year effected

   The permittee shall provide a copy of this plan to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 13)

and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division no later than end of September following the sampling date of each year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater and/or sludge has not been applied on the approved land disposal sites during that year.

9. The permittee shall maintain a long term contract with the owner(s) of the land application site which is authorized for use in this permit, or own the land authorized for land application of treated effluent.

10. The permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.

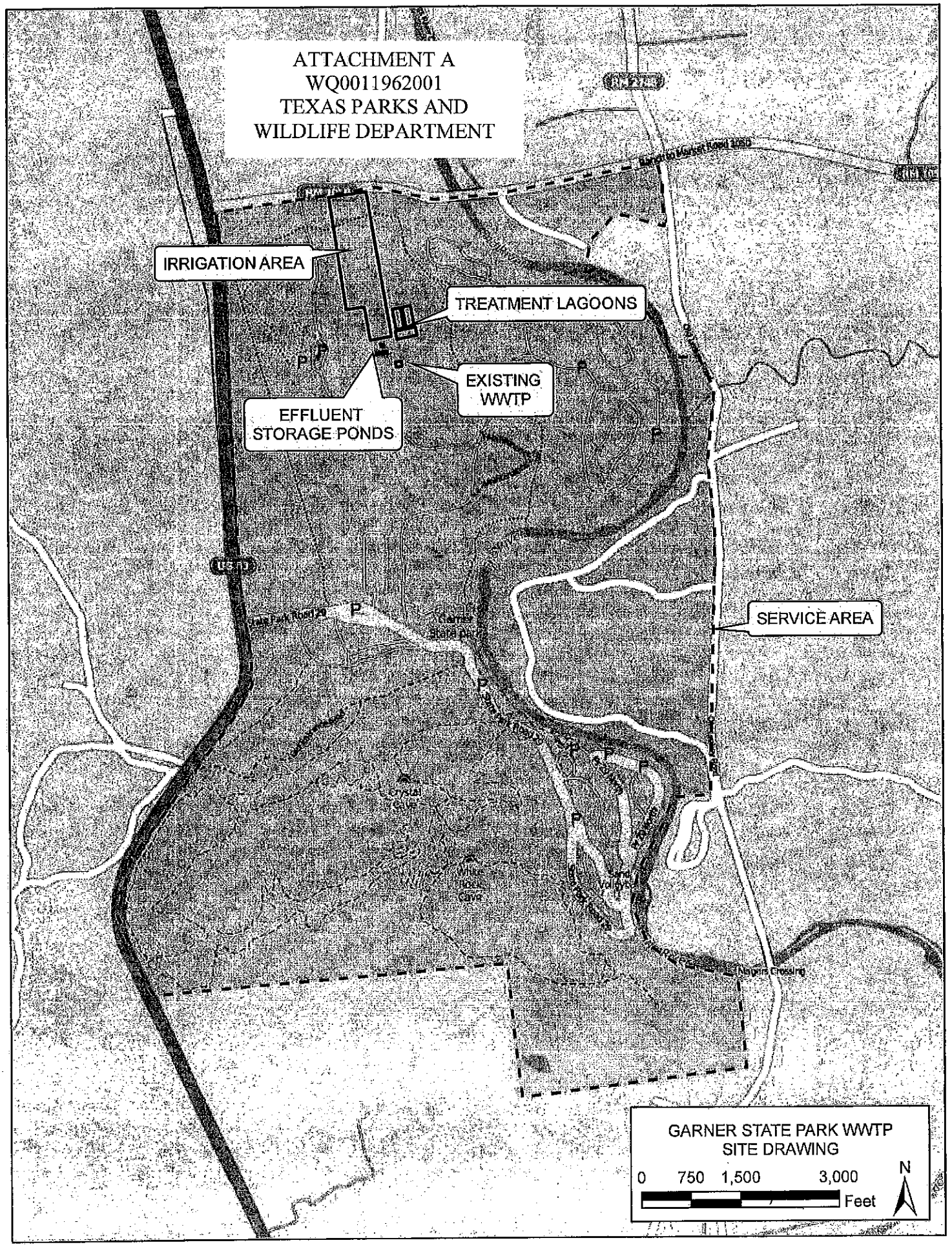
11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.

