



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
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 3. Second notice (NAPD-Notice of Preliminary Decision)
 - English
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 4. Application materials
 5. Draft permit
 6. Technical summary or fact sheet
-



Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

US Trinity Smithwick, LLC (CN606185817) proposes to operate US Trinity Wastewater Treatment Plant (RN111999264), a 0.18 MGD WWTP facility. The facility will be located Approximately 0.25 miles Southeast from the intersection of County Road 344 and Farm to Market 1431 Business, in Smithwick, TX, Burnet County, Texas 78654.

This is for a new application to discharge processed wastewater at an average daily flow of 180,000 gallons per day on an intermittent and flow-variable basis.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia Coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Domestic wastewater will be treated by a suspended growth activated sludge process in extended aeration mode and the treatment units will include a mechanical auger screen, equalization basin, aeration tanks, membrane bioreactor trains, a chlorine contact chamber and a dechlorination chamber. Discharge will be pumped into an effluent pond. Discharge from the facility is not anticipated to cause any adverse impacts to any receiving waters downstream or adjacent property owners. Phases 1, 2, 3 will each treat 60,000gpd each. The WWTP will treat 180,000gpd at full build-out. The influent will enter the plant via a lift station into a primary clarifier. The treatment units include an influent screening system, aeration basin, clarifier, chlorine contact basin and an aerobic digester. Wastewater will be pumped by an influent lift station into the plant where it will enter through a screen. The influent will then pass through the aeration zone and flow into a clarifier. From the clarifier, the effluent will flow to a chlorine contact basin for disinfection prior to tertiary filtration. From there the effluent will then be routed via pipe to an effluent storage pond, then routed to the effluent disposal area for spray disposal within the disposal site boundaries. This facility will also utilize a digester for sludge holding and reduction of solids prior to haul off.

PLANTILLA EN INGLÉS PARA SOLICITUDES DE NUEVA/RENOVACIÓN/ENMIENDA TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS

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

US Trinity Smithwick, LLC (CN606185817) propone operar la Planta de Tratamiento de Aguas Residuales Trinity de EE.UU. RN111999264. una instalación PTAR de 0.18 MGD. La instalación estará ubicada aproximadamente a 0,25 millas al sureste de la intersección de County Road 344 y Farm to Market 1431 Business, en Smithwick, TX, condado de Burnet, Texas 78654.

Esto es para una nueva aplicación para descargar aguas residuales procesadas a un flujo diario promedio de 180,000 galones por día de forma intermitente y de flujo variable.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD₅) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH₃-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados de crecimiento suspendido en modo de aireación extendida y las unidades de tratamiento incluirán una criba de tornillo mecánico, un estanque de ecualización, tanques de aireación y un biorreactor de membrana. trenes, una cámara de contacto de cloro y una cámara de decloración. La descarga se bombeará a un estanque de efluentes. No se prevé que la descarga de la instalación cause ningún impacto adverso a las aguas receptoras aguas abajo o a los propietarios de propiedades adyacentes. Las fases 1, 2 y 3 tratarán cada una 60.000 gpd. La instalación tratará 180.000 gpd en plena construcción. El afluente ingresará a la planta a través de una estación de bombeo hacia un clarificador primario. Las unidades de tratamiento incluyen un sistema de cribado de afluentes, balsa de aireación, clarificador, balsa de contacto de cloro y un digestor aeróbico. Las aguas residuales se bombearán a la planta donde ingresarán a través de una rejilla. Luego, el afluente pasará por la zona de aireación y fluirá hacia un clarificador. Desde el clarificador, el efluente fluirá a una cubeta de contacto con cloro para su desinfección antes de la filtración terciaria. Desde allí el efluente será conducido a un estanque de almacenamiento de efluentes. Luego, el efluente se eliminará mediante riego por aspersión. Esta instalación también utilizará un digestor para retener lodos y reducir los sólidos antes del transporte.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016564001

APPLICATION. US Trinity Smithwick, LLC, 200 Highland Circle, Argyle, Texas 76226, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016564001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 180,000 gallons per day via surface application on 70.2 acres of land. The domestic wastewater treatment facility and disposal area will be located approximately 0.25 miles southwest of the intersection of County Road 344 and Old Ranch-to-Market Road 1431, near the city of Marble Falls, in Burnet County, Texas 78654. TCEQ received this application on June 25, 2024. The permit application will be available for viewing and copying at Marble Falls City Hall, Public Notices Board, 800 3rd Street, Marble Falls, 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=-98.15286,30.553725&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.**

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 US Trinity Smithwick, LLC at the address stated above or by calling Ms. Lauren Crone, P.E., Senior Project Manager, LJA Engineering, at 512-439-4700.

Issuance Date: July 30, 2024

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016564001

SOLICITUD. US Trinity Smithwick, LLC, 200 Highland Circle, Argyle, Texas 76226 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0016564001 de disposición de aguas residuales] para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 180,000 galones por día mediante aplicación superficial en 70.2 acres de tierra. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en aproximadamente a 0.25 millas al suroeste de la intersección de County Road 344 y Old Ranch-to-Market Road 1431, cerca la ciudad de Marble Falls, en el condado de Burnet, Texas 78654. La TCEQ recibió esta solicitud el día el 25 de junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Ayuntamiento de Marble Falls, tablón de anuncios públicos, 800 3rd Street, Marble Falls, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.15286,30.553725&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.

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

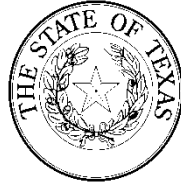
CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y

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

También se puede obtener información adicional del US Trinity Smithwick, LLC a la dirección indicada arriba o llamando a Senora Lauren Crone, P.E, LJA Engineering, al (512) 439-4700.

Fecha de emisión 30 de julio de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

NEW

PERMIT NO. WQ0016564001

APPLICATION AND PRELIMINARY DECISION. US Trinity Smithwick, LLC, 200 Highland Circle, Argyle, Texas 76226, has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, TCEQ Permit No. WQ0016564001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 180,000 gallons per day via surface irrigation of 70.2 acres of public access golf course. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on June 25, 2024.

The wastewater treatment facility and disposal site will be located approximately 0.25 miles southwest of the intersection of County Road 344 and Old Ranch-to-Market Road 1431, in Burnet County, Texas 78654. The wastewater treatment facility and disposal site will be located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado 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=-98.15286,30.553725&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 Marble Falls City Hall, Public Notices Board, 800 3rd Street, Marble Falls, 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 proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period; and the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

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

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

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

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

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

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

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

Further information may also be obtained from US Trinity Smithwick, LLC at the address stated above or by calling Ms. Lauren Crone, P.E., LJA Engineering, at (512) 439-4700.

Issuance Date December 1, 2025

COMISIÓN DE TEXAS SOBRE CALIDAD AMBIENTAL



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

NUEVO

PERMISO NO. WQ0016564001

SOLICITUD Y DECISIÓN PRELIMINAR. US Trinity Smithwick, LLC, 200 Highland Circle, Argyle, Texas 76226, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) un nuevo permiso, el Permiso TCEQ No. WQ0016564001, para autorizar la eliminación de aguas residuales domésticas tratadas con un caudal promedio diario que no exceda los 180,000 galones por día mediante el riego superficial de 70.2 acres de un campo de golf de acceso público. Este permiso no autoriza la descarga de contaminantes al agua del estado. La TCEQ recibió esta solicitud el 25 de junio de 2024.

La planta de tratamiento de aguas residuales y el vertedero estarán ubicados aproximadamente a 0,25 millas al suroeste de la intersección de County Road 344 y Old Ranch-to-Market Road 1431, en el condado de Burnet, Texas 78654. La planta de tratamiento de aguas residuales y el vertedero estarán ubicados en la cuenca hidrográfica del lago Travis, en el segmento n.º 1404 de la cuenca del río Colorado. Este enlace a un mapa electrónico de la ubicación general del sitio o la planta se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud:

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.15286,30.553725&level=18>

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. De aprobarse, este borrador establecería las condiciones de funcionamiento de la instalación. El Director Ejecutivo ha determinado preliminarmente que este permiso, de ser emitido, cumple con todos los requisitos legales y reglamentarios. La solicitud de permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para su consulta y copia en el Ayuntamiento de Marble Falls, Tablón de Avisos Públicos, 800 3rd Street, Marble Falls, Texas. La solicitud, incluyendo sus actualizaciones, y los avisos asociados están disponibles electrónicamente en la siguiente página web:

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

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

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

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

PARA SOLICITAR UNA AUDIENCIA DE CASO CONTROVERTIDO, DEBE INCLUIR LOS SIGUIENTES DATOS EN SU SOLICITUD: su nombre, dirección, número de teléfono; nombre del solicitante y número de permiso propuesto; la ubicación y distancia de su propiedad/actividades con respecto a la instalación propuesta; una descripción específica de cómo la instalación lo afectaría negativamente de una manera inusual para el público general; una lista de todas las cuestiones de hecho controvertidas que presente durante el período de comentarios; y la declaración "Solicito/Solicitamos una audiencia de caso controvertido". Si la solicitud de audiencia de caso controvertido se presenta en nombre de un grupo o asociación, la solicitud debe designar al representante del grupo para recibir correspondencia futura; identificar por nombre y dirección física a un miembro del grupo que se vería afectado negativamente por la instalación o actividad propuesta; proporcionar la información mencionada anteriormente sobre la ubicación y distancia del miembro afectado con respecto a la instalación o actividad; explicar cómo y por qué el miembro se vería afectado; y explicar cómo los intereses que el grupo busca proteger son relevantes para su propósito.

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

La Comisión solo podrá conceder una solicitud de audiencia de caso contencioso sobre cuestiones que el solicitante presentó en sus comentarios oportunos y que no fueron retiradas posteriormente. **Si se concede la audiencia, el tema de esta se limitará a cuestiones de hecho controvertidas o cuestiones mixtas de hecho y de derecho relacionadas con preocupaciones relevantes y sustanciales sobre la calidad del agua presentadas durante el período de comentarios.**

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

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

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

INFORMACIÓN DISPONIBLE EN LÍNEA. Para obtener más información sobre el estado de la solicitud, visite la Base de Datos Integrada de Comisionados en www.tceq.texas.gov/goto/cid. Busque en la base de datos el número de permiso de esta solicitud, que se encuentra en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes del público deben enviarse electrónicamente a través de www.tceq.texas.gov/goto/comment o por escrito a la Comisión de Calidad Ambiental de Texas, Oficina del Secretario Principal, MC 105, Apartado Postal 13087, Austin, Texas 78711-3087. Toda información personal que proporcione a la TCEQ formará parte del registro de la agencia, incluidas las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de obtención de permisos, llame al Programa de Educación Pública de la TCEQ, sin costo, al 1-800-687-4040 o visite su sitio web: www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener más información de US Trinity Smithwick, LLC en la dirección indicada anteriormente o llamando a la Sra. Lauren Crone, P.E., LJA Engineering, al (512) 439-4700.

Fecha de emission 1 de diciembre de 2025

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

FOR

SMITHWICK TRACT WASTEWATER TREATMENT PLANT

JUNE 2024

**PREPARED FOR
US TRINITY SMITHWICK LLC
200 HIGHLAND CIRCLE
Argyle, TX 76226
(940) 240- 5800**

PREPARED BY

**LJA Engineering, Inc.
7500 RIALTO BLVD
BUILDING II, SUITE 100
Austin, Texas 78735
(512) 439-4700**



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EXHIBIT 1

ADMINISTRATIVE REPORTS 1.0 AND 1.1



APPLICANT: US Trinity Smithwick, LLC

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

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**APPLICATION FOR A DOMESTIC WASTEWATER PERMIT
ADMINISTRATIVE REPORT 1.0**

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input checked="" type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number:
Check/Money Order Amount:
Name Printed on Check:
EPAY Voucher Number: 710776, 710777
Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input type="checkbox"/> New TPDES | <input checked="" type="checkbox"/> New TLAP |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes | <input type="checkbox"/> Minor Modification of permit |

For amendments or modifications, describe the proposed changes: N/A - New Permit

For existing permits:

Permit Number: WQ00
EPA I.D. (TPDES only): TX
Expiration Date:

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

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

Transaction Information

Trace Number:

582EA000615370

Date:

06/25/2024 10:53 AM

Payment Method:

CC - Authorization 0000025525

ePay Actor:

LAUREN CRONE

Actor Email:

lcrone@lja.com

IP:

170.55.94.226

TCEQ Amount:

\$850.00

Texas.gov Price:

\$869.38*

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

Payment Contact Information

Name:

STEPHEN D MILLER

Company:

LJA ENGINEERING INC

Address:

7500 RIALTO BOULEVARD BUILDING, AUSTIN, TX 78735

Phone:

512-439-4700

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
710776	WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - NEW AND MAJOR AMENDMENTS		\$800.00
710777	30 TAC 305.53B WQ NOTIFICATION FEE		\$50.00
TCEQ Amount:			\$850.00

ePay AgainExit ePay

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

Section 3. Facility Owner (Applicant) and Co-Applciant Information (Instructions Page 29)

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

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

US Trinity Smithwick, LLC

(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:

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., Ms., Miss): Mr.

First and Last Name: James Haltom

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

Title: Owner

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

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

(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-applciant 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:

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., Ms., Miss):

First and Last Name:

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

Title:

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

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: Appendix A

Section 4. Application Contact Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd., Building II, Suite 100

City, State, Zip Code: Austin, Texas, 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: lcrone@lja.com

Check one or both: ☒ Administrative Contact

☒ Technical Contact

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

First and Last Name: Daniel Ryan

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

Title: Senior Vice President

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd, Bldg II Suite 100

City, State, Zip Code: Austin, Texas 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: dryan@lja.com

Check one or both: ☐ Administrative Contact

☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: smithwick@ustrinity.com

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc.

Mailing Address: 7500 Rialto Boulevard, Building II, Suite 100

City, State, Zip Code: Austin, Texas 78735

Phone No.: 512-439-4737 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: [REDACTED]

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: smithwick@ustrinity.com

Section 7. DMR/MER Contact Information (Instructions Page 31)

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

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.:

Fax No.:

E-mail Address: smithwick@ustrinity.com

DMR data is required to be submitted electronically. Create an account at:

<https://www.tceq.texas.gov/permitting/netdmr/netdmr.html>.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd., Building II, Suite 100

City, State, Zip Code: Austin, Texas, 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: lcrone@lja.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Phone No.: 512-439-4700 Ext.:

E-mail: lcrone@lja.com

D. Public Viewing Information

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

Public building name: Marble Falls City Hall

Location within the building: Public Notices Board

Physical Address of Building: 800 3rd St

City: Marble Falls, TX 78654 County: Burnet

Contact Name: Erin Burks

Phone No.: (830) 693-3615 Ext.:

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. 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: Appendix B

**Section 9. Regulated Entity and Permitted Site Information (Instructions
Page 33)**

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

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):**

Smithwick Tract Wastewater Treatment Plant

- C. Owner of treatment facility: US Trinity Smithwick, LLC

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

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

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

First and Last Name: James Haltom

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 76226

Phone No.: 940-240-5800

E-mail Address: smithwick@ustrinity.com

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

Attachment:

- E. Owner of effluent disposal site:

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

First and Last Name: James Haltom

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 76226

Phone No.: 940-240-5800

E-mail Address: smithwick@ustrinity.com

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

Attachment:

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

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

First and Last Name:

Mailing Address:

City, State, Zip Code:

Phone No.: E-mail Address:

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

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 34)

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:

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:

City nearest the outfall(s):

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

Outfall Latitude: Longitude:

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:

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.

Section 11. TLAP Disposal Information (Instructions Page 36)

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:

New TLAP: The disposal site is located alongside the Central and Eastern portions of the property. The proposed disposal area encompasses approximately 70.2 acres. The center of the disposal sites is located at 30.542454, -98.146709.

B. City nearest the disposal site: Marble Falls, TX

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

D. Disposal Site Latitude: 30.542454 Longitude: -98.146709

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

The effluent will flow from the treatment facility to an effluent storage pond. The effluent will then be pumped from the pond to the effluent disposal area for spray irrigation within the disposal areas.

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

Post Creek

Section 12. Miscellaneous Information (Instructions Page 37)

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.

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:

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 38)

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: Appendix A - Core Data Form; Appendix B - Public Involvement Plan Form; Appendix C - USGS Maps; Appendix D - Affected Landowners Map; Appendix E - Original Photographs; Appendix F - Buffer Zone Map; Appendix G -Process Flow Diagrams; Appendix H - Site Drawing; Appendix I - Sludge Disposal Site Letter; Appendix J - Design Calculations; Appendix K - FEMA Flood Maps and wind Rose; Appendix L - Sewage Solids Management Plan; Appendix M - Pond Liner Certification; Appendix N - Annual cropping Plan, Appendix O - USGS Well Map and well information, Appendix P- USDA Soil Survey Map and Soil Analyses, Appendix Q- Engineering Report with Water Balance and Storage Volume calculations, Appendix S - Regionalization

Section 14. Signature Page (Instructions Page 39)

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

Permit Number:

Applicant: US Trinity Smithwick, LLC

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): James Haltom

Signatory title: Owner

Signature: _____

(Use blue ink)

Date: _____

5/28/2024

Subscribed and Sworn to before me by the said James Haltom

on this 28th day of May, 2024.

My commission expires on the 8th day of August, 2026.

Debra J. Habern
Notary Public



Denton
County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

US Trinity Smithwick, LLC (CN606185817) proposes to operate US Trinity Wastewater Treatment Plant (RN111999264), a 0.18 MGD WWTP facility. The facility will be located Approximately 0.25 miles Southeast from the intersection of County Road 344 and Farm to Market 1431 Business, in Smithwick, TX, Burnet County, Texas 78654.

This is for a new application to discharge processed wastewater at an average daily flow of 180,000 gallons per day on an intermittent and flow-variable basis.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia Coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Domestic wastewater will be treated by a suspended growth activated sludge process in extended aeration mode and the treatment units will include a mechanical auger screen, equalization basin, aeration tanks, membrane bioreactor trains, a chlorine contact chamber and a dechlorination chamber. Discharge will be pumped into an effluent pond. Discharge from the facility is not anticipated to cause any adverse impacts to any receiving waters downstream or adjacent property owners. Phases 1, 2, 3 will each treat 60,000gpd each. The WWTP will treat 180,000gpd at full build-out. The influent will enter the plant via a lift station into a primary clarifier. The treatment units include an influent screening system, aeration basin, clarifier, chlorine contact basin and an aerobic digester. Wastewater will be pumped by an influent lift station into the plant where it will enter through a screen. The influent will then pass through the aeration zone and flow into a clarifier. From the clarifier, the effluent will flow to a chlorine contact basin for disinfection prior to tertiary filtration. From there the effluent will then be routed via pipe to an effluent storage pond, then routed to the effluent disposal area for spray disposal within the disposal site boundaries. This facility will also utilize a digester for sludge holding and reduction of solids prior to haul off.

PLANTILLA EN INGLÉS PARA SOLICITUDES DE NUEVA/RENOVACIÓN/ENMIENDA TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS

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

US Trinity Smithwick, LLC (CN606185817) propone operar la Planta de Tratamiento de Aguas Residuales Trinity de EE.UU. RN111999264. una instalación PTAR de 0.18 MGD. La instalación estará ubicada aproximadamente a 0,25 millas al sureste de la intersección de County Road 344 y Farm to Market 1431 Business, en Smithwick, TX, condado de Burnet, Texas 78654.

Esto es para una nueva aplicación para descargar aguas residuales procesadas a un flujo diario promedio de 180,000 galones por día de forma intermitente y de flujo variable.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD₅) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH₃-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados de crecimiento suspendido en modo de aireación extendida y las unidades de tratamiento incluirán una criba de tornillo mecánico, un estanque de ecualización, tanques de aireación y un biorreactor de membrana. trenes, una cámara de contacto de cloro y una cámara de decloración. La descarga se bombeará a un estanque de efluentes. No se prevé que la descarga de la instalación cause ningún impacto adverso a las aguas receptoras aguas abajo o a los propietarios de propiedades adyacentes. Las fases 1, 2 y 3 tratarán cada una 60.000 gpd. La instalación tratará 180.000 gpd en plena construcción. El afluente ingresará a la planta a través de una estación de bombeo hacia un clarificador primario. Las unidades de tratamiento incluyen un sistema de cribado de afluentes, balsa de aireación, clarificador, balsa de contacto de cloro y un digestor aeróbico. Las aguas residuales se bombearán a la planta donde ingresarán a través de una rejilla. Luego, el afluente pasará por la zona de aireación y fluirá hacia un clarificador. Desde el clarificador, el efluente fluirá a una cubeta de contacto con cloro para su desinfección antes de la filtración terciaria. Desde allí el efluente será conducido a un estanque de almacenamiento de efluentes. Luego, el efluente se eliminará mediante riego por aspersión. Esta instalación también utilizará un digestor para retener lodos y reducir los sólidos antes del transporte.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☒ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☒ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Burnet County Central Appraisal District
- 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):

Section 2. Original Photographs (Instructions Page 44)

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 44)

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

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) <i>(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)</i>	<input checked="" type="checkbox"/>		Yes
Correct and Current Industrial Wastewater Permit Application Forms <i>(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)</i>	<input checked="" type="checkbox"/>		Yes
Water Quality Permit Payment Submittal Form (Page 19) <i>(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)</i>	<input checked="" type="checkbox"/>		Yes
7.5 Minute USGS Quadrangle Topographic Map Attached <i>(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)</i>	<input checked="" type="checkbox"/>		Yes
Current/Non-Expired, Executed Lease Agreement or Easement Attached	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Landowners Map <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes

Things to Know:

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

Landowners Cross Reference List <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Landowners Labels or USB Drive attached <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred <i>(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)</i>	<input checked="" type="checkbox"/>		Yes

EXHIBIT 2

**DOMESTIC TECHNICAL REPORT 1.0
DOMESTIC TECHNICAL REPORT 1.1
DOMESTIC TECHNICAL REPORT 3.0
DOMESTIC TECHNICAL REPORT 3.1**



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

**The Following Is Required For All Applications
Renewal, New, And Amendment**

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 0.06

2-Hr Peak Flow (MGD): 0.18

Estimated construction start date: 9/1/25

Estimated waste disposal start date: 9/1/26

B. Interim II Phase

Design Flow (MGD): 0.120

2-Hr Peak Flow (MGD): 0.36

Estimated construction start date: 9/1/27

Estimated waste disposal start date: 9/1/28

C. Final Phase

Design Flow (MGD): 0.180

2-Hr Peak Flow (MGD): 0.54

Estimated construction start date: 9/1/29

Estimated waste disposal start date: 9/1/30

D. Current operating phase: N/A – New Facility

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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 in the permit, a description of each phase must be provided.** Process description:

The facility is to be constructed in three phases. Phases I, II, III will treat 60,000 gpd each, totaling 180,000 gpd. The treatment units include an influent screening system, aeration basin, clarifier, chlorine contact basin and an aerobic digester. Wastewater will be pumped by an influent lift station into the plant where it will enter through a screen. The influent will then pass through the aeration zone and flow into a clarifier. From the clarifier, the effluent will flow to a chlorine contact basin for disinfection prior to tertiary filtration. From there the effluent will then be routed via pipe to an effluent storage pond, then routed to the effluent disposal area for spray disposal within the disposal site boundaries. This facility will also utilize a digester for sludge holding and reduction of solids prior to haul off.

Port or pipe diameter at the discharge point, in inches: 8" (to pond)

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)
Clarifier	3 (1 per phase)	Phase 1: 18.5' DIA x 10' D Phase 2: 18.5' DIA x 10' D Phase 3: 18.5' DIA x 10' D
Aeration Basin	3 (1 per phase)	Phase 1: 68'L x 40'W x 10'D Phase 2: 68'L x 40'W x 10'D Phase 3: 68'L x 40'W x 10'D
Aerobic Digester	3 (1 per phase)	Phase 1: 40'L x 20'W x 10'D Phase 2: 40'L x 20'W x 10'D Phase 3: 40'L x 20'W x 10'D
Chlorine Contact Chamber	3 (1 per phase)	Phase 1: 9'L x 5'W x 10'D Phase 2: 9'L x 5'W x 10'D Phase 3: 9'L x 5'W x 10'D

C. Process flow diagrams

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

Attachment: Appendix G

Section 3. Site Drawing (Instructions Page 52)

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: Appendix H

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

SMITHWICK TRACT WWTP: A residential development composed of single-family lots and recreational areas on approximately 1400 acres. The property is in Smithwick, TX in Burnet County.

Section 4. Unbuilt Phases (Instructions Page 52)

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.

Section 5. Closure Plans (Instructions Page 53)

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.

Section 6. Permit Specific Requirements (Instructions Page 53)

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:

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.

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.

A 150' buffer zone is proposed around the treatment plant.

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*.

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.

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 512-239-0000. 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.

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 512-239-0000.

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

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 or TXRNE

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:

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.

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.

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.

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, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

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

Yes ☐ No ☒

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

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

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

--

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 the facility accepting or will it 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.

--

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

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).

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Corix Utilities (Texas) Inc.

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

Facility Operator's License Number: OC0000183

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- ☐ Permitted landfill
- ☐ Permitted or Registered land application site for beneficial use

- ☐ Land application for beneficial use authorized in the wastewater permit
- ☐ Permitted sludge processing facility
- ☐ Marketing and distribution as authorized in the wastewater permit
- ☐ Composting as authorized in the wastewater permit
- ☐ Permitted surface disposal site (sludge monofill)
- ☐ Surface disposal site (sludge monofill) authorized in the wastewater permit
- ☒ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- ☐ Other:

B. Sludge disposal site

Disposal site name:

TCEQ permit or registration number:

County where disposal site is located:

C. Sludge transportation method

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

Name of the hauler: WWTS-Wastewater Transport Services

Hauler registration number:

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

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

Sludge Composting Yes ☐ No ☒

Marketing and Distribution of sludge Yes ☐ No ☒

Sludge Surface Disposal or Sludge Monofill Yes ☐ No ☒

Temporary storage in sludge lagoons Yes ☐ No ☒

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

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:

- USDA Natural Resources Conservation Service Soil Map:

Attachment:

- Federal Emergency Management Map:

Attachment:

- Site map:

Attachment:

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:

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:

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:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

C. Liner information

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

Yes ☐ No ☐

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

D. Site development plan

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

Attach the following documents to the application.

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

Attachment: [\[Click here to enter text\]](#)

- Copy of the closure plan

Attachment: [\[Click here to enter text\]](#)

- Copy of deed recordation for the site

Attachment: [\[Click here to enter text\]](#)

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

Attachment: [\[Click here to enter text\]](#)

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

Attachment: [\[Click here to enter text\]](#)

- Procedures to prevent the occurrence of nuisance conditions

Attachment: [\[Click here to enter text\]](#)

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: [\[Click here to enter text\]](#)

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

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:

[Click here to enter text]
--

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:

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

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:

Section 14. Laboratory Accreditation (Instructions Page 64)

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:

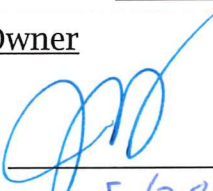
I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: James Haltom

Title: Owner

Signature: _____

Date: _____


5/28/24

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

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.

The wastewater treatment plant will serve the proposed residential development. Based on easement and right-of-way limitations, no route exists from this site to an organized wastewater treatment facility. The use of a central collection treatment and disposal system is being preferred to an equivalent number of private residential septic tank/drain field units. Design flows are based on Living Unit Equivalents (LUEs) or connections associated with the service area. A basis of 245 gallons of wastewater per day per connection (maximum 30-day wet weather average) was assumed for flow projections. The total flow needed at full build would be 734 equivalent connections x 245 gal/day/connection = 179,830 gal/day assumed.

B. Regionalization of facilities

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:

If yes, attach correspondence from the city.

Attachment:

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:

2. Utility CCN areas

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

Yes ☐ No ☒

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:

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 that includes the permittee's name and permit number, and an area map showing the location of these facilities.

Attachment:

If yes, attach copies of your certified letters to these facilities **and** their response letters concerning connection with their system.

Attachment:

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes ☐ No ☐

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment:

Section 2. Organic Loading (Instructions Page 67)

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): [REDACTED]

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [REDACTED]

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [REDACTED]

Provide the source of the average organic strength or BOD₅ concentration.

[REDACTED]

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 BOD ₅ Concentration (mg/l)
Municipality		
Subdivision	0.180	400
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.180	400
AVERAGE BOD ₅ from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

- ☒ Chlorine: 1 mg/l after 20 minutes detention time at peak flow
Dechlorination process: Chlorine Contact Basin
- ☐ Ultraviolet Light: seconds contact time at peak flow
- ☐ Other:

Section 4. Design Calculations (Instructions Page 68)

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

Attachment: Appendix J

Section 5. Facility Site (Instructions Page 68)

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.

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

FEMA MAP: 48053C0620G (APPENDIX K)

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:

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

B. Wind rose

Attach a wind rose. **Attachment:** Appendix K

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

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)

Attachment:

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 a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment:

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: Appendix L

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 WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications
Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Surface application | <input type="checkbox"/> Subsurface application |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Subsurface soils absorption |
| <input type="checkbox"/> Drip irrigation system | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation | |
| <input type="checkbox"/> Evapotranspiration beds | |
| <input type="checkbox"/> Other (describe in detail): | |

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

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

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
Turf Grass, Golf course	70.2	180,000	Y

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	2.6	73.55	452 ft x 374 ft	Synthetic

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

Attachment: Attachment M

Section 4. Flood and Runoff Protection (Instructions Page 77)

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.

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

FEMA Map 48053C0620G

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

Karst/Critical environmental features will be excluded from the irrigation areas by buffering based on TCEQ criteria. In addition, earthen berms will be provided to divert flows from the buffers. No irrigation across drainage ways or concentrated flow areas is proposed.

Section 5. Annual Cropping Plan (Instructions Page 77)

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: APPENDIX N

- 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 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: APPENDIX O

- 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 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 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
SEE ATTACHED	--	---	Choose an item.	----
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: APPENDIX O

Section 7. Groundwater Quality (Instructions Page 79)

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: APPENDIX P

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

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

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

Attachment: APPENDIX P

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: N/A, importing soil

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
Purves Clay (PRC)	0-16"	1.98 mm/s	0.14	D
Luckenbach clay Loam (LCL)	0-80"	4.03 mm/s	0.16	C
Heaton Loamy Fine Sand (HLFS)	0-80"	31.76 mm/s	0.12	B
Lewisville clay Loam (LVCL)	0-80"	2.7 mm/s	0.16	C

Section 9. Effluent Monitoring Data (Instructions Page 80)

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	BOD ₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications.

Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

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

A. Irrigation

Area under irrigation, in acres: 70.2

Design application frequency:

hours/day 12 And days/week 7

Land grade (slope):

average percent (%): 5.0

maximum percent (%): 12.0

Design application rate in acre-feet/acre/year: 3.0

Design total nitrogen loading rate, in lbs N/acre/year: 65

Soil conductivity (mmhos/cm): 0.55

Method of application: Spray Irrigation

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

Attachment: Appendix Q

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: 180,000

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

Attachment: Appendix Q

C. Evapotranspiration beds

Number of beds: N/A

Area of bed(s), in acres:

Depth of bed(s), in feet:

Void ratio of soil in the beds:

Storage volume within the beds, in acre-feet:

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

Attachment:

D. Overland flow

Area used for application, in acres: N/A

Slopes for application area, percent (%):

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

Slope length, in feet:

Design BOD₅ loading rate, in lbs BOD₅/acre/day:

Design application frequency:

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

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

Attachment:

Section 2. Edwards Aquifer (Instructions Page 82)

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

Yes ☐ No ☒

If yes, attach a report concerning the recharge zone.

Attachment:

APPENDIX A
CORE DATA FORM



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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> 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)
CN606185817		RN111999264

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
US TRINITY SMITHWICK, LLC					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0804344331		32082224026			
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input checked="" type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		200 Highland Circle			
City		Argyle		State	TX
ZIP		76226		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				smithwick@ustrinity.com	
18. Telephone Number			19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Smithwick Tract Wastewater Treatment Plant								
23. Street Address of the Regulated Entity: (No PO Boxes)								
		City	Marble Falls	State	TX	ZIP	78654	ZIP + 4
24. County		Burnet						

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

25. Description to Physical Location:		New TLAP: The facility is located 0.25 miles Southeast of the intersection of Country Road 344 and Old RN 1431 in Burnet County, TX.							
26. Nearest City					State		Nearest ZIP Code		
Marble Falls					TX		78654		
<i>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).</i>									
27. Latitude (N) In Decimal:			30.553725			28. Longitude (W) In Decimal:			-98.152864
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
30	33	13.4	98	09	10.3				
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4952				221320					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
Wastewater Treatment									
34. Mailing Address:		200 Highland Circle							
		City	Argyle	State	TX	ZIP	76226	ZIP + 4	
35. E-Mail Address:		smithwick@ustrinity.com							
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)			
(940) 240-5800						() -			

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.

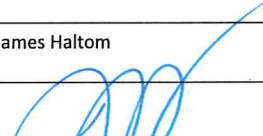
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Lauren Crone, P.E.	41. Title:	Senior Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 439-4700		() -	lcrone@lja.com

SECTION V: Authorized Signature

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

Company:	US Trinity Smithwick, LLD	Job Title:	Owner
Name (In Print):	James Haltom	Phone:	(940) 240- 5800
Signature:		Date:	5/28/24

APPENDIX B:
PUBLIC INVOLVEMENT PLAN FORM



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

New Permit or Registration Application

New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

Air Initial Federal Amendment Standard Permit Title V
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire
Radioactive Material Licensing Underground Injection Control

Water Quality

Texas Pollutant Discharge Elimination System (TPDES)
Texas Land Application Permit (TLAP)
State Only Concentrated Animal Feeding Operation (CAFO)
Water Treatment Plant Residuals Disposal Permit
Class B Biosolids Land Application Permit
Domestic Septage Land Application Registration

Water Rights New Permit

New Appropriation of Water
New or existing reservoir

Amendment to an Existing Water Right

Add a New Appropriation of Water
Add a New or Existing Reservoir
Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

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

City

County

Census Tract

- (a) Percent of people over 25 years of age who at least graduated from high school
- (b) Per capita income for population near the specified location
- (c) Percent of minority population and percent of population by race within the specified location
- (d) Percent of Linguistically Isolated Households by language within the specified location
- (e) Languages commonly spoken in area by percentage
- (f) Community and/or Stakeholder Groups
- (g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

Yes No

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

Yes No

If Yes, please describe.

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

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

Yes No

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

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

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

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

Yes No

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

Yes No

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

TCEQ Regional Office

TCEQ Central Office

Public Place (specify)

Section 7. Voluntary Submittal

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

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

Yes No

What types of notice will be provided?

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

APPENDIX C

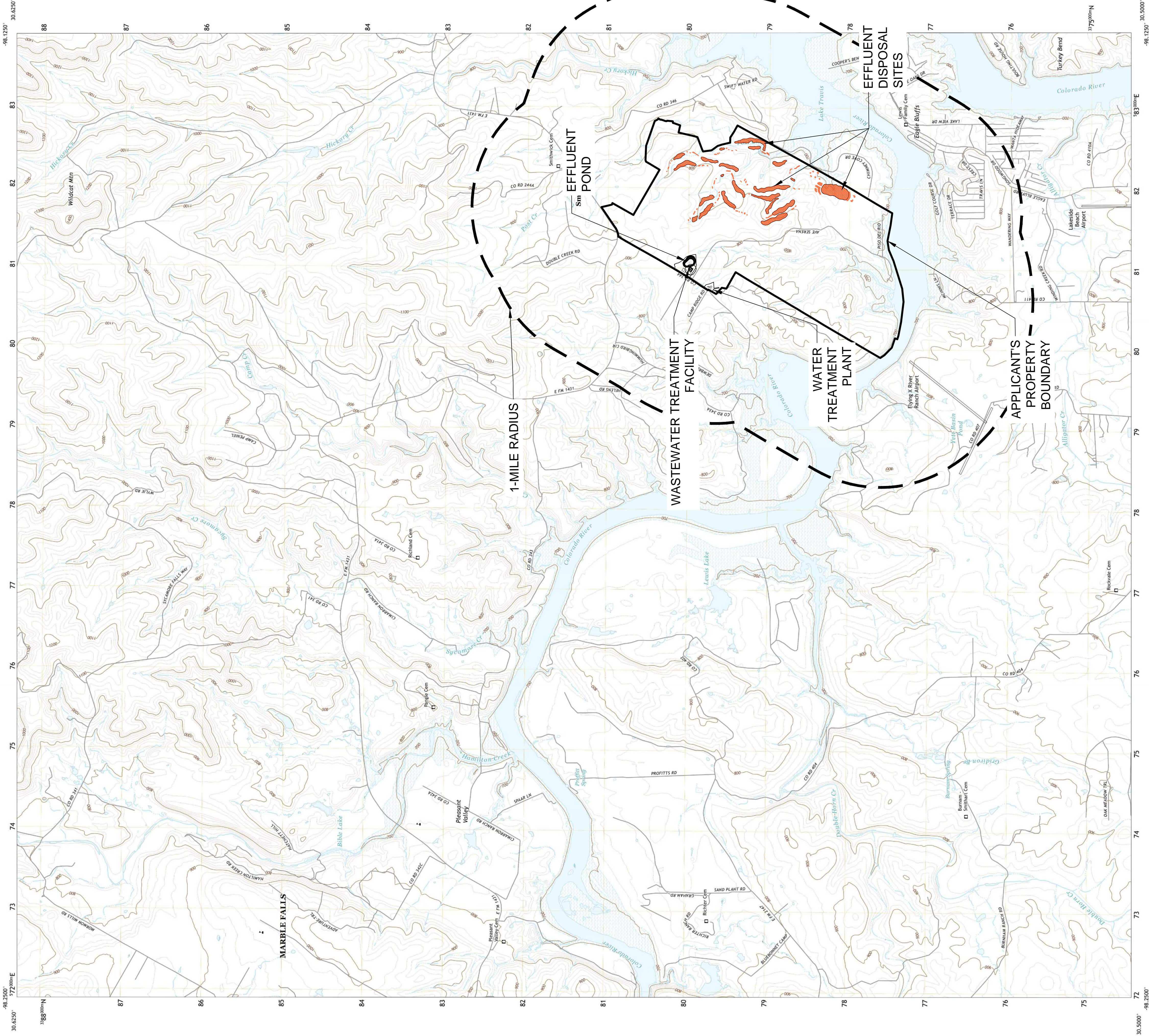
USGS MAPS



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

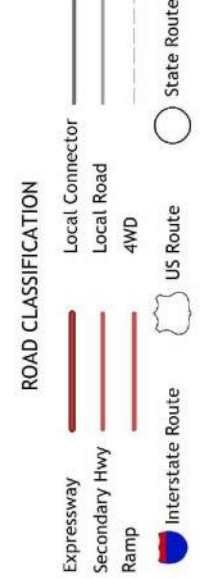
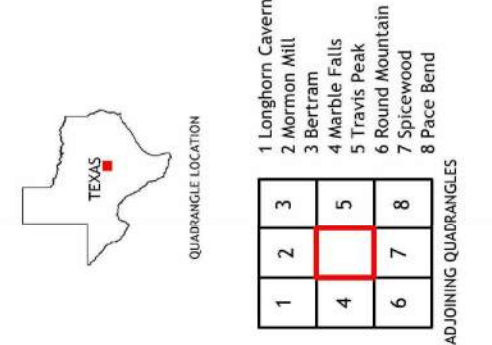
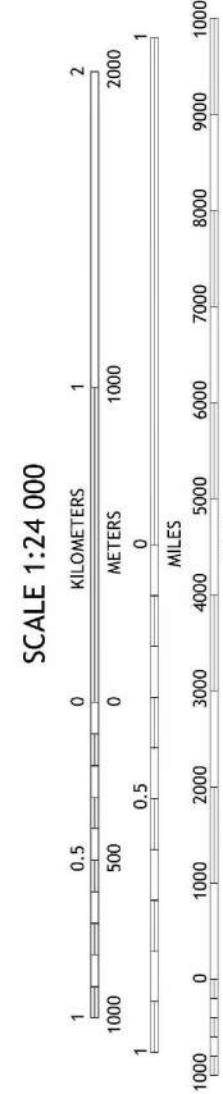


SMITHWICK QUADRANGLE
TEXAS - BURNET COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
This map is not a legal document. Boundaries may be
1:000-meter grid intervals. This map is for informational purposes only.
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1:000-meter grid intervals. This map is for informational purposes only.

UTM 18Q UTM AND 2014 MONITORING DATA
RECALCULATED AT CENTER OF AREA
UTM 18Q UTM AND 2014 MONITORING DATA
RECALCULATED AT CENTER OF AREA



SMITHWICK, TX
2022

LJA Engineering, Inc.
7500 Rialto Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

SMITHWICK TRACT WWTP
BURNET COUNTY, TX

USGS MAP
SMITHWICK, TX



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



TRAVIS PEAK QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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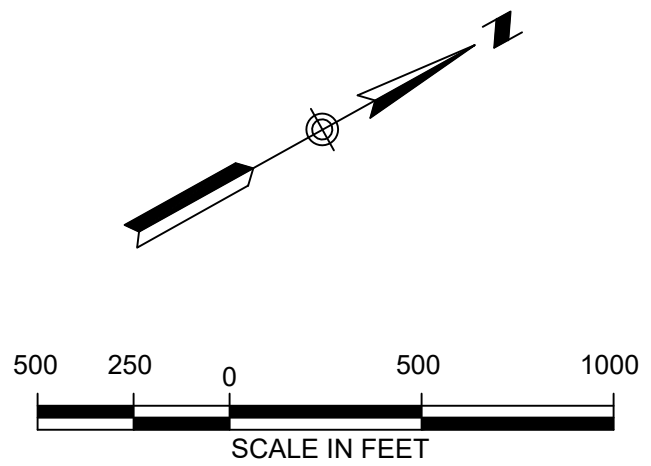
USGS MAP
TRAVIS PEAK, TX

APPENDIX D
AFFECTED LANDOWNERS MAP AND LIST

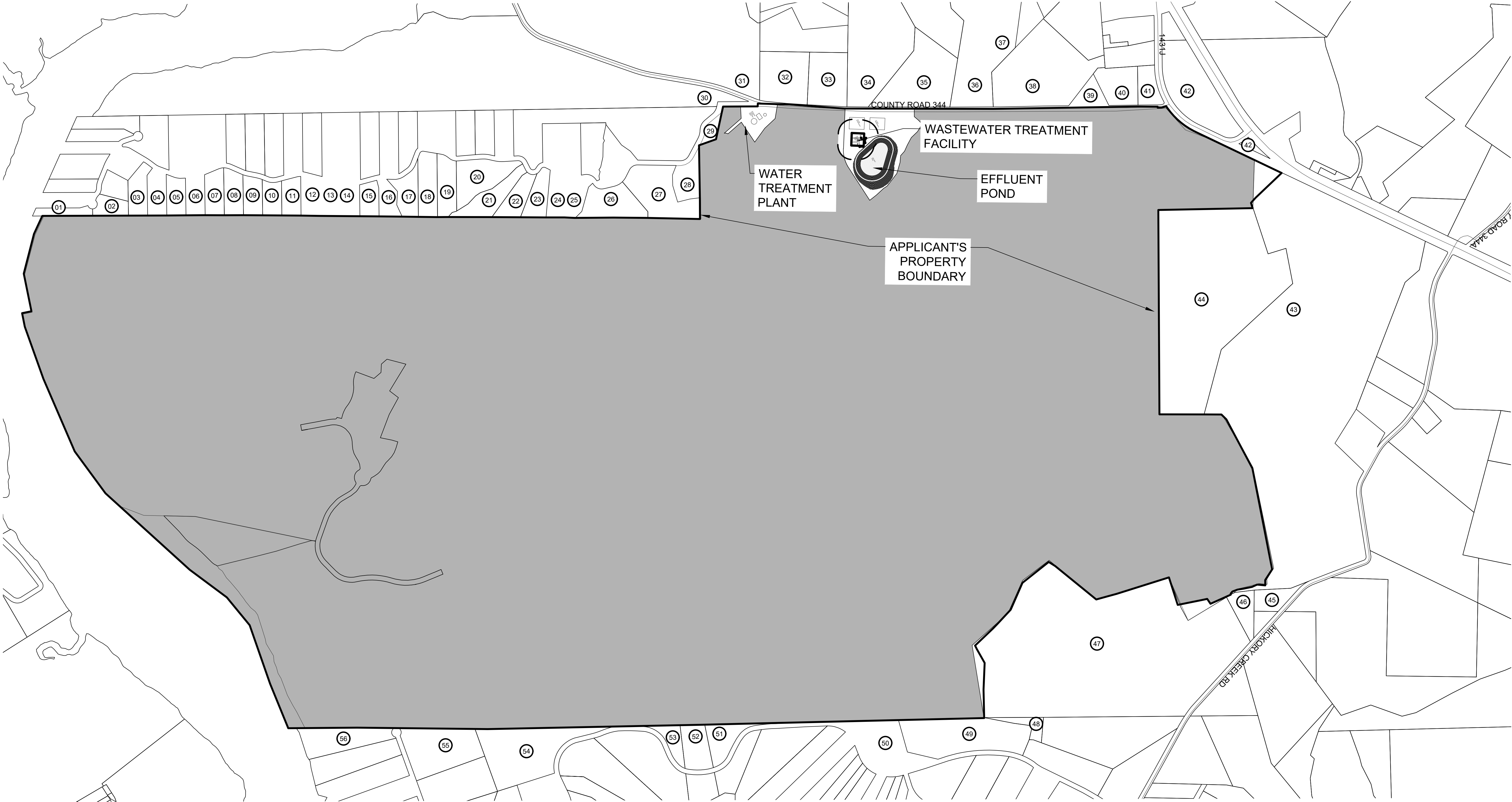
NO.	I.D.	NAME	ADDRESS
01	NA	NA	NA
02	45066	HOLLOWAY DORIS J IRRECOVABLE TRUST	351 PASEO DEL RIO, MARBLE FALLS, TX 78654
03	45063	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES	1751 AVENIDA SERENA, MARBLE FALLS, TX 78654
04	45062	FERRI ROBERT & KATHLEEN	1701 AVENIDA SERENA, MARBLE FALLS, TX 78654
05	45061	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO	1651 AVENIDA SERENA, MARBLE FALLS, TX 78654
06	45060	DAVIS JAMES A	1601 AVENIDA SERENA, MARBLE FALLS, TX 78654
07	45059	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
08	45058	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
09	45057	MCCABE CAMERON M & KATHRYN B	1451 AVENIDA SERENA, MARBLE FALLS, TX 78654
10	45056	WATTS FAMILY TRUST	4241 VERMONT ST, LONG BEACH, CA 90814
11	45055	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
12	45054	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
13	45053	OTIS PAUL L ETUX FRANKIE V	1251 AVENIDA SERENA, MARBLE FALLS, TX 78654
14	45052	SUNDHARAJAN SRINIVASAN	4708 CAP ROCK DRIVE APT# 3208, AUSTIN, TX 78735
15	45051	WILLIAMS JARRETT D & WINDY W	1151 AVENIDA SERENA, MARBLE FALLS, TX 78654
16	45050	HANNA MALI COUGHLIN	1101 AVENIDA SERENA, MARBLE FALLS, TX 78654
17	45049	BARRINEAU CLARK GARRETT & JENA MARIE	1051 AVENIDA SERENA, MARBLE FALLS, TX 78654
18	45048	DOYE ROBERT & BOBBIE 2005 LIVING TRUST	1001 AVENIDA SERENA, MARBLE FALLS, TX 78654
19	45047	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
20	45046	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
21	45044	NA	NA
22	45043	RISHAVY JENNIFER & DANIEL P	PO BOX 296 MARBLE FALLS, TX 78654
23	45042	ERLING LARRY ETUX EDNA	751 AVENIDA SERENA, MARBLE FALLS, TX 78654
24	45041	PHILLIPS MICHAEL E & CECILIA	701 AVENIDA SERENA, MARBLE FALLS, TX 78654
25	45040	COLLIER DEAN & ARACELI MALDONADO	651 AVENIDA SERENA, MARBLE FALLS, TX 78654
26	45038	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES	236 GRAYHAWK, SPRING RANCH, TX 78070
27	NA	NA	NA
28	45037	BRUNK WILLIAM N & JANA ADAMS	351 AVENIDA SERENA, MARBLE FALLS, TX 78654

NO.	I.D.	NAME	ADDRESS
29	NA	NA	NA
30	55449	JOSEPH LAND & CATTLE CO LTD	2904 RICHARD LN, AUSTIN, TX 78703
31	55448	IMPACT CHRISTIAN YOUTH CAMP INC	1552 CR 344, MARBLE FALLS, TX 78654
32	55440	HANK & JANET LEWIS REAL ESTATE HOLDINGS LLC	PO BOX 217, MARBLE FALLS, TX 78654
33	69147	BRYANT ELSA BARDELOZA MANAGEMENT TRUST	506 CR 344, MARBLE FALLS, TX 78654
34	55442	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
35	55443	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
36	106393	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
37	83445	BAKER KENNETH L & SHIRLEY K	PO BOX 514, CROSS PLAINS, TX 76443
38	55451	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
39	55452	HISEY TONNA	110 CR 344, MARBLE FALLS, TX 78654
40	55461	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
41	55456	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
42	72305	NA	NA
43	72306	RENFRO MANAGEMENT TRUST	PO BOX 5529, LAGO VISTA, TX 78645
44	50306	HUDDLESTON J B & SUE C LIVING TRUST	10711 E FM 1431, MARBLE FALLS, TX 78654
45	53142	FRANKI BO & BONNIE	13711 E FM 1431, MARBLE FALLS, TX 78654
46	NA	NA	NA
47	56440	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR, RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE, WACO, TX 76712
52	9667	GALFAND WENDRA J	2750 GLIDER ST APT 203, FORT BRAGG, NC 28307
53	9665	PETERSON STEVEN GLENN & VIRNA ALEJANDRA VILLAGOMEZ	12291 CHIANTI DR, ROSSMOOR, CA 90720
54	9697	GRIFFITH JEFFREY & JULISSA	394 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
55	9702	PARKER JERRY L & SYLVIA I	570 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR, MARBLE FALLS, TX 78654

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36	106393	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
37	83445	BAKER KENNETH L & SHIRLEY K	PO BOX 514, CROSS PLAINS, TX 76443
38	55451	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
39	55452	HISEY TONNA	110 CR 344, MARBLE FALLS, TX 78654
40	55461	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
41	55456	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
42	72305	NA	NA
43	72306	RENFRO MANAGEMENT TRUST	PO BOX 5529, LAGO VISTA, TX 78645
44	50306	HUDDLESTON J B & SUE C LIVING TRUST	10711 E FM 1431, MARBLE FALLS, TX 78654
45	53142	FRANKI BO & BONNIE	13711 E FM 1431, MARBLE FALLS, TX 78654
46	NA	NA	NA
47	56440	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR, RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE, WACO, TX 76712
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56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR, MARBLE FALLS, TX 78654



43 ADJACENT PROPERTY OWNER



AFFECTED LANDOWNERS MAP

SMITHWICK TRACT WWTP
BURNET COUNTY, TX

LJA
Engineering, Inc.
7500 Riato Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

Map Number	Property ID Number	Landowner Name	Landowner Address (1)	Landowner Address (2)
1	N/A	N/A		
2	45066	HOLLOWAY DORIS J IRRECOVABLE TRUST	351 PASEO DEL RIO	MARBLE FALLS, TX 78654
3	45063	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES	1751 AVENIDA SERENA	MARBLE FALLS, TX 78654
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7	45059	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA	MARBLE FALLS, TX 78654
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26	45038	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES	236 GRAYHAWK	SPRING RANCH, TX 78070
27	N/A	N/A		
28	45037	BRUNK WILLIAM N & JANA ADAMS	351 AVENIDA SERENA	MARBLE FALLS, TX 78654
29	NA	N/A		
30	55449	JOSEPH LAND & CATTLE CO LTD	2904 RICHARD LN	AUSTIN, TX 78703
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46	N/A	N/A		
47	56440	PRUETT LEE T	PO BOX 4670	HORSESHOEBAY, TX 78657
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51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE	WACO, TX 76712
52	9667	GALFAND WENDRA J	2750 GLIDER ST APT 203	FORT BRAGG, NC 28307
53	9665	PETERSON STEVEN GLENN & VIRNA ALEJANDRA VILLAGOMEZ	12291 CHIANTI DR	ROSSMOOR, CA 90720
54	9697	GRIFFITH JEFFREY & JULISSA	394 CHIMNEY COVE DR	MARBLE FALLS, TX 78654
55	9702	PARKER JERRY L & SYLVIA I	570 CHIMNEY COVE DR	MARBLE FALLS, TX 78654
56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR	MARBLE FALLS, TX 78654

N/A	HOLLOWAY DORIS J IRRECOVABLE TRUST 351 PASEO DEL RIO MARBLE FALLS, TX 78654	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES 1751 AVENIDA SERENA MARBLE FALLS, TX 78654
FERRI ROBERT & KATHLEEN 1701 AVENIDA SERENA MARBLE FALLS, TX 78654	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO 1651 AVENIDA SERENA MARBLE FALLS, TX 78654	DAVIS JAMES A 1601 AVENIDA SERENA MARBLE FALLS, TX 78654
SPROUL ROB & KRISTINE 1501 AVENIDA SERENA MARBLE FALLS, TX 78654	SPROUL ROB & KRISTINE 1501 AVENIDA SERENA MARBLE FALLS, TX 78654	MCCABE CAMERON M & KATHRYN B 1451 AVENIDA SERENA MARBLE FALLS, TX 78654
WATTS FAMILY TRUST 4241 VERMONT ST LONG BEACH, CA 90814	MITCHELL PHILLIP L & DIANE 1301 AVENIDA SERENA MARBLE FALLS, TX 78654	MITCHELL PHILLIP L & DIANE 1301 AVENIDA SERENA MARBLE FALLS, TX 78654
OTIS PAUL L ETUX FRANKIE V 1251 AVENIDA SERENA MARBLE FALLS, TX 78654	SUNDHARARAJAN SRINIVASAN 4708 CAP ROCK DRIVE APT# 3208 AUSTIN, TX 78735	WILLIAMS JARRETT D & WINDY W 1151 AVENIDA SERENA MARBLE FALLS, TX 78654
HANNA MALI COUGHLIN 1101 AVENIDA SERENA MARBLE FALLS, TX 78654	BARRINEAU CLARK GARRETT & JENA MARIE 1051 AVENIDA SERENA MARBLE FALLS, TX 78654	DOYE ROBERT & BOBBIE 2005 LIVING TRUST 1001 AVENIDA SERENA MARBLE FALLS, TX 78654
TAYLOR SUSAN DOYLE 1955 ANTIOCH RD SHELBYVILLE, KY 40065	TAYLOR SUSAN DOYLE 1955 ANTIOCH RD SHELBYVILLE, KY 40065	N/A
RISHAVY JENNIFER & DANIEL P PO BOX 296 MARBLE FALLS, TX 78654	ERLING LARRY ETUX EDNA 751 AVENIDA SERENA MARBLE FALLS, TX 78654	PHILLIPS MICHAEL E & CECILIA 701 AVENIDA SERENA MARBLE FALLS, TX 78654
COLLIER DEAN & ARACELI MALDONADO 651 AVENIDA SERENA MARBLE FALLS, TX 78654	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES 236 GRAYHAWK SPRING RANCH, TX 78070	N/A
BRUNK WILLIAM N & JANA ADAMS 351 AVENIDA SERENA MARBLE FALLS, TX 78654	N/A	JOSEPH LAND & CATTLE CO LTD 2904 RICHARD LN AUSTIN, TX 78703