12. Irrigation with effluent shall be accomplished only when the area specified is not in use.

13. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.

14. Prior to construction of the wastewater treatment facility for the Final phase, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) of the Water Quality Division, a summary submittal letter according to the requirements in 30 TAC § 217.6(c). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications and a final engineering design report which comply with the requirements of 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the final permitted effluent limitations required on Page 2a of this permit.

15. The permittee shall notify 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 (45) days prior to the completion of the new wastewater treatment facility on Notification of Completion Form 20007.


ATTACHMENT A
WQ0011962001
TEXAS PARKS AND
WILDLIFE DEPARTMENT
IRRIGATION AREA
TREATMENT LAGOONS
EXISTING WWTP
EFFLUENT STORAGE PONDS
SERVICE AREA
Bandera to Medina Road 1283
Park Road 28
Garner State Park
Crystal Cave
White Rock Cave
Sandy Valley
Nagins Crossing
GARNER STATE PARK WWTP
SITE DRAWING
0 750 1,500 3,000
Feet
N

TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	Texas Parks and Wildlife Department TCEQ Permit No. WQ0011962001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	Renewal
Request:	Renewal with no changes
Authority:	Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies.

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 **ten years from the date of issuance,** according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

REASON FOR PROJECT PROPOSED

Texas Parks and Wildlife Department has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0011962001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.060 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access land. The facility includes two storage ponds with a total surface area of 0.59 acres and total capacity of 2.54 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the Garner State Park.

PROJECT DESCRIPTION AND LOCATION

The Garner State Park Wastewater Treatment Facility consists of a pond system. Treatment units include a facultative lagoon with a surface area of 0.73 acres and volume of 7.30 acre-feet, two stabilization ponds with a total surface area of 1.46 acres and volume of 4.38 acre-feet. The facility is in operation.

The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located 2,000 feet southeast from the intersection fo U.S. Highway 83 and Ranch Road 1050 in Uvalde County, Texas 78838.

The wastewater treatment facility and disposal site are located in the drainage basin of Frio River in Segment No. 2117 of the Nueces River Basin. No discharge of pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period January 2023 through December 2024. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow and five-day biochemical oxygen demand (BOD_5).

Parameter	Average of Daily Average
Flow, MGD	0.014
BOD_5, mg/l	32

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.060 MGD via surface irrigation of 20 acres of non-public access land. The facility includes a facultative lagoon with a surface area of 0.73 acres and and volume of 7.30 acre-ft, two stabilization ponds with total area of 1.46 acres and volume of 4.38 acre-ft and two effluent storage ponds with a total surface area of 0.59 acres and total capacity of 2.54 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.4 acre-feet per year per acre irrigated. The irrigated crops include bermuda and other grasses on non-public access land.

The effluent limitations in the draft permit, based on a single grab, is 65 mg/l biochemical oxygen demand (BOD_5).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

Special provisions 14 and 15 of the existing permit have been removed. Special provisions 4, 8 and 10 have been revised. Special provisions 14 through 22 have been added. The storage pond volume changed from 1.36 ac-ft to 2.54 ac-ft based on confirmed depth of ponds by applicant.

The Sludge Provisions, Special Provisions, and Standard Provisions have been revised in the draft permit.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on Febrary 24, 2025, and additional information received on August 12, 2025.

2. Existing TCEQ permit: Permit No. WQ0011962001 issued on August 6, 2015.

3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

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 Chris Graf, P.E. at (512) 239-4541.

Chris Graf — *August 13, 2025*

Chris Graf, P.E. — Date
Municipal Permits Team
Wastewater Permitting Section (MC 148)