IMPACT CHRISTIAN YOUTH CAMP INC
1552 CR 344
MARBLE FALLS, TX 78654

HANK & JANET LEWIS REAL ESTATE
HOLDINGS LLC
PO BOX 217
MARBLE FALLS, TX 78654

BRYANT ELSA BARDELOZA
MANAGEMENT TRUST
506 CR 344
MARBLE FALLS, TX 78654

SCHARFSTEIN JOEL & DEBORAH
PRUTZMAN
310 CR 344
MARBLE FALLS, TX 78654

SCHARFSTEIN JOEL & DEBORAH
PRUTZMAN
310 CR 344
MARBLE FALLS, TX 78654

LEVINE MATTHEW A
300 CR 344
MARBLE FALLS, TX 78654

BAKER KENNETH L & SHIRLEY K
PO BOX 514
CROSS PLAINS, TX 76443

LEVINE MATTHEW A
300 CR 344
MARBLE FALLS, TX 78654

HISEY TONNAHISEY TONNA
110 CR 344
MARBLE FALLS, TX 78654

DAY PATRICIA R
100 CR 344
MARBLE FALLS, TX 78654

DAY PATRICIA R
100 CR 344
MARBLE FALLS, TX 78654

N/A

RENFRO MANAGEMENT TRUST
PO BOX 5529
LAGO VISTA, TX 78645

HUDDLESTON J B & SUE C LIVING TRUST
10711 E FM 1431
MARBLE FALLS, TX 78654

FRANKI BO & BONNIE
13711 E FM 1431
MARBLE FALLS, TX 78654

N/A

PRUETT LEE T
PO BOX 4670
HORSESHOEBAY, TX 78657

PRUETT LEE T
PO BOX 4670
HORSESHOEBAY, TX 78657

ROY RUSSELL & GAIL M
4011 BRYNMAWR DR
RICHMOND, TX 77406

MARTIN ANNETTE & TIMOTHY MARTIN
260 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

DUDLEY JOHN GRANT & TERESA LYNN
109 PAINTED HORSE
WACO, TX 76712

GALFAND WENDRA J
2750 GLIDER ST APT 203
FORT BRAGG, NC 28307

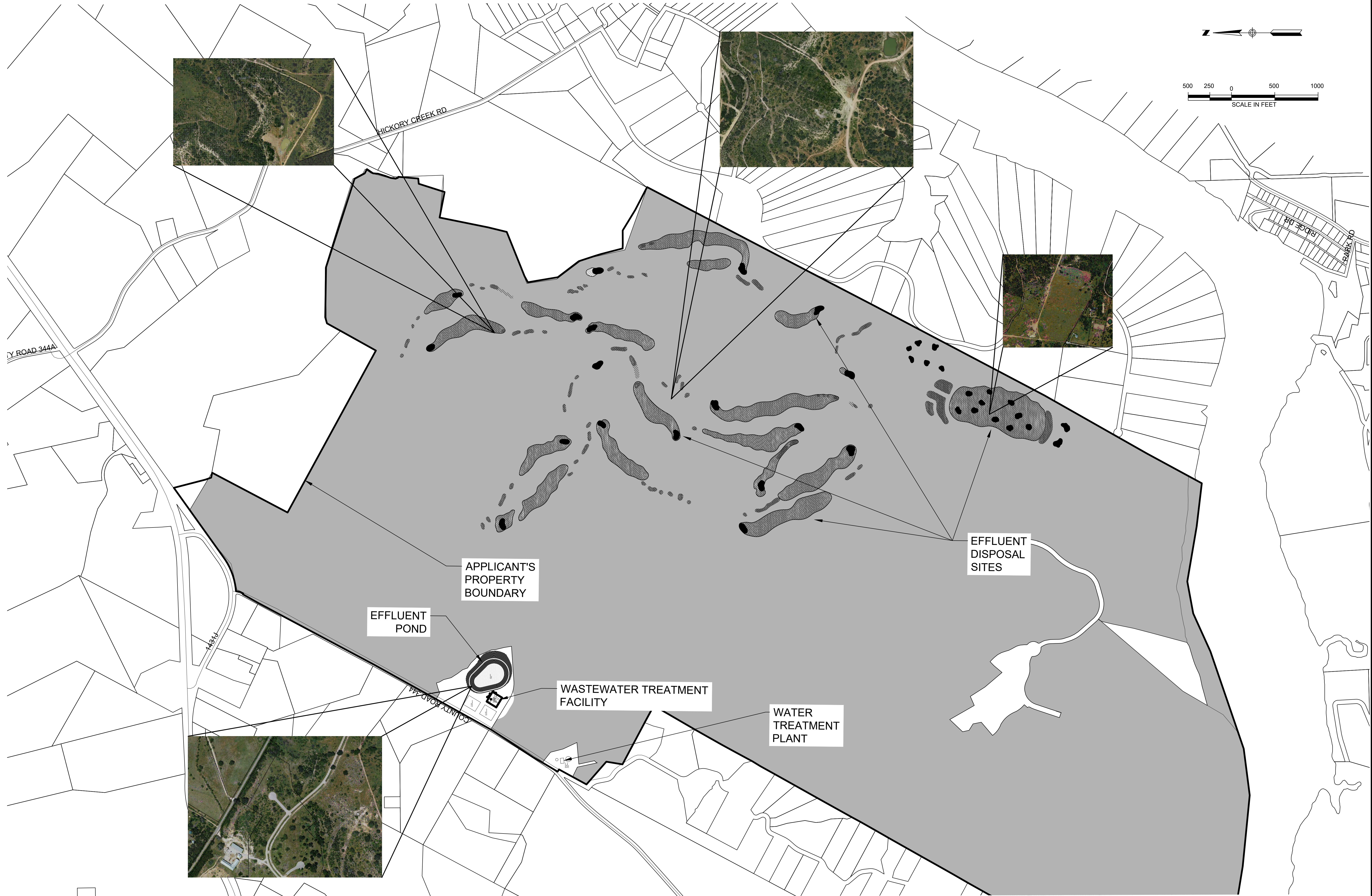
PETERSON STEVEN GLENN & VIRNA
ALEJANDRA VILLAGOMEZ
12291 CHIANTI DR
ROSSMOOR, CA 90720

GRIFFITH JEFFREY & JULISSA
394 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

PARKER JERRY L & SYLVIA I
570 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

MASUDA TERENCE D & AMY S
585 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

APPENDIX E
ORIGINAL PHOTOGRAPHS



SMITHWICK TRACT WWTP

BURNET COUNTY, TX

LJA Engineering, Inc.
7500 Riata Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

APPENDIX F
BUFFER ZONE MAP

LEGEND



STREAM BUFFER

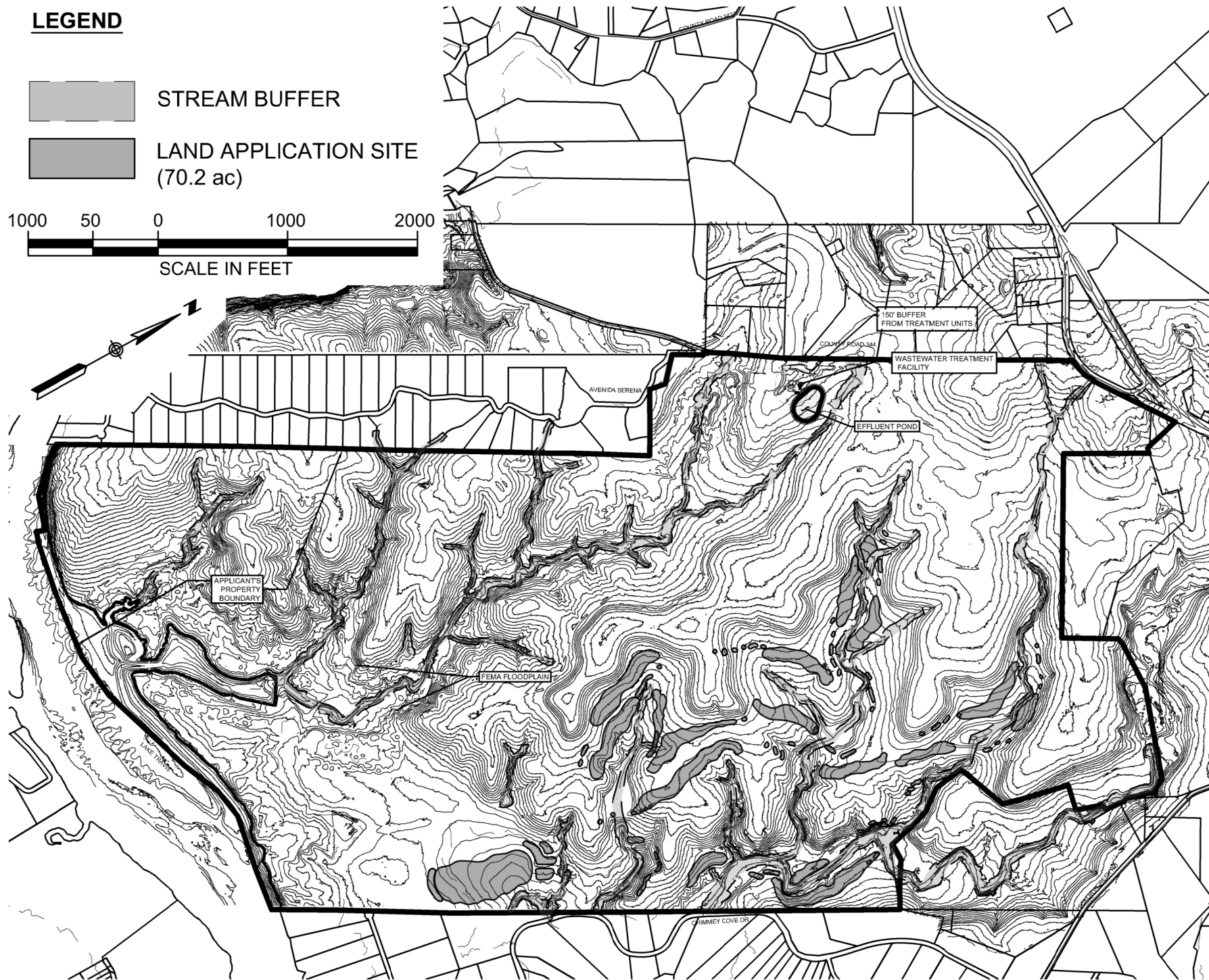
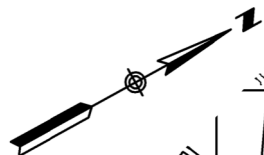


LAND APPLICATION SITE
(70.2 ac)

1000 50 0 1000 2000



SCALE IN FEET



SMITHWICK TRACT WWTP

BUFFER ZONE MAP

BURNET COUNTY

1 OF 1

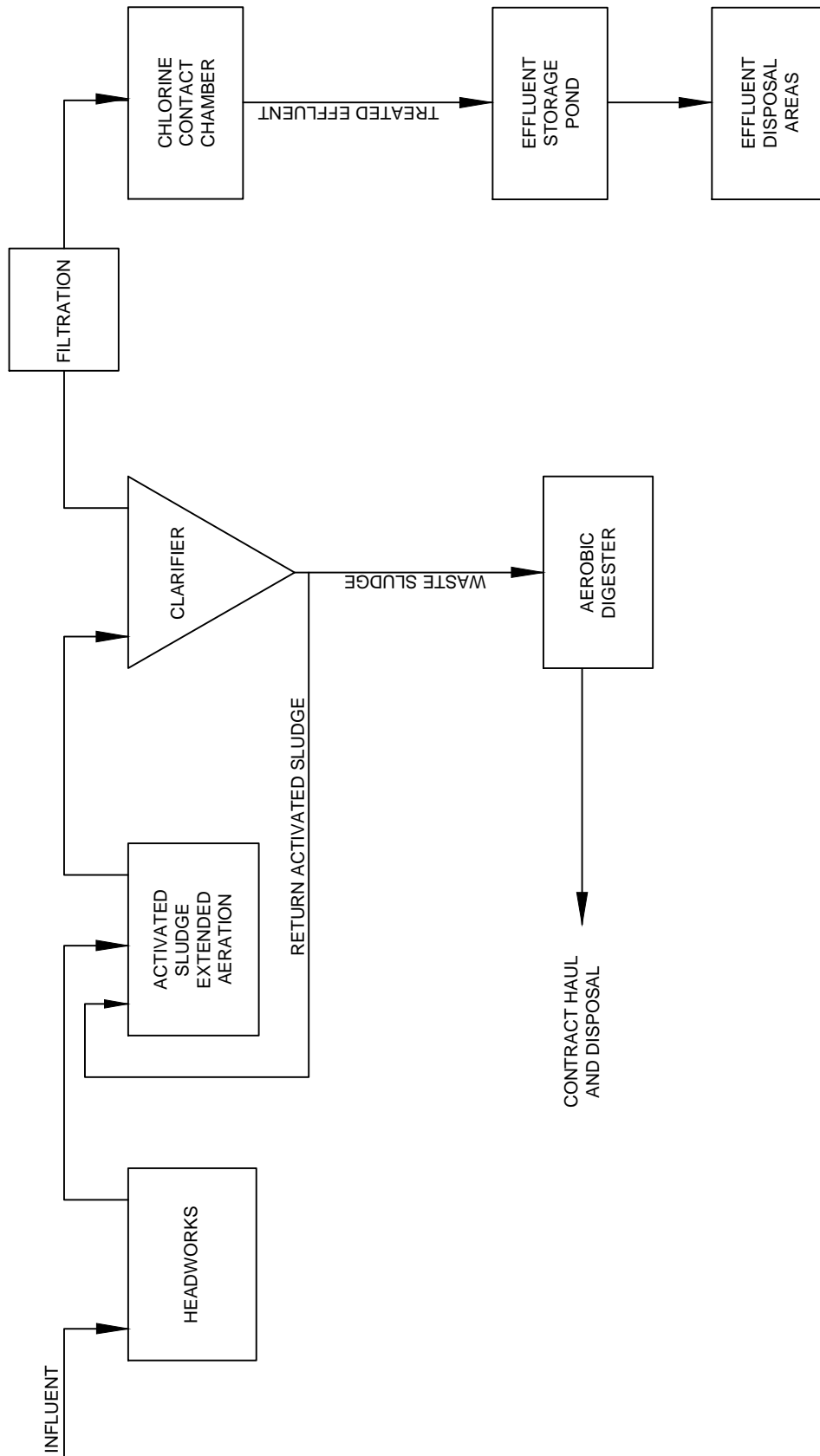


LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735

Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

APPENDIX G
PROCESS FLOW DIAGRAMS



FOR PLANNING PURPOSES ONLY

INTERIM I PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



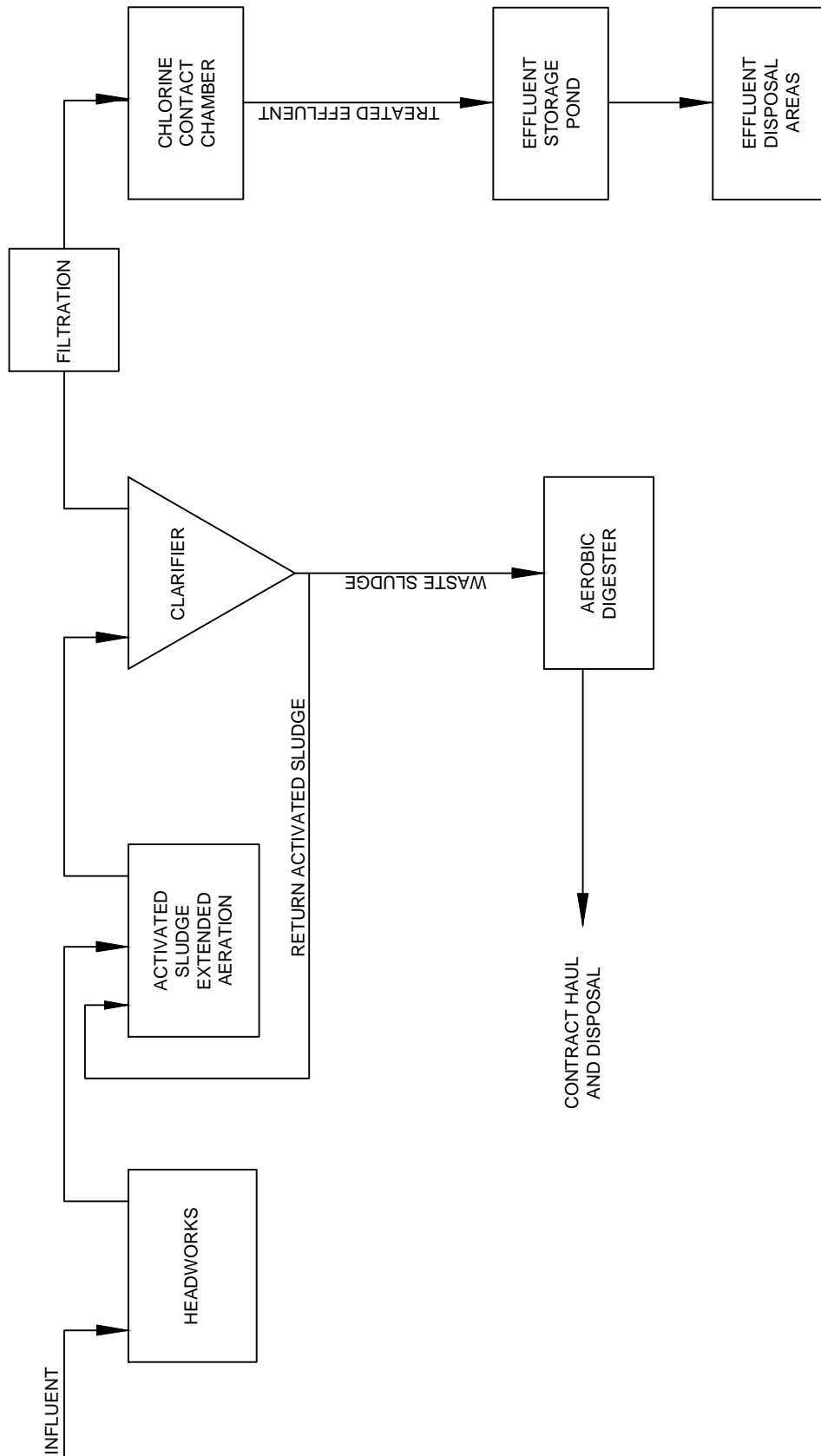
Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1



FOR PLANNING PURPOSES ONLY

INTERIM II PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



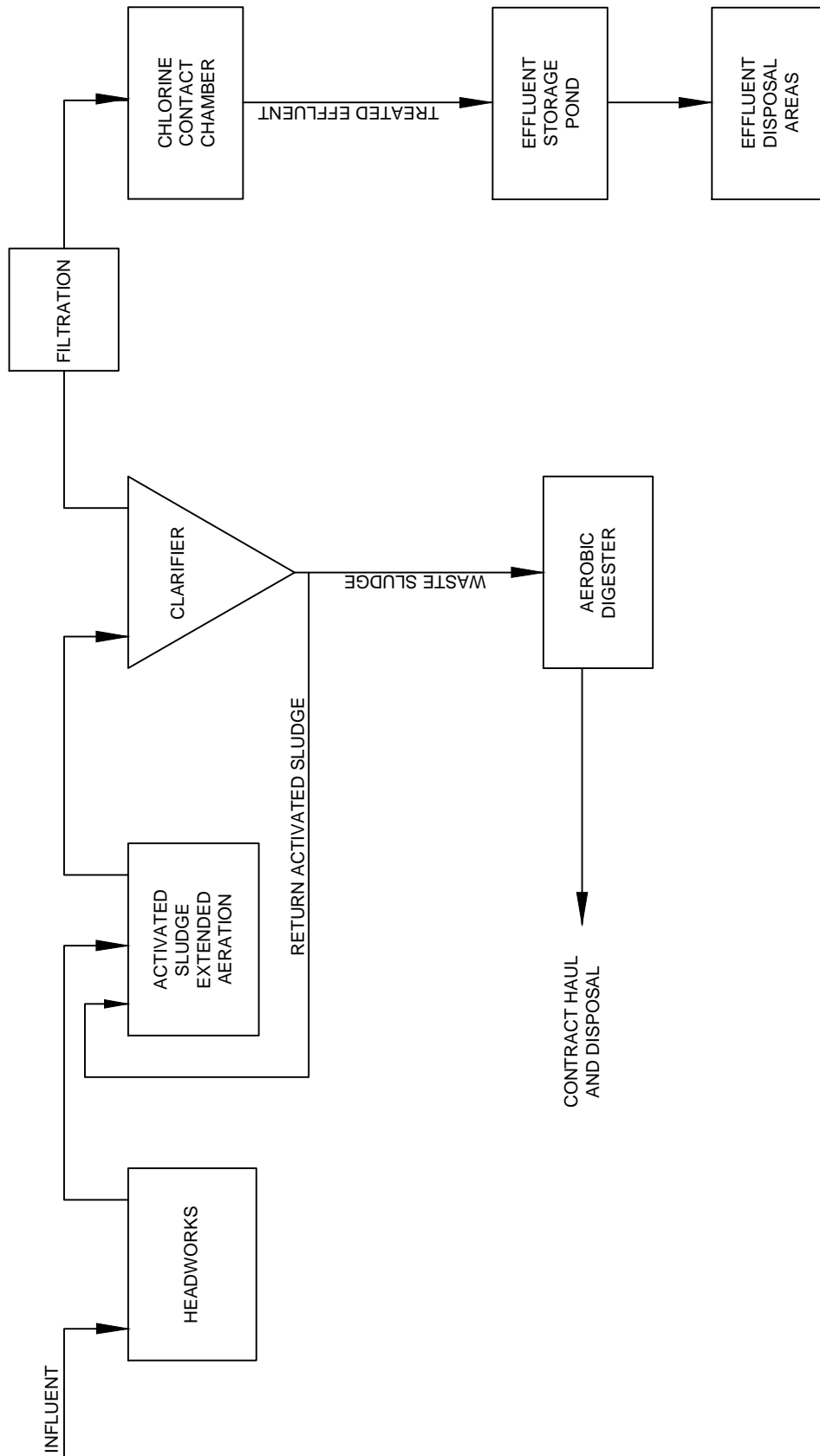
Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1



FOR PLANNING PURPOSES ONLY

FINAL PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1

APPENDIX H
SITE DRAWING

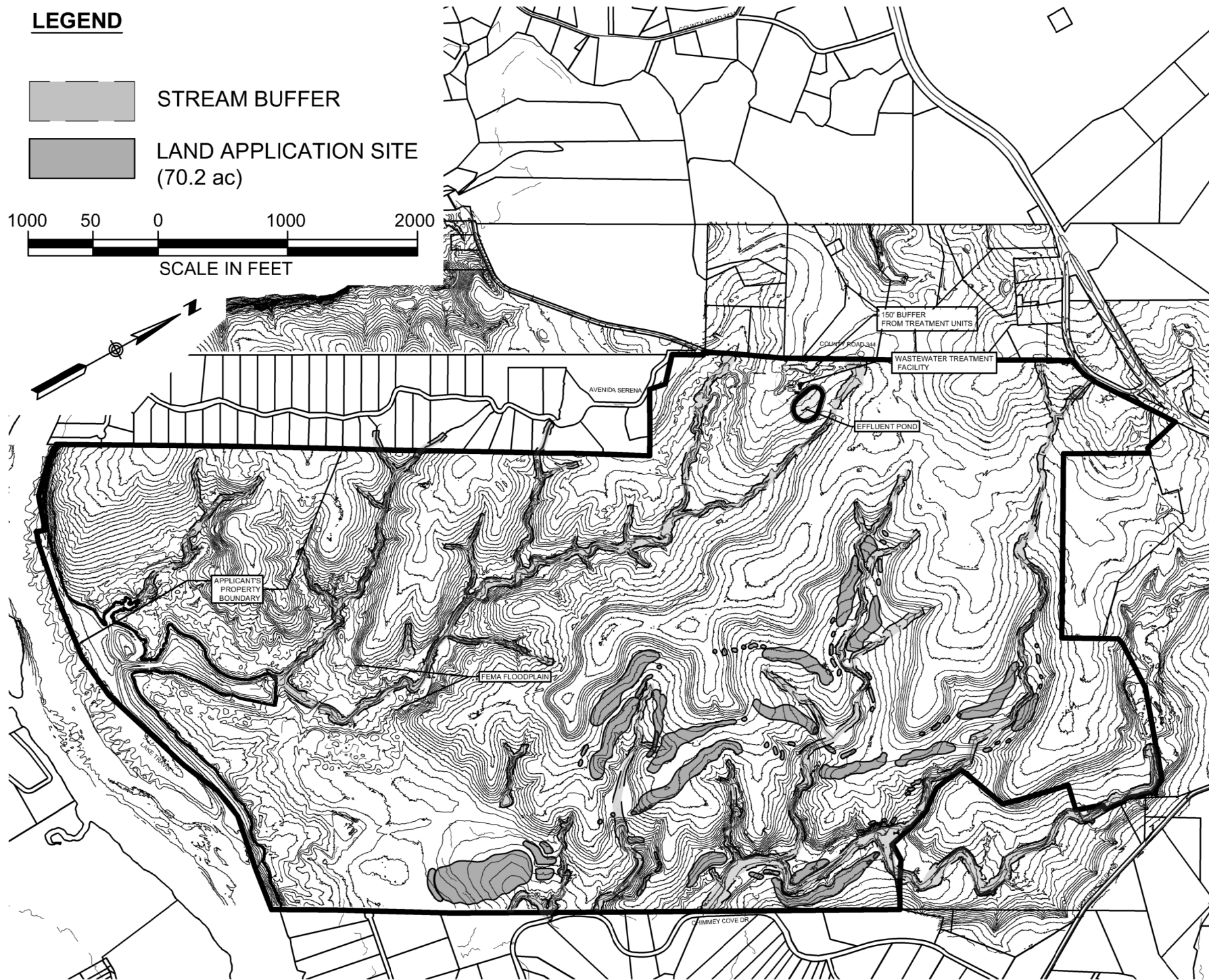
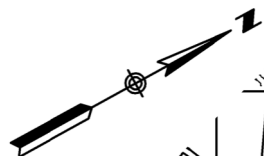
LEGEND



STREAM BUFFER



LAND APPLICATION SITE
(70.2 ac)



SITE DRAWING

SMITHWICK TRACT WWTP

BURNET COUNTY

1 OF 1



LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735

Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

APPENDIX J
DESIGN CALCULATIONS

Smithwick Tract - WWTP FLOW PHASES

Phase 1		Phase 2		Phase 3	
<u>Assumptions</u>		<u>Assumptions</u>		<u>Assumptions</u>	
Average Flow per LUE =	245 gpd	Average Flow per LUE =	245 gpd	Average Flow per LUE =	245 gpd
Average Density	3 LUEs/Ac	Average Density	3 LUEs/Ac	Average Density	3 LUEs/Ac
I/I for Wet Peak	750 gpd/Ac	I/I for Wet Peak	750 gpd/Ac	I/I for Wet Peak	750 gpd/Ac
LUEs	244	LUEs	489	LUEs	734
Average Daily Flow	59,780 gpd	Average Daily Flow	119,805 gpd	Average Daily Flow	179,830 gpd
	42 gpm	Average Daily Flow	83 gpm	Average Daily Flow	125 gpm
Dry Peaking Factor	3.84	Dry Peaking Factor	3.64	Dry Peaking Factor	3.50
Peak Dry Flow	160 gpm	Peak Dry Flow	303 gpm	Peak Dry Flow	437 gpm
Service Area	391 acres	Service Area	391 acres	Service Area	391 acres
I/I for Peak Wet	293,250 gpd	I/I for Peak Wet	293,250 gpd	I/I for Peak Wet	293,250 gpd
	204 gpm		204 gpm		204 gpm
Total Peak Wet Flow	363 gpm	Total Peak Wet Flow	506 gpm	Total Peak Wet Flow	641 gpm
Minimum Flow Factor	0.18	Minimum Flow Factor	0.21	Minimum Flow Factor	0.22
Minimum Flow	7 gpm	Minimum Flow	17 gpm	Minimum Flow	28 gpm

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 1

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.3 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	<input type="text" value="10"/> ft
Proposed Clarifier Diameter	<input type="text" value="18.5"/> ft
Clarifier Surface Area	<input type="text" value="269"/> ft ²
Clarifier Volume	<input type="text" value="2,688"/> ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²

Aeration System Design

(Criteria)

Organic Loading 15 lb BOD/day/1000 ft³
Actual Design Load 400

Required Volume ft³

Required Air Flow 3200 scf / lb BOD (assumes 4.0% transfer efficiency)

(Calculations)

Proposed Sidewater Depth ft

*Note - Min SWD is
8 ft*

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 2

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.3 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	<input type="text" value="10"/> ft
Proposed Clarifier Diameter	<input type="text" value="18.5"/> ft
Clarifier Surface Area	<input type="text" value="269"/> ft ²
Clarifier Volume	<input type="text" value="2,688"/> ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²

Aeration System Design

(Criteria)

Organic Loading 15 lb BOD/day/1000 ft³
Actual Design Load 400 lb BOD/day

Required Volume ft³

scf / lb BOD
(assumes 4.0%
transfer

Required Air Flow 3200 efficiency)

(Calculations)

Proposed Sidewater Depth ft

Note - Min SWD is
8 ft

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 3

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.33 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	10 ft
Proposed Clarifier Diameter	18.5 ft
Clarifier Surface Area	269 ft ²
Clarifier Volume	2,688 ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

*Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²*

Aeration System Design

(Criteria)

Organic Loading	15 lb BOD/day/1000 ft ³
Actual Design Load	400 lb BOD/day
Required Volume	26667 ft ³
	scf / lb BOD (assumes 4.0% transfer efficiency)
Required Air Flow	3200

(Calculations)

Proposed Sidewater Depth ft

*Note - Min SWD is
8 ft*

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

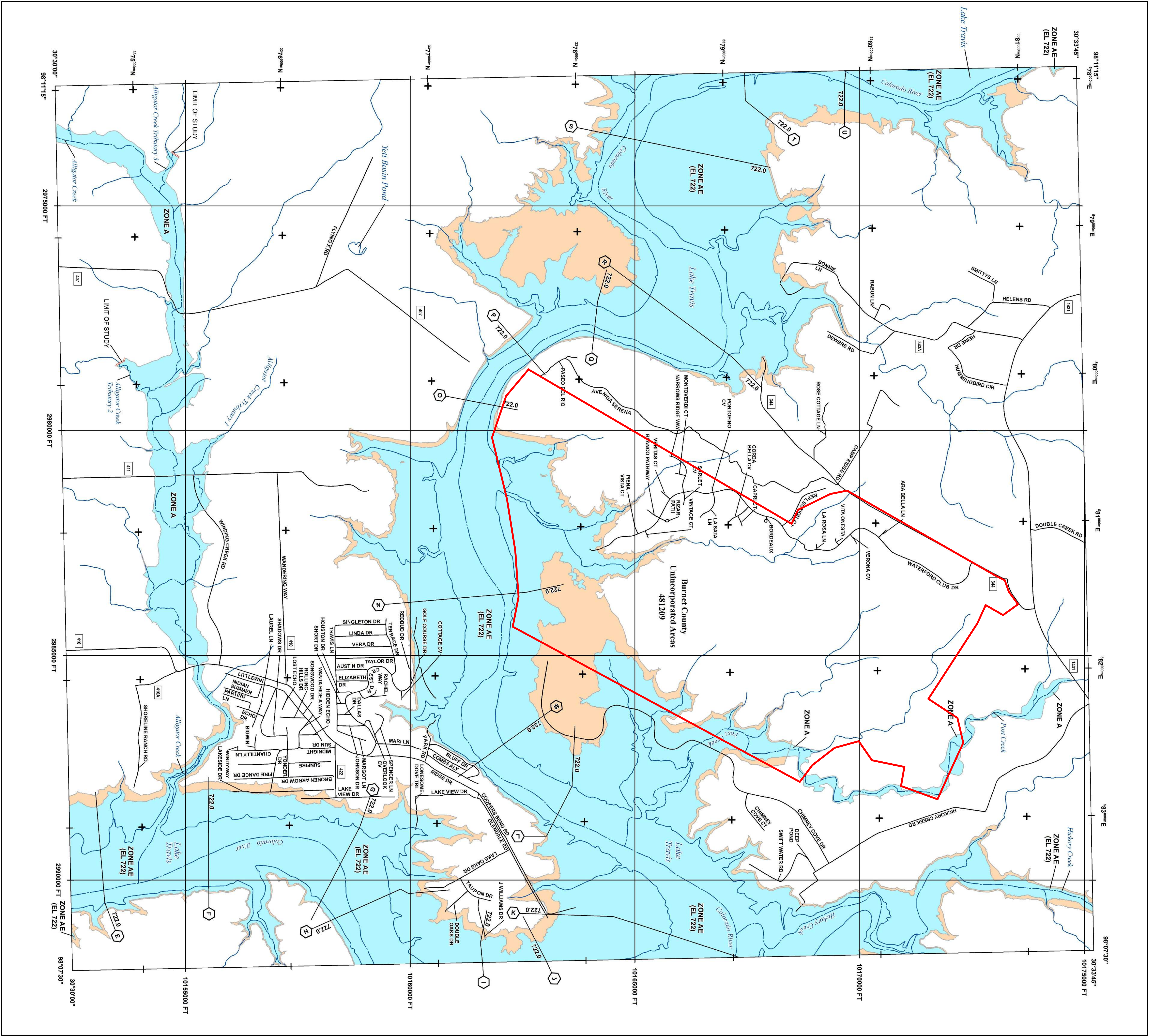
(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

APPENDIX K
FEMA FLOOD MAPS AND WIND ROSE



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTPS://MSC.FEMA.GOV](https://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A V, A99
With BFE or Depth Zone AE, AO, AH, VE, AR
Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
Future Conditions 1% Annual Chance Flood Hazard Zone X
Area with Reduced Flood Risk due to Levee
See Notes, Zone X
Area with Flood Risk due to Levee Zone D
Area of Minimal Flood Hazard Zone X
NO SCREEN

OTHER AREAS

- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance
Water Surface Elevation
Coastal Transect
Profile Baseline
Hydrographic Feature
Base Flood Elevation Line (BFE)
Limit of Study
Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information Exchange at 1-877-FEMA-4388 or visit <https://www.fema.gov/nfip>. For more information on the NFIP, visit <https://www.fema.gov/nfip>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Communities seeking land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. There may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map data, refer to the Flood Insurance Study Report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-438-6620.

This map information shown on this FIRM was derived from digital data obtained from NFWL, dated 2014, and CACOG dated 2014 and 2016.

SCALE

SCALE

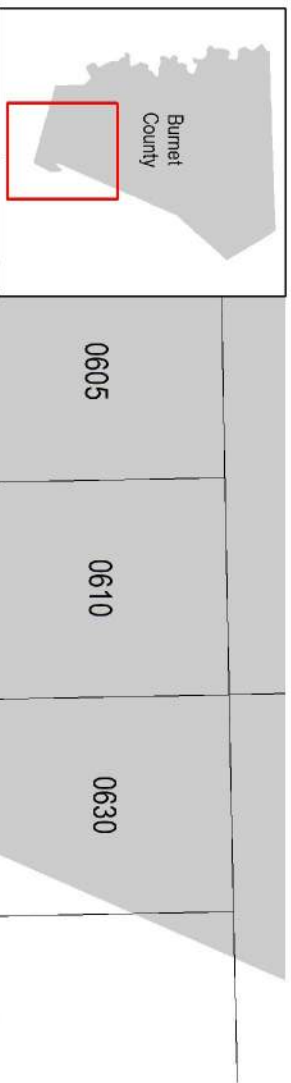
North Arrow

1 inch = 1,000 feet

0 1,000 2,000 4,000 feet

0 250 500 1,000 meters

PANEL LOCATOR



FEMA National Flood Insurance Program

**NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
BURNET COUNTY TEXAS
PANEL 620 OF 725**

Panel Contains:
COMMUNITY
BURNET COUNTY

NUMBER PANEL SUFFIX
481209 0620

VERSION NUMBER
2.3.3.3

MAP NUMBER
48053C0620G

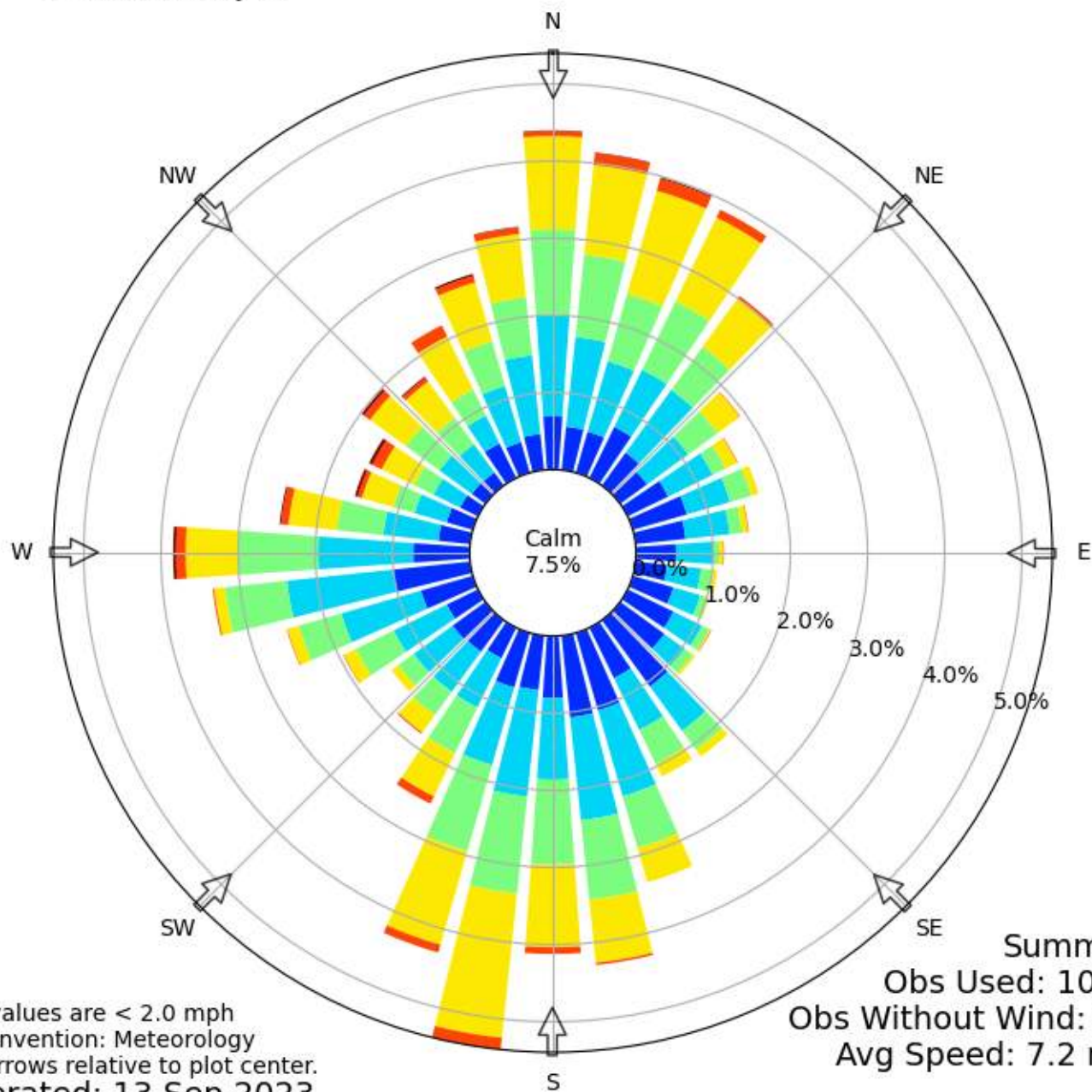
MAP REVISED
NOVEMBER 1, 2019



Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Jan 2009 12:25 AM - 31 Jan 2023 11:55 PM America/Chicago

↳ constraints: Jan



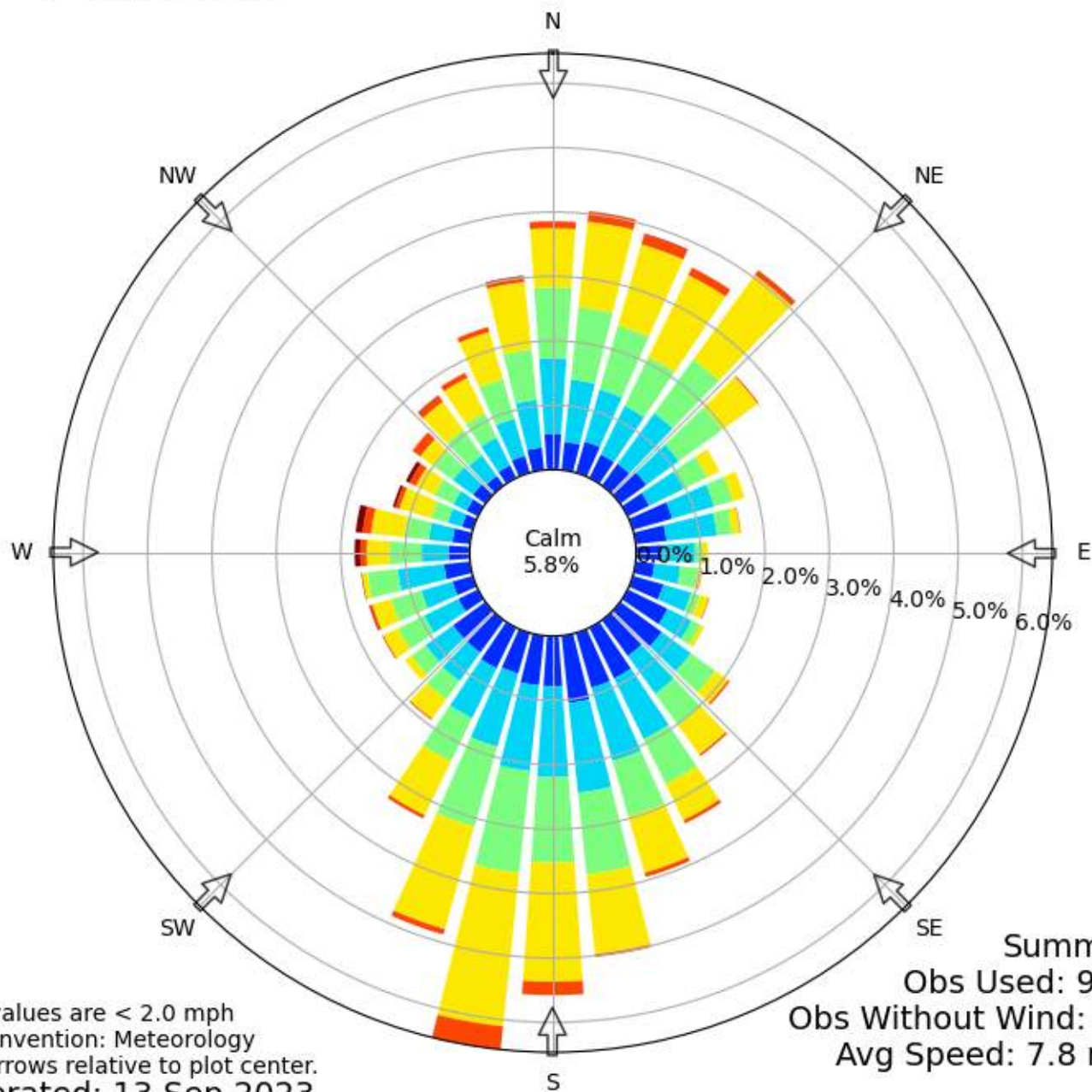
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10824
Obs Without Wind: 388
Avg Speed: 7.2 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Feb 2009 12:25 AM - 28 Feb 2023 11:55 PM America/Chicago
↳ constraints: Feb



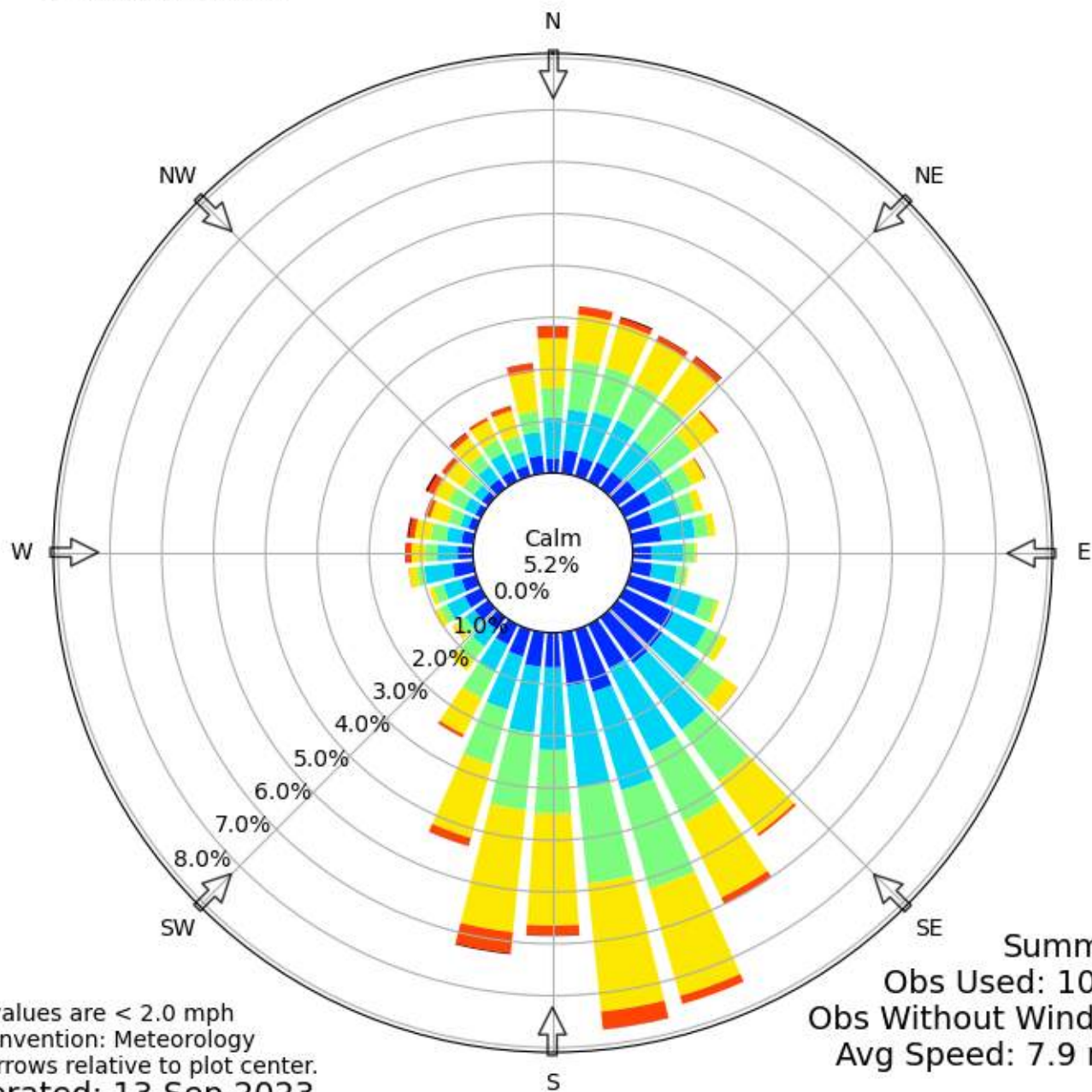
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 9559
Obs Without Wind: 431
Avg Speed: 7.8 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Mar 2009 12:25 AM - 31 Mar 2023 11:55 PM America/Chicago
↳ constraints: Mar



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10937
Obs Without Wind: 50
Avg Speed: 7.9 mph

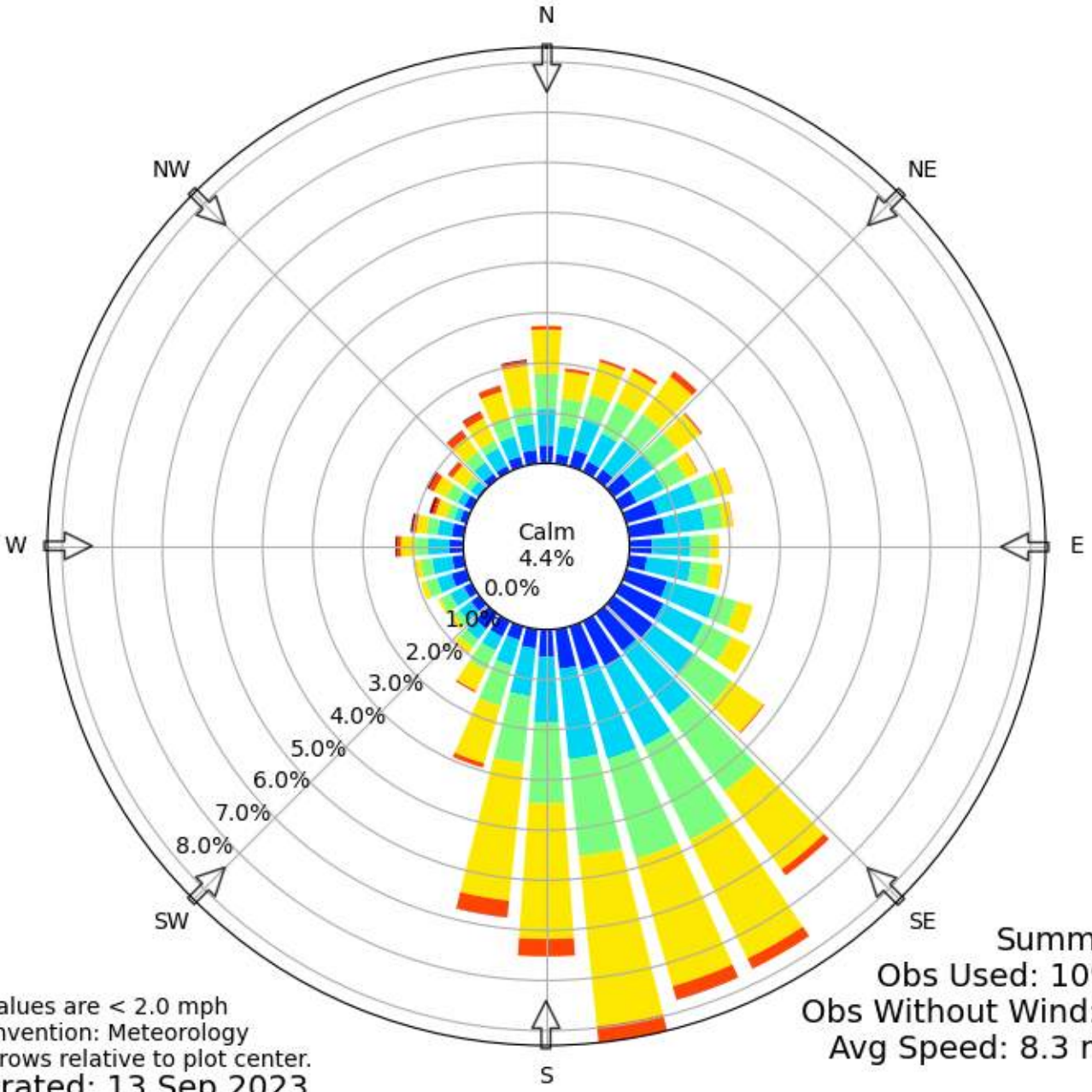




Windrose Plot for [RYW] Lago Vista

Obs Between: 13 Apr 2008 03:25 AM - 30 Apr 2023 11:35 PM America/Chicago

↳ constraints: Apr



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10913
Obs Without Wind: 40
Avg Speed: 8.3 mph

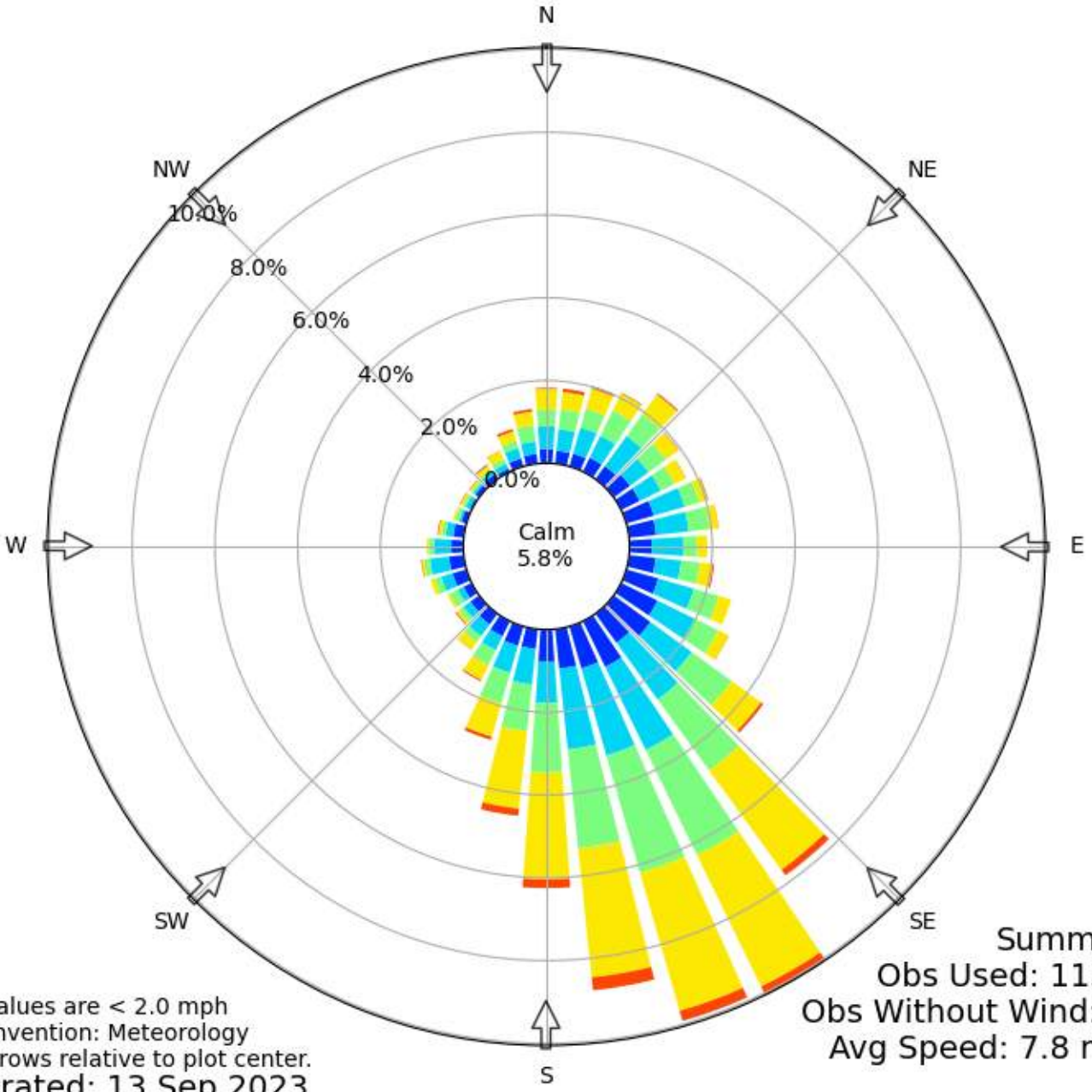




Windrose Plot for [RYW] Lago Vista

Obs Between: 01 May 2008 12:25 AM - 31 May 2023 11:55 PM America/Chicago

↳ constraints: May



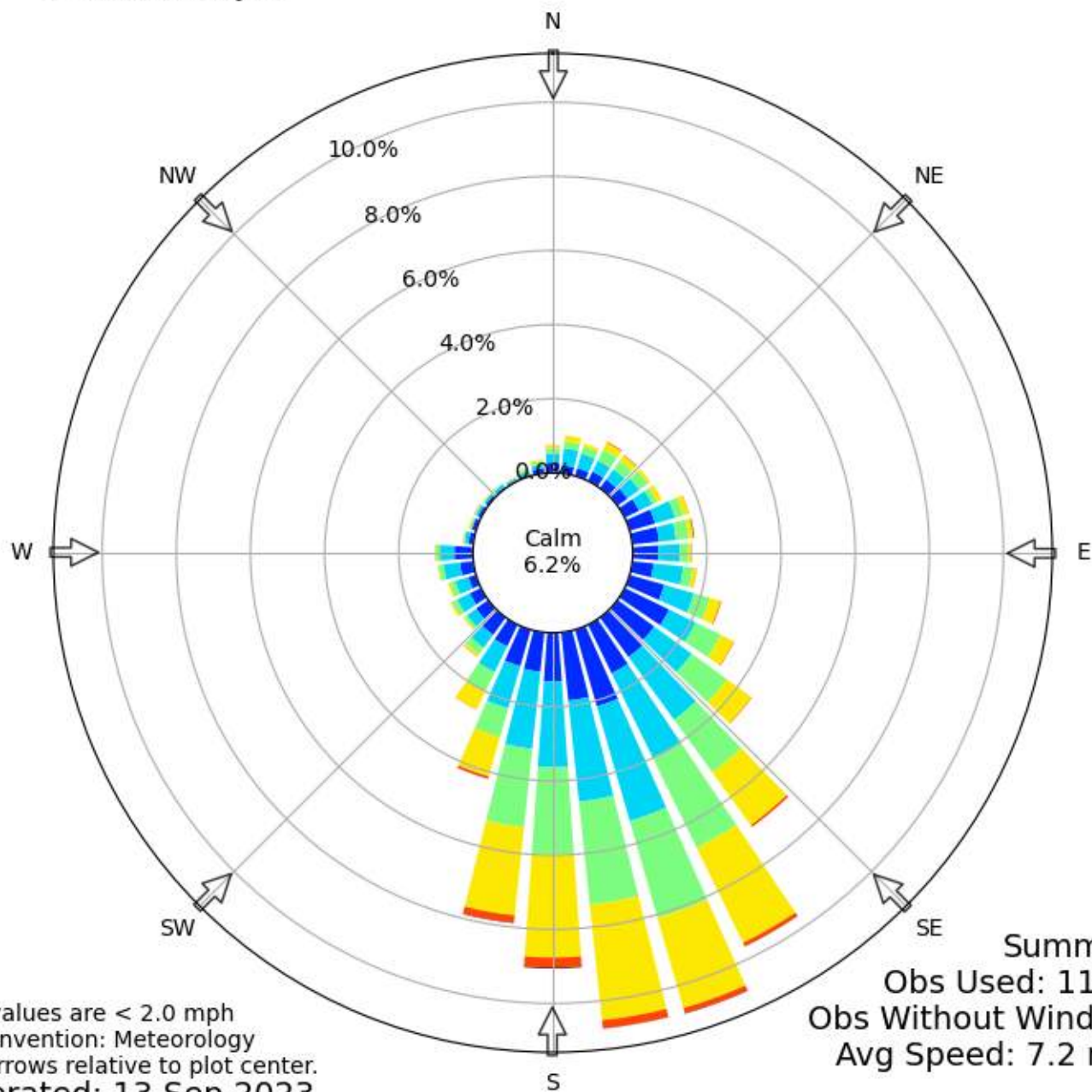
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11512
Obs Without Wind: 50
Avg Speed: 7.8 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Jun 2008 12:25 AM - 30 Jun 2023 11:55 PM America/Chicago
↳ constraints: Jun



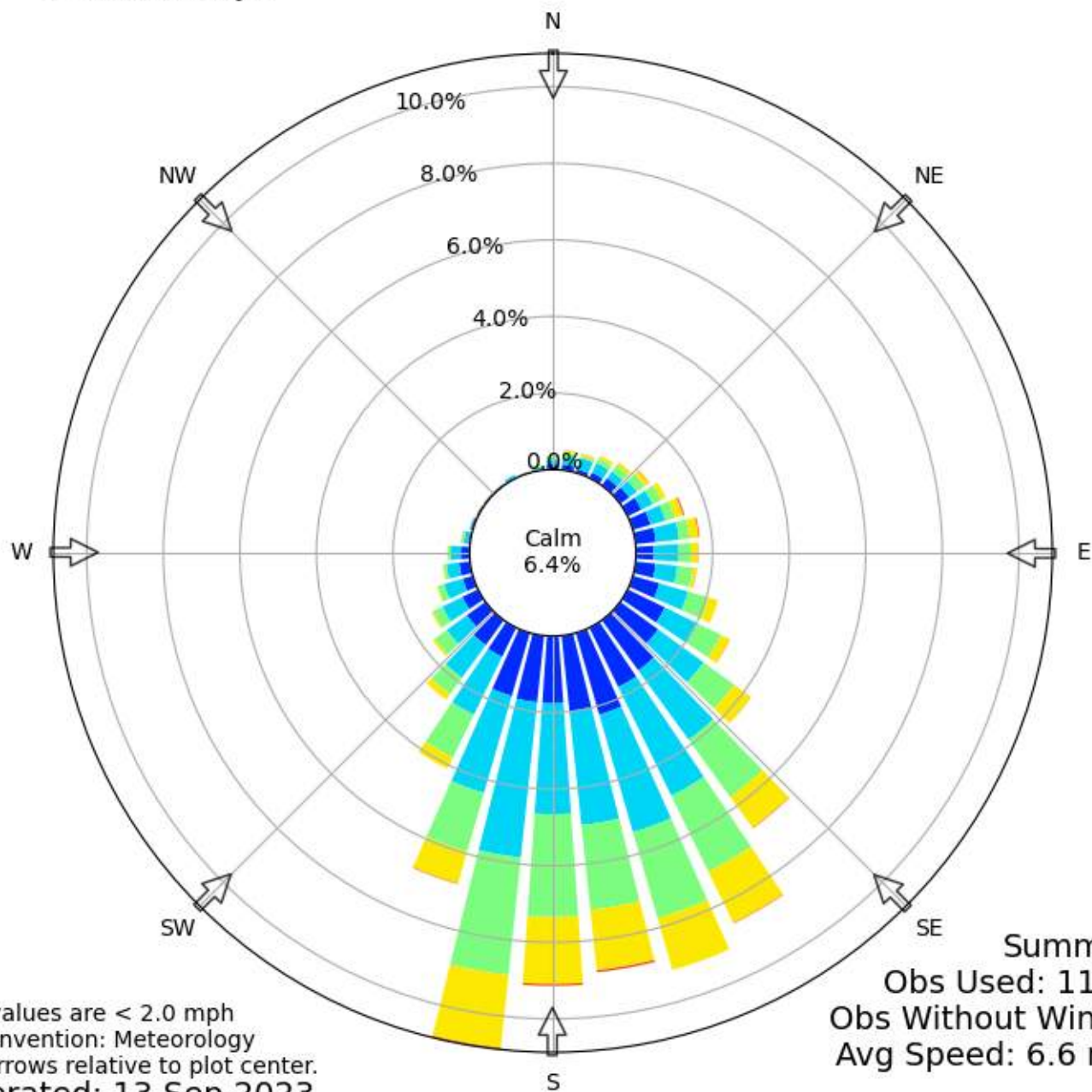
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11361
Obs Without Wind: 69
Avg Speed: 7.2 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Jul 2008 12:25 AM - 31 Jul 2023 09:35 PM America/Chicago
↳ constraints: Jul



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11661
Obs Without Wind: 8
Avg Speed: 6.6 mph

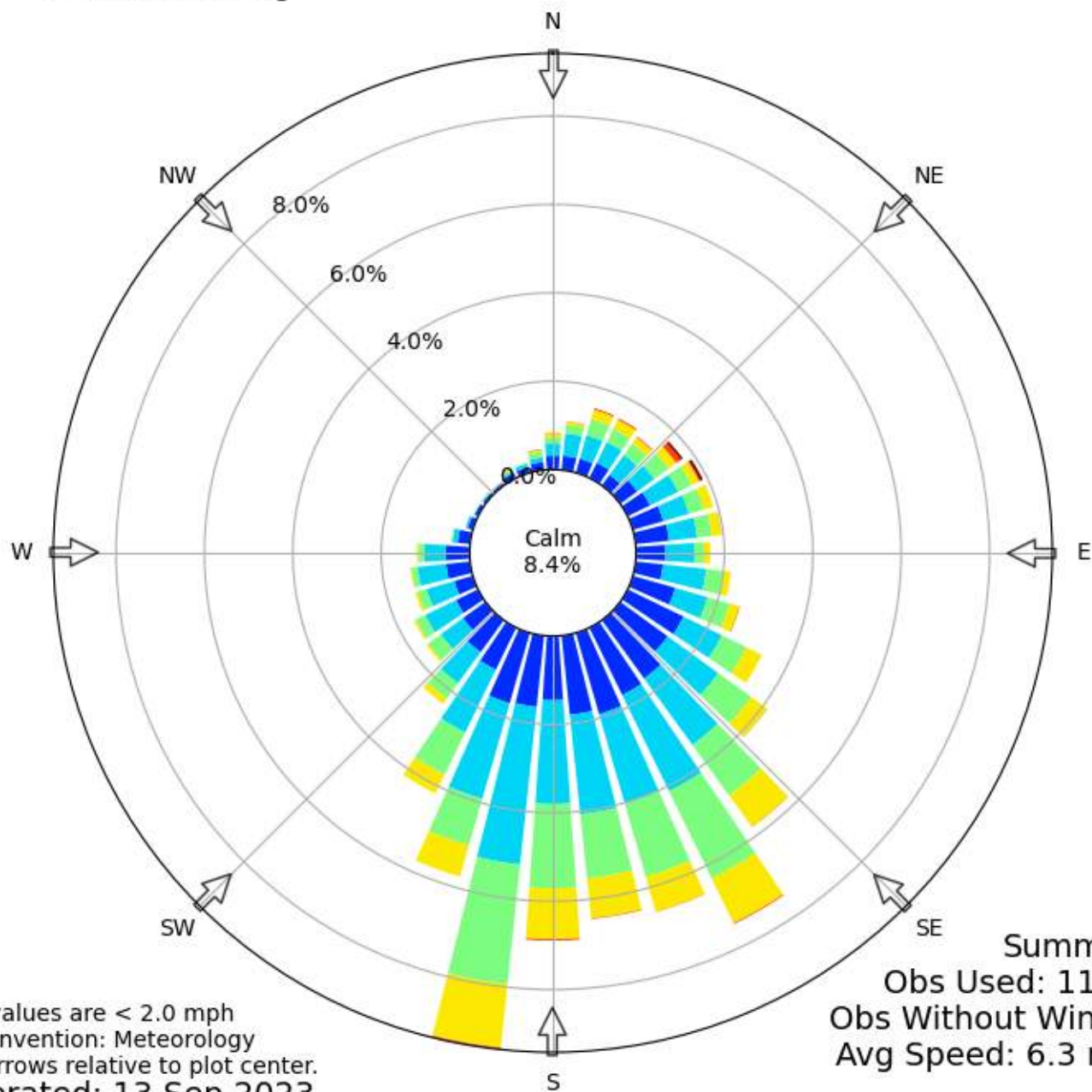




Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Aug 2008 12:25 AM - 31 Aug 2023 11:55 PM America/Chicago

↳ constraints: Aug



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11715
Obs Without Wind: 4
Avg Speed: 6.3 mph

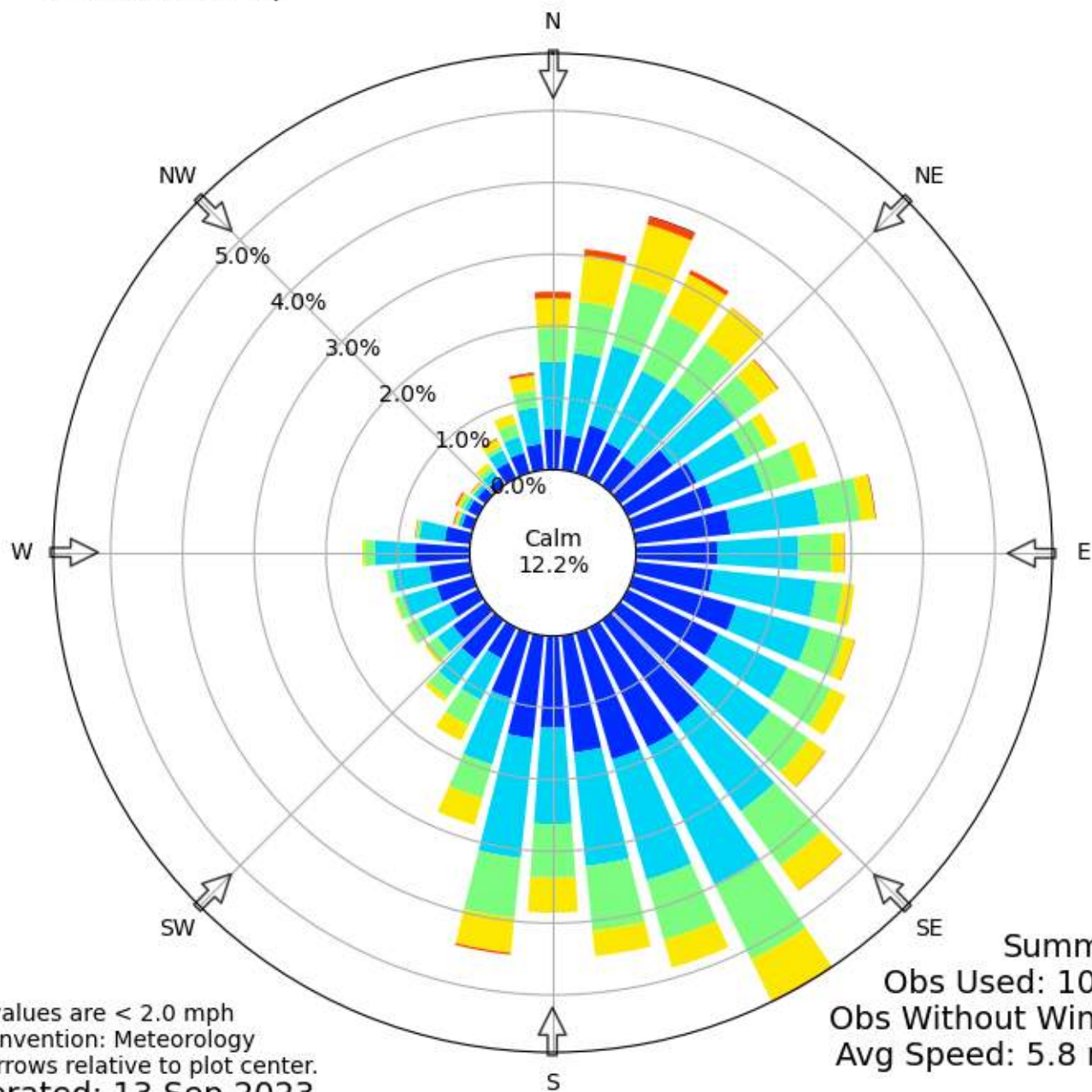




Windrose Plot for [RYW] Lago Vista

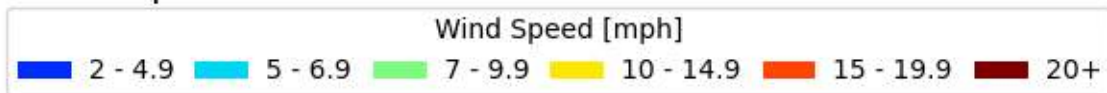
Obs Between: 01 Sep 2008 12:25 AM - 13 Sep 2023 02:55 AM America/Chicago

↳ constraints: Sep



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10698
Obs Without Wind: 6
Avg Speed: 5.8 mph

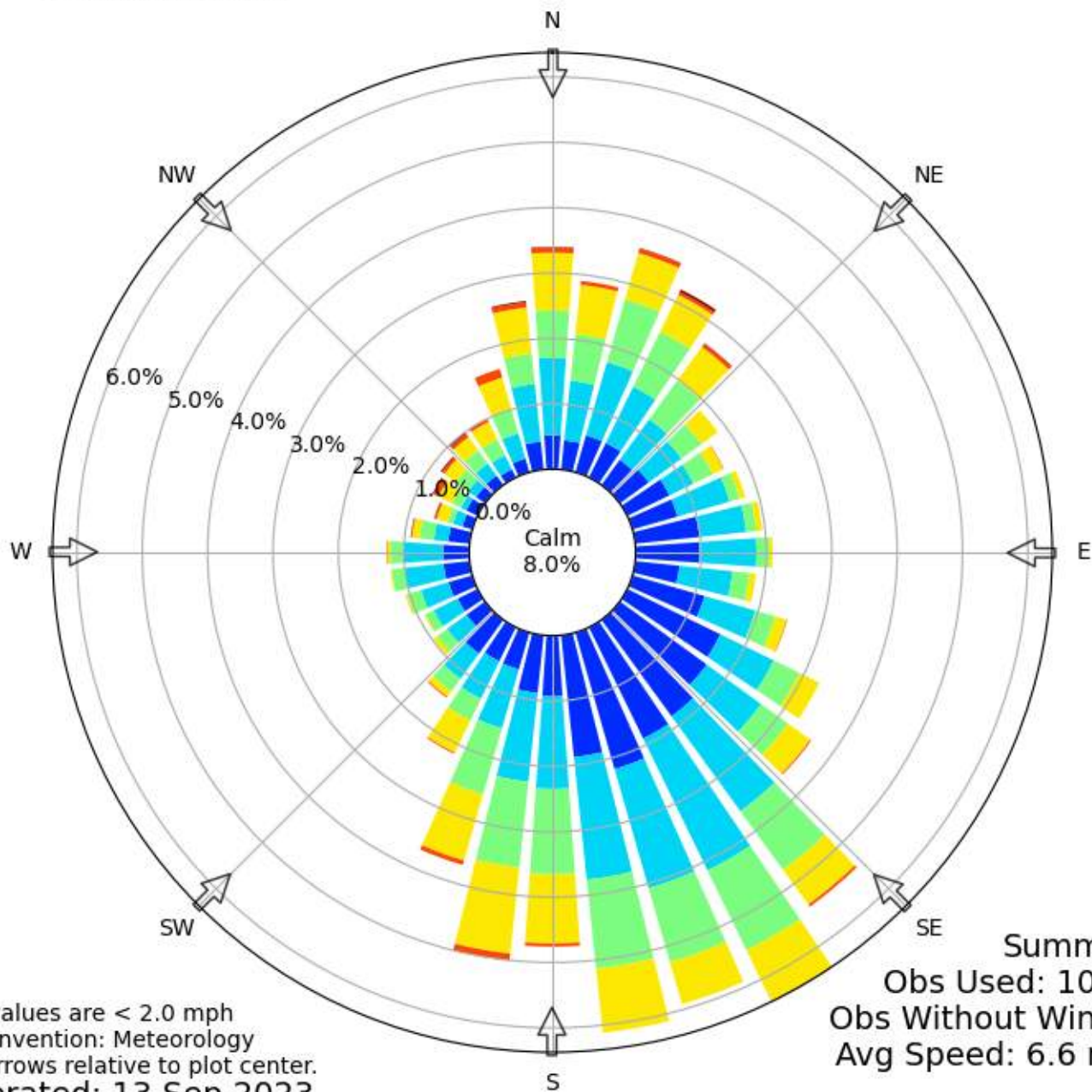




Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Oct 2008 12:25 AM - 31 Oct 2022 11:55 PM America/Chicago

↳ constraints: Oct



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Wind Speed [mph]

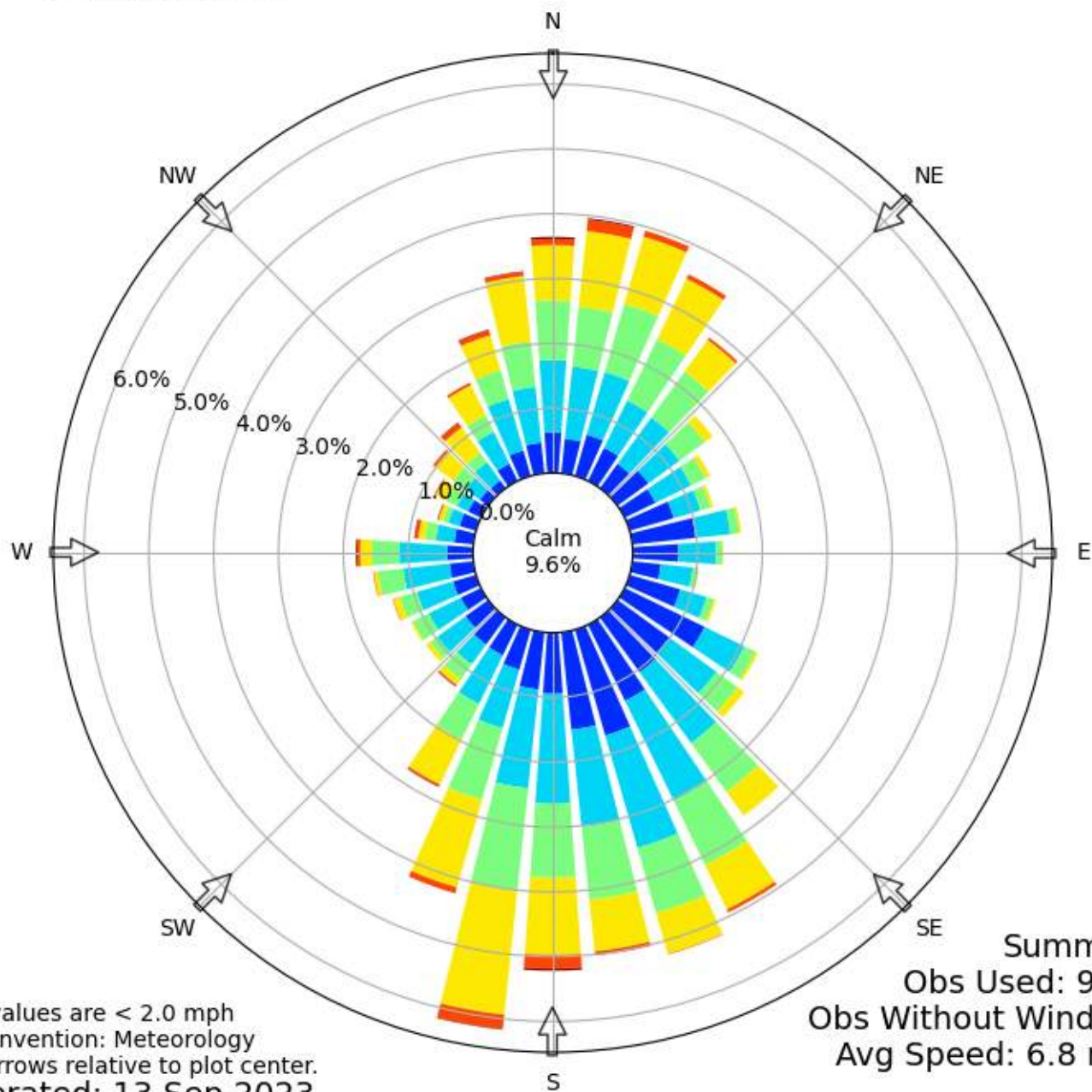
2 - 4.9 5 - 6.9 7 - 9.9 10 - 14.9 15 - 19.9 20+



Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Nov 2008 01:25 AM - 30 Nov 2022 11:55 PM America/Chicago

↳ constraints: Nov



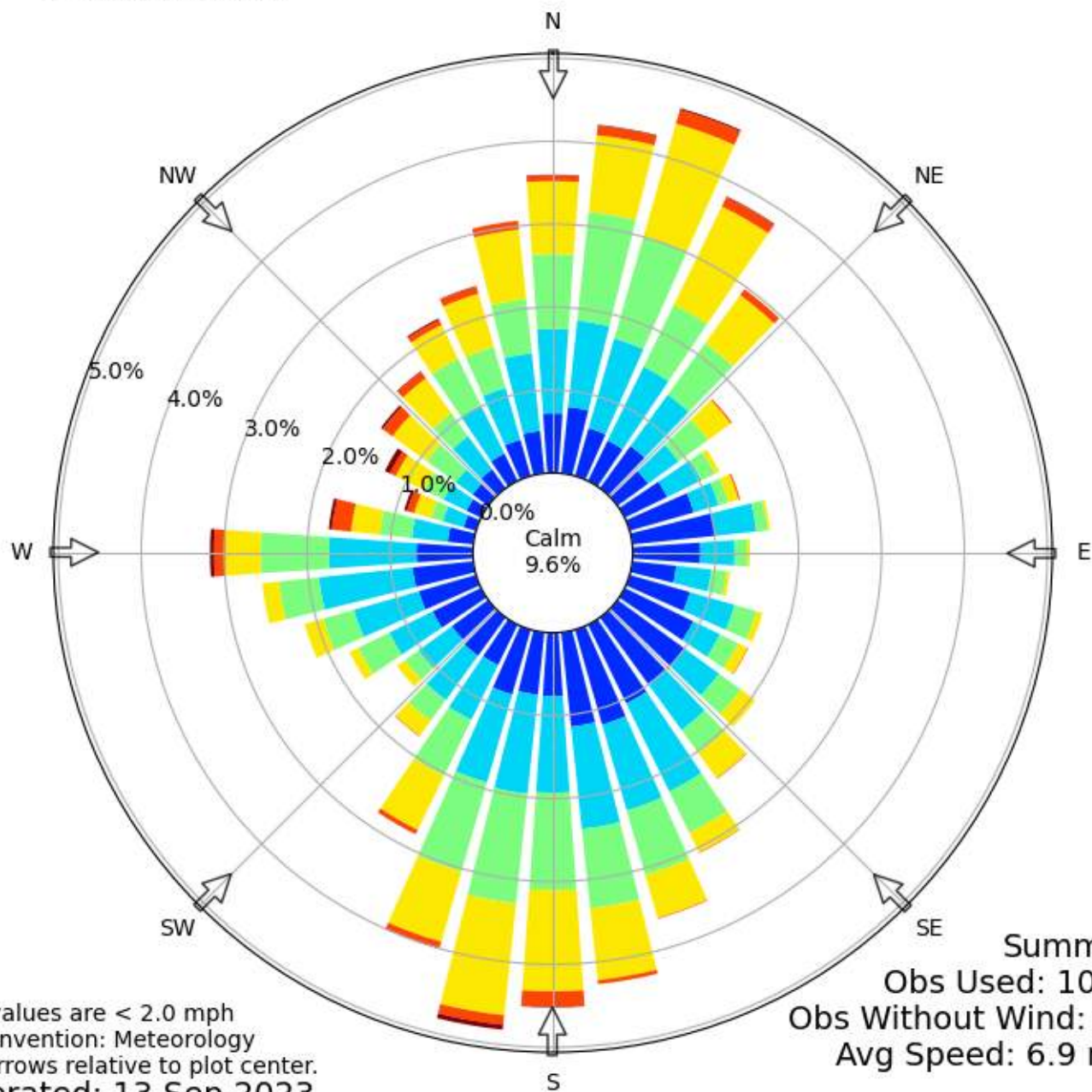
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 9493
Obs Without Wind: 22
Avg Speed: 6.8 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Dec 2008 12:25 AM - 31 Dec 2022 11:55 PM America/Chicago
↳ constraints: Dec



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10444
Obs Without Wind: 130
Avg Speed: 6.9 mph



APPENDIX L
SEWAGE SOLIDS MANAGEMENT PLAN

SMITHWICK TRACT
WWTP

First Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
60,000	8,000	25%	15,000	13	16	246	243
	59,840	50%	30,000	26	33	492	122
		75%	45,000	39	49	737	81
		100%	60,000	52	66	983	61

Interim Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
120,000	16,000	25%	30,000	26	33	492	122
	119,680	50%	60,000	52	66	983	61
		75%	90,000	79	98	1,475	41
		100%	120,000	105	131	1,966	30

Final Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
180,000	24,000	25%	45,000	39	49	737	81
	179,520	50%	90,000	79	98	1,475	41
		75%	135,000	118	148	2,212	27
		100%	180,000	157	197	2,949	20

Sludge will be wasted from the clarifier underflow to the digester. Sludge will stay in the digester with the decant returned to the headworks of the plant. Sludge will be removed from the digester on a schedule approximate to the HRT of the digester.

APPENDIX M

POND LINER CERTIFICATION

APPENDIX M

POND LINER CERTIFICATION

The pond liner will be geomembrane with an underdrain and a leak detection system. It will have a minimum thickness of 45 mils and will include sampling points. Final Design by a licensed Texas PE will be included in the construction plans submitted to TCEQ for review and approval prior to construction.

APPENDIX N
ANNUAL CROPPING PLAN

CROPPING PLAN

FOR

**SMITHWICK TRACT WASTEWATER TREATMENT PLANT
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

May 2024

PREPARED BY

**LJA ENGINEERING, INC.
7500 RIALTO BLVD, BUILDING II, SUITE 100
AUSTIN, TEXAS 78735
(512) 439-4700**

CROPPING PLAN

The proposal for the wastewater application areas is to remove the smaller ashe juniper trees, import soil, construct final golf course grading, install the spray lines and overseed with Turf Grass. The irrigation areas will be over seeded with turf grasses year-round to ensure consistent uptake of water and nutrients. The irrigation areas will be mowed regularly, and maintain a height of approximately 0-2 inches, to ensure that the grasses will be actively growing at all times. No supplemental irrigation will be needed.

There are no plans to fertilize the grasses other than germination. Fertility recommendations for the grasses to be used at this site are generally 100-150 lbs/acre of N. The grasses will be fertilized for germination and it is not anticipated to fertilize in the future.

Turf grasses are very salt tolerant, and this site is not expected to develop any salinity problems.

Site Preparation

Preparing the site involves removing trees and debris, planning for drainage, and grading the site.

1. Remove debris. Insist that the builder not use the site as a dumping ground for paint, concrete, and other materials.
2. Remove trees and surface rocks and debris from the site.
3. Soil depth of 19 inches minimum is required. Measure soil depths and import as necessary.
4. Plan for easy maintenance and a pleasing appearance. Avoid terraces, steep grades, poorly drained areas, and heavily shaded spots. Grading shall not exceed 8% on areas to be irrigated.
5. Shape the underlying subsoil to the desired contour and redistribute topsoil uniformly above the subsoil. A percent slope minimum is needed for proper drainage away from buildings. Make certain the soil is firmed after shaping. There should be no visible footprints after walking on it.
6. Water the area to enhance settling. Fill areas that settle unevenly to avoid standing water.

Soil Preparation

Well-prepared soil with adequate nutrients for growing grass encourages the development of a healthy field.

1. Take soil samples from the irrigation areas to determine soil pH and nutrient requirements. A single soil test may be all that is necessary if there are no obvious differences in soil texture, terrain, or troubled areas of the front yard and backyard. If the soils seem different, collect soil samples to a depth of 3 to 4 inches from several (10-15) locations and mix them together to produce a composite sample.
2. Based on the soil test report recommendations of the fertilization guidelines presented below, incorporate lime and fertilizer into the top 6 to 8 inches of the soil using a disk or rototiller. Regardless of the region, a deeper root system is able to extract more moisture and nutrients from the soil, improving drought tolerance and overall health of the plant.
3. Rake or harrow the site to establish a smooth and level final grade. Soil particles should be no larger than marble size, and pea gravel size is even better. Hand raking is the best way to level the soil and work out hills and hollows. Allow time for rain or irrigation to settle the soil and roll or cultipack lightly to firm the soil before planting seed. Hand rake again to break up the crusty surface before planting.
4. Prior to irrigation, a minimum of 19 inches of soil must be present in all proposed irrigation areas.

Turf Grass

Turf grass is extremely drought tolerant and grows rapidly on any type of soil except where drainage is poor. Cultivar texture ranges from coarse to fine, and it forms a dense, durable surface when grown in full sunlight. The majority of cultivars will not tolerate shade. Turf grass is well adapted to sandy soils. It establishes quickly, withstands wear and traffic, and recovers rapidly from injury.

Common Bermudagrass, which is the most coarsely textured, can be seeded. Several newer cultivars, however, can also be seeded that have a medium texture. Bermudagrass should be seeded at 1 to 2 pounds per 1,000 sq ft.

Establishing a healthy, attractive field means planting the best grass for your site at the right time and in a careful manner. Grass can be seeded or established using vegetation in the form of sprigs, plugs, or sod. The type of grass and the planting method you select will determine the best time of year to plant. Site and soil preparation, including fertilization, are especially important.

Mowing

Use a rotary (centrifugal) mower.

1. Keep the mower blades sharp and balanced. The leanest cut and best mowing are obtained when the mower blades are sharp. Dull mower blades reduce field quality by tearing instead of cleanly cutting the grass. Tearing creates many ragged leaf ends that quickly wither and bleach and are easy ports of entry for disease. Using a sharp mower is especially important for difficult-to-mow grasses, such as Bermudagrass. A properly sharpened and balanced mower blade will also reduce mower vibration, lengthen mower life, and reduce fuel consumption by as much as 22 percent.
2. Mow at the proper height. The frequency of mowing is governed by the desired grass height and by the amount of growth, which depends on temperature, fertility, moisture conditions, season, and the natural growth rate of the grass. In most instances, this may amount to biweekly and weekly mowing. To maintain a high-quality field, turfgrass should be cut often enough that less than 50 percent of the leaf surface is removed with each mowing. If the field gets too high during wet seasons, rise the mower and cut off a fourth to a half of the present growth. Then lower the mower to its proper height and mow again in a day or two.
3. Rake, bag, and remove the clippings when harvesting is required. If prolonged periods of rainfall prevent mowing, clippings may be long enough to shade or smother the grass. In this case, rake, bag, and remove clippings. Collected clippings can be used as mulch around trees and shrubs or added to compost.

Fertilization

As recommended above, it's best to submit a soil sample for testing when establishing a new field to determine how much lime fertilizer should be added to your soil. Fertilize before planting. Apply fertilizer and lime when soil is prepared based on these guidelines:

If you obtained a soil test: Apply the amount of lime and fertilizer recommended for your soil by the soil testing laboratory.

1. Apply 75 pounds of ground limestone per 1,000 sq ft.
2. Apply a starter type fertilizer (one that is high in phosphorous based on the type of grass and the planting method. Fertilizer bags have a three-number system indicating the primary nutrients, such as 8-8-8 or 5-10-10. These numbers denote the N-P-K ratio – the percentage of each nutrient in a fertilizer. The percentages are always noted in the following order:
 - a. N Nitrogen for green color and growth
 - b. P₂O₅ Phosphorous for good establishment and rooting
 - c. K₂O Potassium to enhance past and environmental stress tolerance.

Some common examples of starter type fertilizers required for a 1,000 sq ft area include 40 pounds of 5-10-10, 20 pounds of 10-20-20, or 16 pounds of 18-24-6. For sandy soils, fertilizer rates should be increased by 20 percent.

APPENDIX O

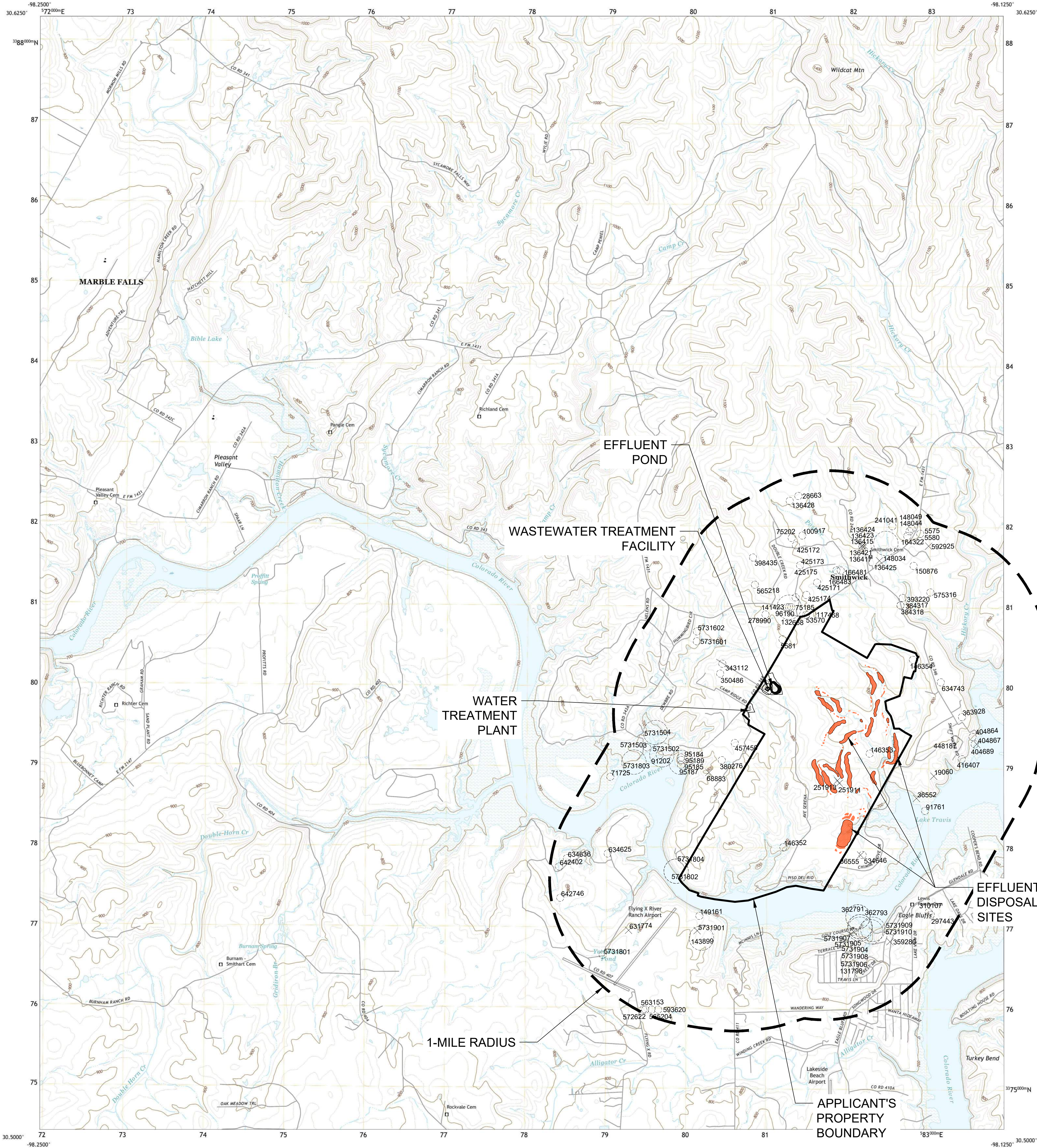
USGS WELL MAP AND WELL INFORMATION



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

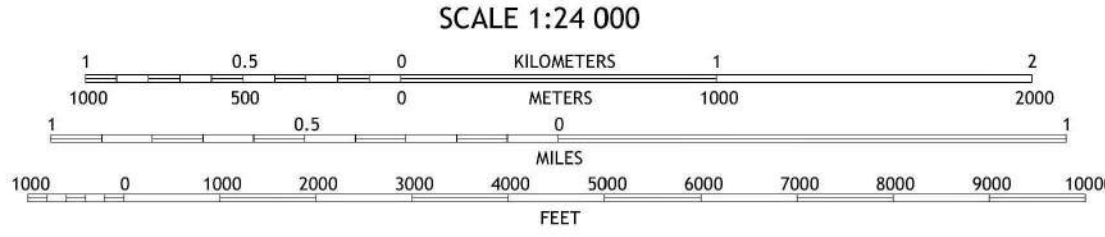
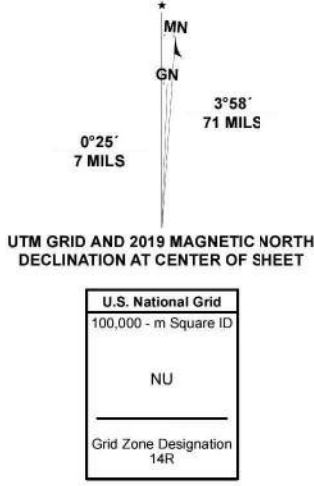


SMITHWICK QUADRANGLE
TEXAS - BURNET COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contour.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Longhorn Cavern
2 Horns Hill
3 Bertram
4 Marble Falls
5 Travis Peak
6 Round Mountain
7 Spicewood
8 Pace Bend

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

SMITHWICK, TX
2022

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
5731502	131798		30.541945	-98.169167	Public Supply	Unknown	Unknown	500' Buffer Zone
5731504			30.544445	-98.17	Unused	Unknown	Unknown	150' Buffer Zone
5731802			30.528889	-98.167222	Public Supply	Unknown	Open	500' Buffer Zone
5731804			30.528889	-98.167222	Public Supply	Unknown	Unknown	500' Buffer Zone
5731602			30.555834	-98.164723	Unused	Unknown	Unknown	150' Buffer Zone
5731901			30.522222	-98.164445	Plugged or Destroyed	No	Plugged	Plugging
5731905			30.522222	-98.144167	Unused	Unknown	Unknown	150' Buffer Zone
5731801			30.519444	-98.176667	Domestic	Unknown	Unknown	150' Buffer Zone
5731910			30.522222	-98.141945	Public Supply	Unknown	Unknown	500' Buffer Zone
5731503			30.542778	-98.171111	Public Supply	Unknown	Unknown	500' Buffer Zone
5731907			30.522222	-98.144167	Plugged or Destroyed	No	Plugged	Plugging
5731909			30.5225	-98.141667	Public Supply	Unknown	Unknown	500' Buffer Zone
5731904			30.5225	-98.143334	Public Supply	Unknown	Cased	500' Buffer Zone
5731906			30.522778	-98.143334	Public Supply	Unknown	Unknown	500' Buffer Zone
5731908			30.522778	-98.143334	Public Supply	Unknown	Unknown	500' Buffer Zone
5731601			30.554723	-98.164723	Unused	Unknown	Unknown	150' Buffer Zone
5731803			30.541111	-98.172778	Public Supply	Unknown	Unknown	500' Buffer Zone
5732401			30.556112	-98.120278	Public Supply	Unknown	Unknown	500' Buffer Zone
	5575	107449	30.566944	-98.135834	Domestic	Unknown	Cased	150' Buffer Zone
	5580		30.566112	-98.135834	Domestic	Unknown	Cased	150' Buffer Zone
	5581		30.555001	-98.153612	Domestic	Unknown	Cased	150' Buffer Zone
	19060		30.539722	-98.133889	Domestic	No	Plugged	Plugging
	28663		30.571111	-98.151667	Domestic	Unknown	Cased	150' Buffer Zone
	36552	109199	30.537222	-98.136111	Domestic	No	Plugged	Plugging
	36555	109200	30.530833	-98.143334	Domestic	No	Plugged	Plugging
	53570	112663	30.557778	-98.150556	Domestic	Unknown	Cased	150' Buffer Zone
	68883		30.54	-98.163056	Test Well	No	Plugged	Plugging
	71725		30.539445	-98.175833	Domestic	Unknown	Open	150' Buffer Zone
	75185		30.558612	-98.152501	Test Well	Unknown	Open	150' Buffer Zone
	75202		30.566389	-98.152501	Test Well	Unknown	Back Filled	150' Buffer Zone
	91202		30.541945	-98.169444	Domestic	Unknown	Filter Packed	150' Buffer Zone
	91761		30.535834	-98.135	Domestic	Unknown	Back Filled	150' Buffer Zone
	95184		30.541667	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone
	95185		30.541111	-98.166667	Public Supply	Unknown	Back Filled	500' Buffer Zone
	95187		30.540834	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
	95189		30.541389	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone
	96190		30.558612	-98.152778	Domestic	Unknown	Filter Packed	150' Buffer Zone
	100917		30.566667	-98.151112	Domestic	Unknown	Back Filled	150' Buffer Zone
	117468		30.557778	-98.149722	Domestic	Unknown	Cased	150' Buffer Zone
	131798		30.522778	-98.143334	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	132668		30.558612	-98.152778	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	136415		30.565556	-98.143334	Domestic	Unknown	Filter Packed	150' Buffer Zone
	136417	119952	30.565556	-98.143056	Domestic	No	Plugged	Plugging
	136421	119953	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136423	119954	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136424	119955	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136425	119956	30.563889	-98.141111	Domestic	No	Plugged	Plugging
	136428		30.570555	-98.152778	Domestic	Unknown	Cased	150' Buffer Zone
	141423		30.558612	-98.153056	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	143899		30.521389	-98.163889	Domestic	No	Open	150' Buffer Zone
	146352		30.531667	-98.153334	Test Well	Unknown	Unknown	150' Buffer Zone
	146353		30.542222	-98.142222	Test Well	Unknown	Unknown	150' Buffer Zone
	146354		30.552778	-98.136667	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	148034		30.565834	-98.140278	Domestic	Unknown	Cased	150' Buffer Zone
	148044		30.567222	-98.137222	Domestic	Unknown	Unknown	150' Buffer Zone
	148049		30.5675	-98.136945	Domestic	Unknown	Unknown	150' Buffer Zone
	149161		30.523889	-98.164167	Domestic	Unknown	Open	150' Buffer Zone
	150876		30.563334	-98.136667	Domestic	Unknown	Cased	150' Buffer Zone
	164322		30.566667	-98.1375	Domestic	Unknown	Unknown	150' Buffer Zone
	166481		30.562778	-98.146111	Domestic	Unknown	Filter Packed	150' Buffer Zone
	166483		30.562778	-98.146667	Domestic	Unknown	Filter Packed	150' Buffer Zone
	241041		30.567778	-98.139445	Domestic	Unknown	Open	150' Buffer Zone
	251911	130850	30.538889	-98.146111	Test Well	No	Plugged	Plugging
	251913	130851	30.539167	-98.146389	Test Well	No	Plugged	Plugging
	278990		30.557778	-98.155834	Domestic	No	Open	Plugging
	297443		30.524167	-98.134167	Irrigation	Unknown	Cased	150' Buffer Zone
	310107		30.524444	-98.134445	Domestic	Unknown	Cased	150' Buffer Zone
	343112		30.552223	-98.161389	Domestic	Unknown	Cased	150' Buffer Zone
	350486		30.551112	-98.161667	Domestic	Unknown	Unknown	150' Buffer Zone
	359280	93544	30.521111	-98.139445	Test Well	Unknown	Filter Packed	150' Buffer Zone

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
	362791	151852	30.523889	-98.143611	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	362793		30.523889	-98.143611	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	363928		30.546389	-98.130278	Domestic	Unknown	Cased	150' Buffer Zone
	380276		30.541389	-98.161389	Test Well	Unknown	Open	150' Buffer Zone
	384317		30.558889	-98.138334	Domestic	Unknown	Cased	150' Buffer Zone
	384318		30.558889	-98.138334	Domestic	Unknown	Cased	150' Buffer Zone
	393220		30.559723	-98.138056	Domestic	Unknown	Unknown	150' Buffer Zone
	398435		30.564167	-98.157501	Irrigation	Unknown	Cased	150' Buffer Zone
	404689		30.543334	-98.128611	Irrigation	Unknown	Cased	150' Buffer Zone
	404864		30.544167	-98.128889	Irrigation	Unknown	Cased	150' Buffer Zone
	404867		30.543334	-98.128333	Irrigation	No	Plugged	Plugging
	416407		30.541667	-98.130278	Domestic	Unknown	Cased	150' Buffer Zone
	425171		30.561389	-98.149167	Domestic	Unknown	Cased	150' Buffer Zone
	425172		30.565556	-98.151944	Domestic	Unknown	Cased	150' Buffer Zone
	425173		30.563333	-98.151389	Domestic	Unknown	Cased	150' Buffer Zone
	425174		30.56	-98.150556	Domestic	No	Back Filled	150' Buffer Zone
	425175		30.559722	-98.151944	Domestic	Unknown	Cased	150' Buffer Zone
	448187		30.543889	-98.131111	Domestic	Unknown	Cased	150' Buffer Zone
	457450		30.543333	-98.159722	Irrigation	Unknown	Cased	150' Buffer Zone
	534646		30.530833	-98.143056	Domestic	Unknown	Cased	150' Buffer Zone
	563153		30.513333	-98.171111	Unknown	Unknown	Unknown	150' Buffer Zone
	565204		30.513333	-98.170278	Unknown	Unknown	Unknown	150' Buffer Zone
	565218		30.561111	-98.157222	Domestic	Unknown	Cased	150' Buffer Zone
	572622		30.513333	-98.171389	Unknown	Unknown	Unknown	150' Buffer Zone
	575316		30.560361	-98.134469	Domestic	Unknown	Open	150' Buffer Zone
	592925	215127	30.565556	-98.134722	Domestic	No	Plugged	Plugging
	593620	227438	30.513333	-98.169444	Unknown	Unknown	Unknown	150' Buffer Zone
	631774		30.522222	-98.173333	Test Well	No	Plugged	Plugging
	634625		30.530833	-98.176111	Test Well	No	Back Filled	150' Buffer Zone
	634636		30.530278	-98.181389	Test Well	Unknown	Back Filled	150' Buffer Zone
	634743		30.550278	-98.133056	Unknown	Unknown	Unknown	150' Buffer Zone
	642402		30.52934	-98.18241	Test Well	Unknown	Unknown	150' Buffer Zone
	642746		30.525833	-98.182222	Test Well	Yes	Filter Packed, Cased	150' Buffer Zone
		55068	30.542778	-98.171389	Withdrawal of Water	No	Plugged	Plugging
		38418	30.567222	-98.136667	Withdrawal of Water	No	Plugged	Plugging

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	5731502
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.541945
Latitude (degrees minutes seconds)	30° 32' 31" N
Longitude (decimal degrees)	-98.169167
Longitude (degrees minutes seconds)	098° 10' 09" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	110AVFV - Alluvium and Fluvial Terrace Deposits
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	704
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	47
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	8/8/1976
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Camp of the Hills Nelson Lewis
Driller	Wilmer McDonald
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	G0270110A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	8/2/2000
Last Update Date	9/27/2010

Remarks Owners well #1. PWS ID #0270110A.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Plastic (PVC)			0	24
5	Screen				24	47

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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/gwdb rpt.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 (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-503**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

State Well Number	5731503
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.542778
Latitude (degrees minutes seconds)	30° 32' 34" N
Longitude (decimal degrees)	-98.171111
Longitude (degrees minutes seconds)	098° 10' 16" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	691
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #2)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/11/2016

Remarks

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-504**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

State Well Number	5731504
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.544445
Latitude (degrees minutes seconds)	30° 32' 40" N
Longitude (decimal degrees)	-98.17
Longitude (degrees minutes seconds)	098° 10' 12" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	682
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	140
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #3)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045C
Groundwater Conservation District Well Number	
Owner Well Number	3
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Abandoned PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-601**

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Well Basic Details

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State Well Number	5731601
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.554723
Latitude (degrees minutes seconds)	30° 33' 17" N
Longitude (decimal degrees)	-98.164723
Longitude (degrees minutes seconds)	098° 09' 53" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	820
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #4)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045D
Groundwater Conservation District Well Number	
Owner Well Number	4
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Unused PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-602**

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Well Basic Details

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State Well Number	5731602
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.555834
Latitude (degrees minutes seconds)	30° 33' 21" N
Longitude (decimal degrees)	-98.164723
Longitude (degrees minutes seconds)	098° 09' 53" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	816
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #5)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045E
Groundwater Conservation District Well Number	
Owner Well Number	5
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Unused PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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[Well Basic Details](#)
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State Well Number	5731801
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.519444
Latitude (degrees minutes seconds)	30° 31' 10" N
Longitude (decimal degrees)	-98.176667
Longitude (degrees minutes seconds)	098° 10' 36" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	775
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	620
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1956
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Unknown
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	Texas Water Development Board
Created Date	7/31/1985
Last Update Date	10/9/2009

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/11/1985 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Ellenburger Group

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		338	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		412.48	mg/L	
00910	CALCIUM (MG/L)		111	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		359	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		20	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.57	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.34		
00932	SODIUM, CALCULATED, PERCENT		8	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		15	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		790	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		18	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		411	mg/L	

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

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[Well Basic Details](#)
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State Well Number	5731802
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.528889
Latitude (degrees minutes seconds)	30° 31' 44" N
Longitude (decimal degrees)	-98.167222
Longitude (degrees minutes seconds)	098° 10' 02" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	739
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	188
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/28/1984
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	GCD Current Site Visit
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Vista Del Rio Well #1
Driller	Western Water Wells
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	G0270082A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/29/1995
Last Update Date	7/11/2016

Remarks Reported yield 40 GPM. Cemented from 0 to 19 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	19
7	Open Hole				19	188

Well Tests - No Data

Lithology - No Data

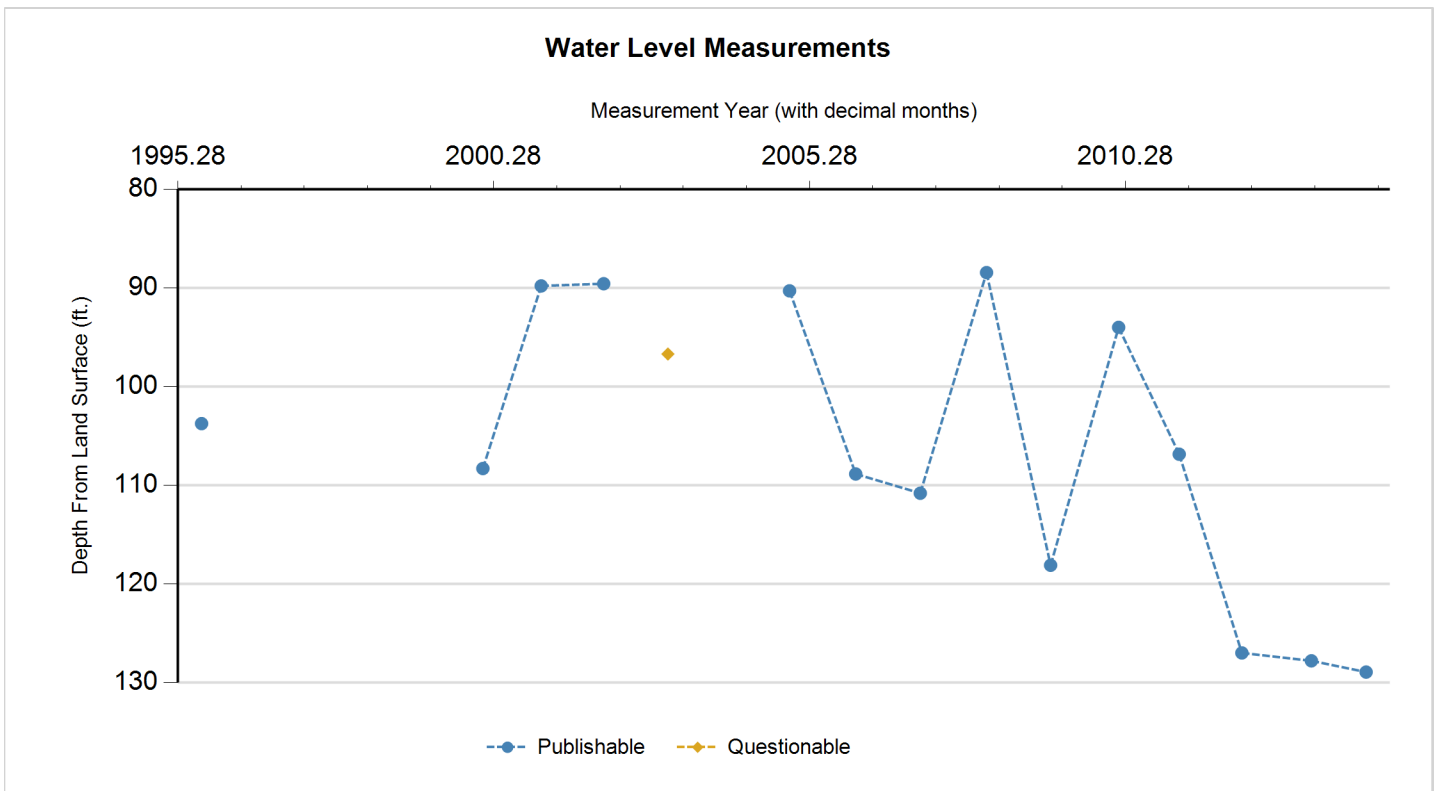
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



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	8/29/1995		103.75		635.25	1	Texas Water Development Board	Steel Tape		
X	1/11/1996					1	Texas Water Development Board		37	
X	11/22/1996					1	Texas Water Development Board		19	
X	1/28/1998					1	Texas Water Development Board		19	
X	2/24/1999					1	Texas Water Development Board		19	
P	2/9/2000		108.3		630.7	1	Texas Water Development Board	Steel Tape		
P	1/11/2001		89.8	(18.50)	649.2	1	Texas Water Development Board	Steel Tape		
P	1/7/2002		89.58	(0.22)	649.42	1	Texas Water Development Board	Steel Tape		
Q	1/13/2003		96.7	7.12	642.3	1	Texas Water Development Board	Steel Tape	4	
X	1/26/2004					1	Texas Water Development Board		19	
P	12/21/2004		90.3		648.7	1	Texas Water Development Board	Steel Tape		
P	1/3/2006		108.85	18.55	630.15	1	Texas Water Development Board	Steel Tape		
P	1/11/2007		110.8	1.95	628.2	1	Texas Water Development Board	Steel Tape		
P	1/29/2008		88.45	(22.35)	650.55	1	Groundwater Conservation District	Steel Tape		
P	2/4/2009		118.1	29.65	620.9	1	Groundwater Conservation District	Steel Tape		
P	3/2/2010		94	(24.10)	645	1	Groundwater Conservation District	Electric Line		
P	2/17/2011		106.85	12.85	632.15	1	Groundwater Conservation District	Electric Line		
P	2/14/2012		126.98	20.13	612.02	1	Groundwater Conservation District	Electric Line		

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-802

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	3/21/2013		127.78	0.80	611.22	1	Groundwater Conservation District	Electric Line		
P	2/2/2014		128.92	1.14	610.08	1	Groundwater Conservation District	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
4	Well pumped recently
19	Well pumping
37	No measurement due to admin decision

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-803**

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[Well Basic Details](#)
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State Well Number	5731803
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.541111
Latitude (degrees minutes seconds)	30° 32' 28" N
Longitude (decimal degrees)	-98.172778
Longitude (degrees minutes seconds)	098° 10' 22" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	696
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	120
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	1/1/1972
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #1)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/11/2016

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731804
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.528889
Latitude (degrees minutes seconds)	30° 31' 44" N
Longitude (decimal degrees)	-98.167222
Longitude (degrees minutes seconds)	098° 10' 02" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	739
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	190
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	2/25/1985
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Vista Del Rio Well #2
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270082B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/29/1995
Last Update Date	9/22/2010

Remarks Unable to locate drillers log. Owners well #2. PWS ID #0270082B.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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[Well Basic Details](#)
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State Well Number	5731901
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.164445
Longitude (degrees minutes seconds)	098° 09' 52" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	780
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	525
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/13/1979
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Western Water Wells
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	7/30/1985
Last Update Date	10/9/2009

Remarks Destroyed. Encountered salt water at 370 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank	Plastic (PVC)			0	8
8	Open Hole				8	10
7	Open Hole				10	525

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731904
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.5225
Latitude (degrees minutes seconds)	30° 31' 21" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	72
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	10/10/2003
Drilling Method	Reverse Circulation
Borehole Completion	Gravel Pack w/Screen

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)	63
Power Type	Electric Motor
Annular Seal Method	Grout
Surface Completion	Surface Slab Installed
Owner	LCRA Spicewood Beach Well #4
Driller	Brien Water Wells
Other Data Available	Drillers Log
Well Report Tracking Number	131798
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011E
Groundwater Conservation District Well Number	
Owner Well Number	4
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	12/29/2008
Last Update Date	7/13/2016

Remarks Gravel packed from 43 to 72 ft. Measured yield 7.5 GPM with 13 feet drawdown after pumping 5 hours in 2003. Specific capacity 0.58 GPM/ft. Pumping level 40 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Plastic (PVC)			0	53
12	Screen	Stainless Steel			53	65
12	Blank	Plastic (PVC)			65	69

Well Tests

Test Date	Test Type	Yield (gallons per minute)	Drawdown (ft.)	Test Hours
2003-10-10	Unknown	7.5	13	5+

Lithology

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	47	Clay and Silt
47	64	Gravel with Hard Rock Shelf
64	70	Shale

Annular Seal Range - No Data

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-904

Borehole

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
28	0	64
20	64	72

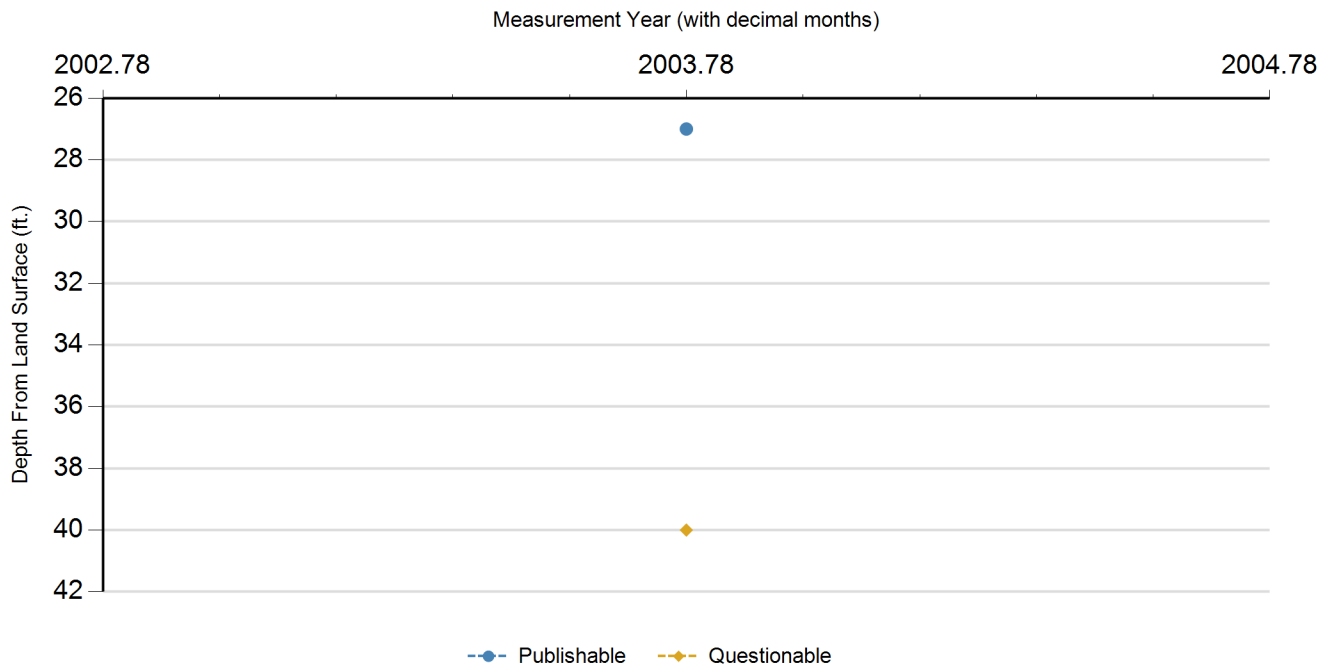
Plugged Back - No Data

Filter Pack

Filter Material	Top Depth (ft.)	Bottom Depth (ft.)	Size
Gravel	43	72	

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/16/2003		27		659	1	Registered Water Well Driller	Unknown		
Q	10/16/2003		40	13.00	646	2	Registered Water Well Driller	Unknown	2	

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
2	Pumping-level measurement

Water Quality Analysis - No Data Available

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State Well Number	5731905
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.144167
Longitude (degrees minutes seconds)	098° 08' 39" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	703
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	70
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	7/19/2016

Remarks	Capped PS well.
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731906
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522778
Latitude (degrees minutes seconds)	30° 31' 22" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	70
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #2
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	7/11/2016

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731908
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522778
Latitude (degrees minutes seconds)	30° 31' 22" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	64
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	5/7/2002
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #3A
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011D
Groundwater Conservation District Well Number	
Owner Well Number	3A
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	9/2/2010

Remarks	Owners well #3A. PWS ID #0270011D.
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-909**

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Well Basic Details

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State Well Number	5731909
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.5225
Latitude (degrees minutes seconds)	30° 31' 21" N
Longitude (decimal degrees)	-98.141667
Longitude (degrees minutes seconds)	098° 08' 30" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Third Party
Land Surface Elevation (feet above sea level)	699
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	60
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Eagle Bluff Subdivision (Well #1)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270063A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/16/2010
Last Update Date	7/11/2016

Remarks Aquifer assigned by TCWQ.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-910**

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Well Basic Details

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State Well Number	5731910
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.141945
Longitude (degrees minutes seconds)	098° 08' 31" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Third Party
Land Surface Elevation (feet above sea level)	703
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	60
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Eagle Bluff Subdivision (Well #2)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270063B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/16/2010
Last Update Date	7/11/2016

Remarks Aquifer assigned by TCEQ.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5732401
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.556112
Latitude (degrees minutes seconds)	30° 33' 22" N
Longitude (decimal degrees)	-98.120278
Longitude (degrees minutes seconds)	098° 07' 13" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GLRSL - Glen Rose Limestone, Lower Member
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	763
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	45
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	5/21/1993
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Camp Balcones Springs Well #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270109A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/27/2010
Last Update Date	9/27/2010

Remarks	Owners well #1. PWS ID #0270109A.
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #5575

Owner:	K. LINVEL BAKER	Owner Well #:	1
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 34' 01" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 2/19/2002 Drilling End Date: 2/19/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): 300

Distance to Septic Tank (ft.): No Data

Method of Verification: ESTIMATED

Surface Completion: Surface Sleeve Installed

Water Level:	95 ft. below land surface on 2002-02-20	Measurement Method:	Unknown
Packers:	POOR BOY 24'		
Type of Pump:	No Data		
Well Tests:	Estimated	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
25, 68, 145, 165	360 TDS, 14 GRAINS

Chemical Analysis Made: **Yes**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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**License Number: **1595**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	4	YELLOW CALICHE
4	12	RED SHALE & CLAY
12	40	BROWN SANDSTONE
25	40	WATER 0.5 GPM
40	68	RED CLAY WITH WHITE LIMESTONE
68	74	RED & WHITE SANDSTONE
68	74	WATER 2.5 GPM
74	95	GRAY LIMESTONE WITH SHALE STREAKS
95	123	GRAY CLAY & SHALE
123	134	RED CLAY
134	175	WHITE, RED & BROWN LIMESTONE
145	165	WATER 2 GPM
165	175	WATER TRACE
175	205	GRAY SHALE & CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

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 #5580

Owner:	K. LINVEL BAKER	Owner Well #:	2
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 33' 58" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
---------------	----------	---------------	----------

Drilling Start Date: 2/20/2002 Drilling End Date: 2/20/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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: 104 ft. below land surface on 2002-02-20 Measurement Method: Unknown

Packers: POOR BOY 24'

Type of Pump: No Data

Well Tests: Estimated Yield: 5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
26, 49, 65, 123, 158	340 TDS, 13 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**

**DRAWER 217
HYE, TX 78635**

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	13	YELLOW CALICHE
13	26	RED SHALE
26	36	BROWN SAND
26	36	WATER 1.5 GPM
36	49	RED CLAY & SHALE
49	65	WATER 1 GPM
49	70	WHITE & RED SANDSTONE
65	70	WATER 1 GPM
70	75	YELLOW SHALE
75	94	GRAY LIMESTONE
94	110	GRAY CLAY & SHALE
110	123	BROWN CLAY
123	139	SANDY YELLOW, WHITE & RED LIMESTONE
123	139	WATER 1 GPM
139	152	RED CLAY
152	174	SANDY WHITE, YELLOW & RED LIMESTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

158	174	WATER 0.5 GPM
174	182	BROWN SHALE
182	205	GRAY SHALE

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #5581

Owner:	OLLIE BAKER	Owner Well #:	1
Address:	300 CR 344 MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	300 CR 344 MARBLE FALLS, TX 78654	Latitude:	30° 33' 18" N
Well County:	Burnet	Longitude:	098° 09' 13" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/20/2002** Drilling End Date: **2/20/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	165

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	30	2

Seal Method: **GRAVITY CEMENTED**

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

Sealed By: **Driller**

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: **124 ft. below land surface on 2002-02-20** Measurement Method: **Unknown**

Packers: **POOR BOY 30'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39, 88, 105	460 TDS, 17 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	39	RED CLAY
39	45	WATER 1 GPM
39	58	GRAY SANDSTONE
58	88	GRAY CLAY
88	105	WATER TRACE
88	122	RED, WHITE & YELLOW LIMESTONE
105	122	WATER TRACE
122	129	YELLOW SHALE & LIMESTONE
129	165	GRAY SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 40 .265
5	NEW	PLASTIC SLOTTED	40 130 .265
5	NEW	PLASTIC SOLID	130 165 .265

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P.O. Box 12157
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #19060

Owner: **LEONARD HILT**

Owner Well #: **001**

Address: **1901 RED FOX RD.
AUSTIN, TX 78734**

Grid #: **57-31-9**

Well Location: **LOT 40 CHIMNEY COVES
MARBLE FALLS, TX**

Latitude: **30° 32' 23" N**

Longitude: **098° 08' 02" W**

Well County: **Williamson**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #107449

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/5/2003**

Drilling End Date: **3/5/2003**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9.875	0	13
8	13	250

Drilling Method: **Air Rotary**

Borehole Completion:

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Unknown**

Water Level: **0 ft. below land surface on No Data**

Measurement Method: **Unknown**

Packers: **NONE**

Type of Pump: **NONE**

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

Well Tests: **Jetted** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
0 0 0 2 CEM 2		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	40	RED SAND
40	115	GREY LIMESTONE
115	250	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
NONE			

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STATE OF TEXAS WELL REPORT for Tracking #28663

Owner: **Richard Giesecke**

Owner Well #: **3**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1.1 miles down Double Creek Road
from RR 1431
Marble Falls, TX 78654**

Latitude: **30° 34' 16" N**

Longitude: **098° 09' 06" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/4/2003**

Drilling End Date: **11/4/2003**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.62	0	20
6.75	20	204

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	33	2 - cement

Seal Method: **gravity cemented**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **300**

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **30 ft. below land surface on 2003-11-04**

Measurement Method: **Unknown**

Packers: **poor boy 33'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 16 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
30,120, 140, 160	n/a

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: **L & L Drilling Co.****Drawer 217
Hye, TX 78635**Driller Name: **Gregory A. Smith**License Number: **1595**Apprentice Name: **Lynette Smith**Apprentice Number: **WWDAPP00001
264**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	6	brown clay
6	17	yellow caliche
17	36	brown & yellow sand
30	40	water 10 gpm
36	40	white limestone
40	51	red clay
51	69	gray & red clay
69	75	white & yellow sandstone
75	96	gray sandy limestone
96	112	gray clay & shale
112	120	red clay
120	128	white & red sandy limestone
120	140	water 1 gpm
128	179	white & brown limestone
140	160	water 2 gpm
160	180	water 3 gpm

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 -- 34 .265
5	new	plastic slotted	34 -- 44 .265
5	new	plastic solid	44 -- 74 .265
5	new	plastic slotted	74 -- 104 .265
5	new	plastic solid	104 -- 124 .265
5	new	plastic slotted	124 -- 184 .265
5	new	plastic solid	184 -- 204 .265

179	185	brown & yellow shale
185	204	gray shale

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

STATE OF TEXAS WELL REPORT for Tracking #36552

Owner: **MARION SHIPMAN #1** Owner Well #: **01**
Address: **PO BOX 1119** Grid #: **57-31-9**
CEDAR PARK, TX 78630
Well Location: **CHIMNEY COVE ESTATES** Latitude: **30° 32' 14" N**
SMITHWICK, TX Longitude: **098° 08' 10" W**
Well County: **Burnet** Elevation: **707 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #109199

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/17/2004** Drilling End Date: **3/17/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	190

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

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

Sealed By: **GREG SVETLIK**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NONE**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	0 - 2 CEMENT		
	2 - 190 CUTTINGS		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	TOPSOIL
1	20	RED CLAY
20	25	FLINT W/ CLAY
25	35	BROWN SAND & GRAVEL
35	45	BROWN / GREY SHALE
45	189	SANDY GREY SHALE
189	190	DOLOMITE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
NONE			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #36555

Owner: **MARION SHIPMAN #2** Owner Well #: **02**
Address: **PO BOX 1119** Grid #: **57-31-9**
CEDAR PARK, TX 78630
Well Location: **CHIMNEY COVE ESTATES** Latitude: **30° 31' 51" N**
SMITHWICK, TX Longitude: **098° 08' 36" W**
Well County: **Burnet** Elevation: **717 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #109200

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/18/2004** Drilling End Date: **3/18/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	50

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

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

Sealed By: **GREG SVETLIK**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NONE**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	0 - 3 CEMENT		
	3 - 50 CUTTINGS		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	SANDY LOAM
5	20	RED CLAY
20	28	GRAVEL BAR
28	33	SAND BAR
33	50	GRAVEL BAR

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
NONE			

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #68883

Owner: **PHILLIP JOSEPH**

Owner Well #: **No Data**

Address: **2904 Richard Lane
Austin, TX 78703**

Grid #: **57-31-9**

Well Location: **Smithwick (near Narrows)
Marble Falls, TX 78654**

Latitude: **30° 32' 24" N**

Longitude: **098° 09' 47" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #112663

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **9/22/2005**

Drilling End Date: **9/22/2005**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	15
6	15	300

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **N/A**

Sealed By: **N/A**

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

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

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

Method of Verification: **Owner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Western Water Wells**
500 Southland Drive
Burnet, TX 78611

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top soil
1	90	Caliche & gravel & clay
90	300	Crystal lime

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N/A			

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STATE OF TEXAS WELL REPORT for Tracking #71725

Owner:	KENNY LEWIS #5	Owner Well #:	No Data
Address:	PO BOX 1090 LIBERTY HILL, TX 78642	Grid #:	57-31-8
Well Location:	END OF CR 343A MARBLE FALLS, TX 78654	Latitude:	30° 32' 22" N
Well County:	Burnet	Longitude:	098° 10' 33" W
		Elevation:	1003 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 10/4/2005 Drilling End Date: 10/5/2005

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	90

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	2	2 CEMENT
	2	10	2 HOLE PLUG

Seal Method: SLURRIED & POURED

Sealed By: Driller

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level:	26 ft. below land surface on 2005-10-06	Measurement Method:	Unknown
Packers:	NEOPRENE 10 NEOPRENE 40		
Type of Pump:	Submersible	Pump Depth (ft.):	60
Well Tests:	Jetted	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	40	BROWN CLAY
40	60	SAND
60	90	SANDSTONE W/B 5 GPM

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 65
4.5	NEW	SCREEN MFG.	65 - 85 .50
4.5	NEW	PLASTIC	85 - 90

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 #75185

Owner: **Waterford Club Development**

Owner Well #: **1**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 09" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **8/15/2005**

Drilling End Date: **8/15/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15-17 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
29 - 91	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **Amended 2/2/06 Ref.#2900**

Report Amended on by Request #2900

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Sand
2	29	Tan Sandstone
29	42	Tan Gravel H2O
42	60	Red Clay
60	70	Sandy Tan Clay
70	83	Grey Sandstone
83	91	Tan-Grey Limestone
91	120	Grey Clay
120	150	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #75202

Owner: **Waterford Club Development**

Owner Well #: **2**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 33' 59" N**

Longitude: **098° 09' 09" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **8/16/2005**

Drilling End Date: **8/16/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	130

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole; Back Filled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
80 - 121	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **Dry Well - Back Filled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	12	Sand with Clay
12	27	Tan Clay
27	30	Tan Gravel-Sand
30	35	Grey Sandstone
35	50	Grey-Tan Limestone
50	76	Grey Clay
76	80	Red Sandstone
80	121	Gravel
121	130	Tan Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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

STATE OF TEXAS WELL REPORT for Tracking #91202

Owner: **Linda Lewis**

Owner Well #: **1**

Address: **5500 Hwy 281 N
Marble Falls, TX 78654**

Grid #: **57-31-5**

Well Location: **1542 CR 344
Marble Falls, TX 78654**

Latitude: **30° 32' 31" N**

Longitude: **098° 10' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/29/2006**

Drilling End Date: **7/30/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	58

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	10	58	Gravel	3/8 Pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	3 of Portland

Seal Method: **Slurry**

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

Sealed By: **Apex Drilling, Inc.**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
44-48	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Micheal G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	44	Sandy Loam Clay
44	48	Gravel
48	58	Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5" (5" OD)	New	PVC	+2 to 38' Sch40
4.5" (5" OD)	New	Slotted PVC	38' to 58' .035

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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 #91761

Owner: **Marion Shipman**

Owner Well #: **No Data**

Address: **PO Box 1119
Cedar Park, TX 78630**

Grid #: **57-31-9**

Well Location: **CR 346
Bertram, TX 78605**

Latitude: **30° 32' 09" N**

Longitude: **098° 08' 06" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/20/2006**

Drilling End Date: **6/20/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	62

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **Backfilled w/ 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	42	Sandy Loam
42	55	Tan Clay
55	62	Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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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 #95184

Owner: **Lower Colorado River Authority**

Owner Well #: **1**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-5**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 30" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **6/13/2006**

Drilling End Date: **6/13/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	45

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
13-24	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **Backfilled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	13	Sandy Loam-Clay
13	24	Gravel-Dry
24	32	Tan Clay
32	45	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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 #95185

Owner: **Lower Colorado River Authority**

Owner Well #: **2**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-8**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 28" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **6/13/2006**

Drilling End Date: **6/13/2006**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9.875	0	77

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
30	77	Gravel	3/8 Pea Gr

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	30	7 of Portland

Seal Method: **Pressure Trimmie**

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

Sealed By: **Apex Drilling, Inc**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 6 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
46-49	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **Amended 5/2/08 Ref.#5886**
Amended 6/25/08 Ref.#6073

Report Amended on by Request #5886

Report Amended on by Request #6073

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	9	Loam-Clay
9	15	Sandy-Loam
15	46	Sand-Clay
46	77	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6"	New	PVC	+2' to 40' SDR17
6"	New	Slotted	40' to 50' Johnsons Screen .035
6"	New	PVC	50' to 70' SDR17

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

STATE OF TEXAS WELL REPORT for Tracking #95189

Owner: **Lower Colorado River Authority**

Owner Well #: **4**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-8**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 29" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **6/20/2006**

Drilling End Date: **6/20/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	48

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **Backfilled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	22	Clay-Loam
22	47	Loam
47	48	Sandy Clay
48	62	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #96190

Owner: **Waterford Club Development**

Owner Well #: **No Data**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/16/2006**

Drilling End Date: **9/16/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	150

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	20	150	Gravel	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 17 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
120-146	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	Sand
5	25	Tan Sandstone
25	43	Gravel
43	60	Red Clay
60	70	Tan Sandstone
70	83	Grey Sandstone
83	91	Tan Grey Limestone
91	120	Grey Clay
120	146	Gravel
146	150	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 120' SDR17
4.5" (5" OD)	New	Slotted PVC	120' to 150' .035

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 #100917

Owner: **Waterford Club Development**

Owner Well #: **1**

Address: **10516 FM 1431 E
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 34' 00" N**

Longitude: **098° 09' 04" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/26/2006**

Drilling End Date: **11/26/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	10
	6	10	155

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
95 - 120	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J. Johnson** License Number: **54989**

Comments: **Backfilled with 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	10	Tan Clay
10	25	Red Clay
25	32	White Limestone
32	53	Tan-Grey Limestone
53	76	Grey Clay
76	95	Red Sandstone with Clay
95	120	Gravel
120	135	Tan Clay
135	155	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
N/A			

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 #117468

Owner: **Sam Cox**

Owner Well #: **No Data**

Address: **10507 E FM1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10507 E FM1431
Marble Falls, TX 78654**

Latitude: **30° 33' 28" N**

Longitude: **098° 08' 59" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/10/2007**

Drilling End Date: **4/10/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	157

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Neoprene 39', 30', 20'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 10 - 11 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39-137	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	Sand
12	18	Tan Sandstone
18	20	Tan Clay
20	30	Red Clay
30	39	Red Clay-White Limestone
39	45	Sand
45	50	White-Red Sandstone
50	74	Grey Sandstone
74	99	Clay
99	107	Red Sandstone
107	137	Gravel
137	157	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 57' Sch40
4.5" (5" OD)	New	Slotted PVC	57' to 77' .035
4.5" (5" OD)	New	PVC	77' to 117' Sch40
4.5" (5" OD)	New	Slotted PVC	117' to 137' .035
4.5" (5" OD)	New	PVC	137' to 157' Sch40

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**Texas Department of Licensing and Regulation
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #131798

Owner: **LCRA**

Owner Well #: **Well #4**

Address: **P. O. Box 220
Austin, TX 78767**

Grid #: **57-31-9**

Well Location: **Spicewood Beach, TX**

Latitude: **30° 31' 22" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **10/9/2003**

Drilling End Date: **10/10/2003**

Plans Approved by TCEQ - **NO**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
28	0	64
20	64	72

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
43	72	Gravel	

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	43	140

Seal Method: **Grout**

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

Sealed By: **Driller**

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **27 ft. below land surface on 2003-10-16**

Measurement Method: **Unknown**

Packers: **n/a**

Type of Pump: **Submersible**

Pump Depth (ft.): **63**

Well Tests: **Unknown**

Yield: 7.5 GPM with 13 ft. drawdown after 5+ hours

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **Yes**

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: **Brien Water Wells**
Rt. 1, Box 702
Hearne, TX 77859

Driller Name: **Jeff Brien**

License Number: **4470**

Comments: **\$dfs**
Assigned SWN 57-31-904 by TWDB on 12/29/08.

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	47	Clay and Silt
47	64	Gravel with Hard Rock Shelf
64	70	Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
12	New	Certalok PVC	+2 53
12	New	S.S. Rodbase Scrn.	53 65 .125
12	New	S.S. Blank	65 69

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Texas Department of Licensing and Regulation
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #136415

Owner: **Smithwick Cemetery Association**

Owner Well #: **1**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	197
	6.75	197	202

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	57	197	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	57	20 cement

Seal Method: **trimmie pipe pressure
cemented**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

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

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

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **40 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
62	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	15	yellow sand
15	22	red shale
22	29	yellow sand & gravel
29	58	red clay
58	67	brown sand
62	82	water 2 gpm
67	94	gray limestone
94	132	gray clay
132	151	brown gravel & red shale
151	189	yellow shale
189	202	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 60 0.265
5	new	plastic slotted	60 - 157 0.265
5	new	plastic solid	157 - 197 0.265

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Texas Department of Licensing and Regulation
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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #136417

Owner: **Smithwick Cemetery Association**

Owner Well #: **2**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 35" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119952

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/18/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **70**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1.5	brown topsoil
1.5	10	yellow caliche
10	25	yellow sand & gravel
25	54	red clay
54	65	brown sand
65	69	white & gray limestone
69	89	gray limestone
89	113	gray clay
113	147	brown gravel & red shale
147	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #136421

Owner: **Smithwick Cemetery Association**

Owner Well #: **3**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119953

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/18/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **80**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	0.5	brown topsoil
0.5	5	yellow caliche
5	10	yellow sand & gravel
10	18	red shale
18	27	yellow sand & gravel
27	54	red clay
54	68	gray limestone
68	117	gray clay
117	145	brown gravel & red shale
145	162	yellow shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
none			

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

STATE OF TEXAS WELL REPORT for Tracking #136423

Owner: **Smithwick Cemetery Association**

Owner Well #: **4**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119954

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **80**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	13	red shale
13	25	yellow sand & gravel
25	51	red clay
51	68	brown sand
68	75	white & red limestone
75	96	gray limestone
96	118	gray clay
118	150	brown gravel & red shale
150	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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

STATE OF TEXAS WELL REPORT for Tracking #136424

Owner: **Smithwick Cemetery Association**

Owner Well #: **5**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119955

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **90**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	10	yellow caliche
10	18	yellow sand & gravel
18	53	red shale & clay
53	67	brown sand
67	95	gray limestone
95	117	gray clay
117	151	brown sand & shale
151	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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 #136425

Owner: **Smithwick Cemetery Association**

Owner Well #: **6**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 50" N**

Longitude: **098° 08' 28" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119956

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **90**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	brown topsoil
1	2	yellow caliche
2	5	red clay
5	17	yellow, white & gray sand
17	38	gray limestone
38	66	gray clay
66	79	red clay
79	98	brown gravel
98	155	yellow shale
155	162	gray shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
none			

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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 #136428

Owner: **Richard Giesecke**

Owner Well #: **1**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **Double Creek Road
Marble Falls, TX 78654**

Latitude: **30° 34' 14" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/21/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	183

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	23	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **200**

Sealed By: **Driller**

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

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **19 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **poor boy 23'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 12 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
16, 35, 53, 100, 120	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	4	brown clay
4	19	brown sand
16	19	water 0.5 gpm
19	34	red clay
34	55	white & red limestone
35	36	water 2 gpm
53	54	water 5 gpm
55	77	gray & white limestone
77	95	gray clay
95	97	red clay
97	159	white, yellow & brown limestone
100	120	water 2 gpm
120	140	water 3 gpm
159	165	yellow shale
165	183	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 33 0.265
5	new	plastic slotted	33 - 93 0.265
5	new	plastic solid	93 - 103 0.265
5	new	plastic slotted	103 - 163 0.265
5	new	plastic solid	163 - 183 0.265

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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 #141423

Owner: **Waterford Club Development**

Owner Well #: **2**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 11" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **3/26/2008**

Drilling End Date: **3/28/2008**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	156

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
108	156	Gravel	3/8" Pea

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	108	19 of Portland

Seal Method: **Pressure Tremmie**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

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

Water Quality:

Strata Depth (ft.)	Water Type
108-148	Trinity

Chemical Analysis Made: **Yes**

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: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	8	Tan Limestone
8	16	TAn Sandstone
16	23	Tan Sand-Limestone
23	35	Gravel
35	40	Red Sandstone
40	43	Tan Sand
43	61	Red Clay
61	75	Tan Sandstone
75	108	Grey Sandstone
108	148	Gravel H2O
148	156	Tan-Blue Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 108' SDR17
4.5" (5" OD)	New	Slotted PVC	108' to 148' .035
4.5" (5" OD)	New	PVC	148' to 156' SDR17

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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 #143899

Owner:	DOUG ENGLISH	Owner Well #:	No Data
Address:	4306 BENEDICT LANE AUSTIN, TX 78746	Grid #:	57-31-9
Well Location:	2300 CR 41100 SPICEWOOD, TX 78669	Latitude:	30° 31' 17" N
		Longitude:	098° 09' 50" W
Well County:	Burnet	Elevation:	787 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/8/2008**

Drilling End Date: **5/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	12
	6.75	12	395

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	16	30

Seal Method: **Unknown**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NEOPRENE 16**

Type of Pump: **DID NOT SET**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **WELL WAS PLUGGED BY CUSTOMER**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	TOPSOIL
3	14	RED SANDSTONE W/ GRAVEL
14	65	ELLENBERGER ROCK
65	68	TAN CLAY
68	95	ELLENBERGER ROCK
95	97	CAVE
97	105	ELLENBERGER ROCK
105	106	ROCK W/ ORANGE CLAY
106	395	BLACK ROCK W/GREY ROCK

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8	NEW	PLASTIC	0-16

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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 #146352

Owner: **Waterford Club Development**

Owner Well #: **11**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-9**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 31' 54" N**

Longitude: **098° 09' 12" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **5/29/2008**

Drilling End Date: **5/29/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	30

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	26	Gravel
26	30	Tan Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #146353

Owner: **Waterford Club Development**

Owner Well #: **12**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 32' 32" N**

Longitude: **098° 08' 32" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **5/30/2008**

Drilling End Date: **5/30/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	Gravel
12	17	Red Clay
17	20	Gravel
20	25	Clay
25	26	Gravel
26	30	Clay
30	31	Gravel
31	41	Tan Clay
41	50	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #146354

Owner: **Waterford Club Development**

Owner Well #: **13**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 10" N**

Longitude: **098° 08' 12" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **6/4/2008**

Drilling End Date: **6/4/2008**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.75	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
15	50	Gravel	3/8" Pea

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	4 of Portland

Seal Method: **Pressure Tremmie**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 52 GPM with 10 ft. drawdown after 36 hours**

Water Quality:

Strata Depth (ft.)	Water Type
15-25	Trinity

Chemical Analysis Made: **Yes**

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: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	15	Sandy Loam
15	25	Gravel
25	37	Tan Clay
37	50	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 15' SDR17
4.5" (5" OD)	New	Slotted PVC	15' to 25' .035
4.5" (5" OD)	New	PVC	25' to 50' SDR17

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 #148034

Owner: **James Frey**

Owner Well #: **No Data**

Address: **904 Lund St
Austin, TX 78704**

Grid #: **57-31-6**

Well Location: **11332 E Hwy 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 57" N**

Longitude: **098° 08' 25" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/12/2008**

Drilling End Date: **3/12/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 10**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
10-110	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	8	Black Clay
8	37	Tan Sand Sandstone H2O
37	53	White Limestone
53	82	Red Clay
82	110	Gravel Sand H2O
110	140	Tan Clay Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5" (5" OD)	New	PVC	+ 2' to 10' SDR17
4.5" (5" OD)	New	Slotted PVC	10' to 50' .035
4.5" (5" OD)	New	PVC	50' to 90' SDR17
4.5" (5" OD)	New	Slotted PVC	90' to 110' .035
4.5" (5" OD)	New	PVC	110' to 130' SDR17

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Texas Department of Licensing and Regulation
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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #148049

Owner:	Ned Ross	Owner Well #:	4
Address:	PO Box 93188 Austin, TX 78709	Grid #:	57-31-6
Well Location:	11535 E FM 1431 Marble Falls, TX 78654	Latitude:	30° 34' 03" N
		Longitude:	098° 08' 13" W
Well County:	Burnet	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **7/20/2008** Drilling End Date: **7/20/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	200

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
160-200	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J Johnson** License Number: **54989**

Comments: **Backfilled w/ 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan Limestone
15	22	Grey Clay
22	40	Red Sandstone
40	75	Tan Limestone
75	85	Sand
85	105	Red Sandstone
105	160	Grey Limestone w/ Clay
160	200	Red Sandstone w/ Gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #164322

Owner:	Ned Ross	Owner Well #:	No Data
Address:	P O Box 93188 Austin, TX 78709	Grid #:	57-31-6
Well Location:	11535 E FM 1431 Marble Falls, TX 78654	Latitude:	30° 34' 00" N
		Longitude:	098° 08' 15" W
Well County:	Burnet	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/9/2008** Drilling End Date: **11/9/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	185

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
130-182	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Dry Well backfilled including 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	10	Tan Limestone
10	18	Sand
18	33	Tan and White Limestone
33	56	Sand
56	79	Red Clay
79	88	Tan Limestone
88	90	Gray Sand
90	112	Gray Clay w/ Limestone
112	130	Gray Clay
130	136	Red Sandstone

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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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 #166481

Owner: **Smithwick Church of Christ**

Owner Well #: **No Data**

Address: **c/o 300 CR 344
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **FM 1431 East
Marble Falls, TX 78654**

Latitude: **30° 33' 46" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/17/2008**

Drilling End Date: **12/17/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	157

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	50	157	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	60	12 cement

Seal Method: **tremi pipe pressure
cemented**

Distance to Property Line (ft.): **90**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **200**

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **54 ft. below land surface on 2008-12-18**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0.5 - 1 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
60	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	brown topsoil
2	4	white limestone
4	7	yellow caliche
7	48	gray shale & clay
48	71	red shale & clay
60	97	water 0.5 gpm
71	97	brown, red & white gravel
97	157	oily gray shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
5	new	plastic solid	0 - 60 0.265
5	new	plastic slotted	60 - 100 0.265
5	new	plastic solid	100 - 157 0.265

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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 #166483

Owner: **Smithwick Church of Christ**

Owner Well #: **No Data**

Address: **c/o 300 CR 344
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **FM 1431 East
Marble Falls, TX 78654**

Latitude: **30° 33' 46" N**

Longitude: **098° 08' 48" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/17/2008**

Drilling End Date: **12/17/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	158

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	70	158	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	70	18 cement

Seal Method: **tremi pipe pressure
cemented**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **250**

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **54 ft. below land surface on 2008-12-18**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
70	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	brown topsoil
2	4	white limestone
4	9	yellow caliche
9	45	gray shale & clay
45	49	brown shale
49	53	brown limestone
53	70	red shale & clay
70	85	brown, red & white limestone
70	85	water 1 gpm
85	98	yellow shale
98	158	oily gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	0 - 70 0.265
5	new	plastic slotted	70 - 85 0.265
5	new	plastic solid	85 - 158 0.265

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

STATE OF TEXAS WELL REPORT for Tracking #241041

Owner: **Travis Spaulding**

Owner Well #: **No Data**

Address: **P.O. Box 458
Spicewood, TX 78669**

Grid #: **57-31-6**

Well Location: **.6 mi. E of Smithwick Cemetery on FM
1431; .2 mi. W by creek
TX**

Latitude: **30° 34' 04" N**

Longitude: **098° 08' 22" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/12/2011**

Drilling End Date: **1/12/2011**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	40
6.75	40	41
6	41	70

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	3	1 Cement
3	40	3 Benseal

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **39 ft. below land surface on 2011-01-12**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **60**

Well Tests: **Jetted**

Yield: 3 GPM

Water Quality:

Strata Depth (ft.)	Water Type
56 - 59	good (680 ppmTDS)

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: **Virdell Drilling Inc.**
111 E. Grayson St.
Llano, TX 78643

Driller Name: **Taylor Virdell Jr.**

License Number: **1900**

Apprentice Name: **James Caleb Virdell**

Apprentice Number: **57668**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	10	Brown Clay & Gravel
10	13	Gravel & Sand
13	21	Red Clay
21	37	Brown Clay
37	60	Brown & Gray Limestone
60	68	Gray Limestone
68	70	Gray Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" N PVC	+2	- 41 sch 40	

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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 #251911

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 20" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #130850

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **3/15/2006**

Drilling End Date: **3/15/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	40

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data on 2006-03-15**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	2 40 Drill Cuttings		
	0 2 1		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	3	Top Soil and Gravel
3	18	Red Loam
18	40	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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

STATE OF TEXAS WELL REPORT for Tracking #251913

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 21" N**

Longitude: **098° 08' 47" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #130851

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **3/15/2006**

Drilling End Date: **3/15/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	165

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data on 2006-03-15**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	2 165 Drill Cuttings		
	0 2 1		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil and Gravel
3	51	Yellow Shale
51	165	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #278990

Owner:	Sergio Perez	Owner Well #:	No Data
Address:	1312 Green Valley Lake Granite Shoals, TX 78654	Grid #:	57-31-6
Well Location:	1312 Green Valley Lake Granite Shoals, TX 78654	Latitude:	30° 33' 28" N
Well County:	Burnet	Longitude:	098° 09' 21" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/26/2012** Drilling End Date: **1/26/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 95, 90, 20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1/2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
95-123	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P. G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	14	Sand/Clay
14	16	Grey Clay
16	55	Red Clay
55	71	Grey/Tan Limestone
71	95	Grey Clay
95	100	Red Sandstone
100	123	Gravel
123	140	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 103' SDR17
4.5" (5" OD)	New	Slotted PVC	103' to 123' .035

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #297443

Owner: **Cary Martin**

Owner Well #: **No Data**

Address: **115 Glendale Road
Spicewood, TX 78669**

Grid #: **57-31-9**

Well Location: **115 Glendale Road
Spicewood, TX 78669**

Latitude: **30° 31' 27" N**

Longitude: **098° 08' 03" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **7/1/2012**

Drilling End Date: **7/1/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	260

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 100', 90', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
108-118	Marble Falls

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-002	Gravel	
002-087	Gray/Black Limestone	
087-186	Tan Limestone	
186-260	Black Limestone	
**H2O at 108, 115, 118		

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5" OD)	New PVC	+2' to 100' SDR17
4.5"	(5" OD)	New Slotted PVC	100' to 120' .035
4.5"	(5" OD)	New PVC	120' to 160' SDR17
4.5"	(5" OD)	New Slotted PVC	160' to 180' .035
4.5"	(5" OD)	New PVC	180' to 240' SDR17
4.5"	(5" OD)	New Slotted PVC	240' to 260' .035

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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 #310107

Owner: **DON & NANCY WEAVER/STROBEL
BUILDER**

Owner Well #: **No Data**

Address: **2217 POTOMAC, UNIT D
HOUSTON, TX 77057**

Grid #: **57-31-9**

Well Location: **125 GLENDALE RD.
SPICEWOOD, TX 78669**

Latitude: **30° 31' 28" N**

Longitude: **098° 08' 04" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/2/2012**

Drilling End Date: **5/3/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	40
	6.125	40	165

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	50	1 CEMENT
	1	50	5 GROUT

Seal Method: **GRAVITY POWERED**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

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

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed**

Water Level: **30 ft. below land surface on 2012-05-03**

Measurement Method: **Unknown**

Packers: **BURLAP & PLASTIC 105, 85, 50**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 5-7 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80	TRINITY

Chemical Analysis Made: **No**

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

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

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **FRANK GLASS**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-10		RED SANDY LIME
10-35		SAND & GRAVEL
35-80		GRAY CLAY
80-160		BROWN W/BLACK STREAKS OF
		GRANITE
160-165		BLACK GRANITE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 1/4	N	PLASTIC SCH. 40	0 TO 40 SCH. 40
5	N	SDR17 -2	TO 125
5	N	SDR17 SCREEN	125 TO 165 .032

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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 #343112

Owner: **Victor Rosales**

Owner Well #: **No Data**

Address: **1518 W Gardiana
McAllen, TX 78501**

Grid #: **57-31-6**

Well Location: **The Ranches at Double Horn Lot 1A
Spicewood, TX 78669**

Latitude: **30° 33' 08" N**

Longitude: **098° 09' 41" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/26/2013**

Drilling End Date: **8/26/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	18
	6.25	18	340

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Port

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 200,180,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
218-320	Marble Falls

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: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-027		Broken Limestone w/Clay
027-059		Gray Tan Limestone
059-083		Broken Limestone -Clay-Red
083-		DK Gray-Tan Limestone
218		H2o
320		H2o
320-340		Gray Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5OD)	New PVC	+2 to 200 SDR 17
4.5"	(5OD)	Slotted	200 to 240 .035
4.5"	(5OD)	New PVC	240 to 320 SDR 17
4.5"	(5OD)	Slotted	320 to 340 .035

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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 #350486

Owner: **Sara & Donald Brauninger**

Owner Well #: **No Data**

Address: **516 Camp Ridge Rd
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **516 Camp Ridge Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 04" N**

Longitude: **098° 09' 42" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/8/2013**

Drilling End Date: **11/8/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	145

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

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

Water Quality:

Strata Depth (ft.)	Water Type
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Backfill/ 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-001		Top Soil
001-025		Sand Gravel
025-030		Tan Sandy Clay
030-044		Gray Clay
044-081		Sand & Gravel
		Backfilled 2 Cement Cap
081-101		Tan Clay
101-145		Gray Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
N/A			

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

STATE OF TEXAS WELL REPORT for Tracking #359280

Owner: **Corix Utilities** Owner Well #: **No Data**
Address: **6836 Bee Cave Rd. Ste 209** Grid #: **57-31-9**
Austin, TX 78746
Well Location: **Golf Course Drive** Latitude: **30° 31' 16" N**
Spicewood, TX 78669 Longitude: **098° 08' 22" W**
Well County: **Burnet** Elevation: **645 ft. above sea level**

****This well has been plugged****

Plugging Report Tracking #93544

Type of Work: **New Well** Proposed Use: **Test Well**

Drilling Start Date: **11/4/2013** Drilling End Date: **4/7/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	36

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Annular Seal Data: **No Data**

Seal Method: **NA**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **5 ft. below land surface on 2013-11-06** Measurement Method: **Unknown**

Packers: **Gravel**

Type of Pump: **Test** Pump Depth (ft.): **0**

Well Tests: **Pump** **Yield: 125 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
5-36	Good TDS 500

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: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	Brown Clay
5	10	Brown Clay Fine gravel
10	36	Medium gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
8"	New	PVC-SDR 17IB	0 to 16
8"	New	PVC-17 Slotted .035	16 to 36

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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 #362791

Owner:	LCRA	Owner Well #:	Well #1
Address:	PO Box 220 Austin, TX 78767	Grid #:	57-31-9
Well Location:	Bottom of Spicewood Beach Boat Ramp Spicewood, TX	Latitude:	30° 31' 26" N
		Longitude:	098° 08' 37" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Public Supply
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Drilling Start Date: 4/28/2014

Drilling End Date: 4/30/2014

Plans Approved by TCEQ - YES

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	18.5	0	38

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	7	38	Gravel	12-20

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	4	8	3 sks Portland

Seal Method: Positive Displacement
Exterior Method

Distance to Property Line (ft.): No Data

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Alternative Procedure Used

Water Level:	7 ft. below land surface on 2014-04-30	Measurement Method:	Unknown
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Packers: na

Type of Pump:	Submersible	Pump Depth (ft.):	30
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Well Tests:	Pump	Yield:	160 GPM with 13 ft. drawdown after 8 hours
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Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
7-38	Surface

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: **Geoprojects**
8834 Circle Drive
Austin, TX 78736

Driller Name: **Evan Schaefer** License Number: **58772**

Comments: **TCEQ approved this well completion as surface water infiltration galleries for Spicewood Beach PWS System.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	fine Silts
2	7	Black Clay
7	38	Sand and Gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
New 12" 304 SS blank from 2' to 10' and			
new 12" SS Wire-Wrapped, Rod-Based, .020" Screen from 10' to 35'.			

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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 #362793

Owner:	LCRA	Owner Well #:	Well #2
Address:	PO Box 220 Austin, TX 78767	Grid #:	57-31-9
Well Location:	Bottom of Spicewood Beach Boat Ramp Spicewood, TX	Latitude:	30° 31' 26" N
		Longitude:	098° 08' 37" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Public Supply
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Drilling Start Date: 5/5/2014

Drilling End Date: 5/7/2014

Plans Approved by TCEQ - YES

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	18.5	0	38

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	7	38	Gravel	12-20

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	4	8	3 sks Portland

Seal Method: Positive Displacement
Exterior Method

Distance to Property Line (ft.): No Data

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Alternative Procedure Used

Water Level:	7 ft. below land surface on 2014-04-30	Measurement Method:	Unknown
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Packers: na

Type of Pump:	Submersible	Pump Depth (ft.):	30
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Well Tests:	Pump	Yield:	160 GPM with 13 ft. drawdown after 8 hours
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Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
7-38	Surface

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: **Geoprojects**
8834 Circle Drive
Austin, TX 78736

Driller Name: **Evan Schaefer** License Number: **58772**

Comments: **TCEQ approved this well completion as surface water infiltration galleries for Spicewood Beach PWS System.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	10	Fine Silt
10	38	Sand and Gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
New 12" 304 SS blank from 2' to 10' and			
new 12" Stainless Steel, Wire-Wrapped, Rod Based Screen from 10' to 35'			

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 #363928

Owner: **Michael W. Henry Sr.**

Owner Well #: **No Data**

Address: **1639 Hickory Creek Rd
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1639 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 47" N**

Longitude: **098° 07' 49" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/25/2014**

Drilling End Date: **3/25/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	125

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 6,50,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: Seep GPM**

Water Quality:

Strata Depth (ft.)	Water Type
65-103	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	25	Tan Limestone
25	35	Gray Tan Limestone
35	65	Cray Clay
65	74	Red Sandstone
74	103	Gravel
103	125	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5 OD)	New	PVC	2' to 85' SDR 17
4.5" (5 OD)	New	Slotted	85' to 105' .035
4.5" (5 OD)	New	PVC	105' to 125' SDR17

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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 #380276

Owner: **Central Texas Groundwater Conservation**
Address: **225 South Pierce
Burnet, TX 78611**
Well Location: **Vista Del Rio (Horse Stable)
Burnet, TX 78611**
Well County: **Burnet**

Owner Well #: **No Data**
Grid #: **57-31-9**
Latitude: **30° 32' 29" N**
Longitude: **098° 09' 41" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **9/17/2014**

Drilling End Date: **9/22/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	160
	6.25	160	1100

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	25	10 Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **Burlap/Neoprene 160,158,25,30**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: N/A GPM**

Water Quality:

Strata Depth (ft.)	Water Type
658-1100	Ellenberger

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: **APEX Drilling INC.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	7	Gravel
7	18	Tan Limestone Red Clay
18	21	Hard
21	26	Gravel
26	33	Gravel
33	37	Tan Clay
37	81	Gray Clay Blue
81	90	Gray Limestone w Blue Clay Stripes
90	94	Clay
94	156	Gray Limestone w Clay
156	217	Gray Tan Limestone
217	625	Gray Blue Tan Limestone
625	658	Gray White Limestone
658	1100	Tan Gray Dolomite Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6.25"	New	PVC	+2' to 160 SCH40

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

STATE OF TEXAS WELL REPORT for Tracking #384317

Owner: **Shane & Leah Carpenter**

Owner Well #: **No Data**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 32" N**

Longitude: **098° 08' 18" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/23/2014** Drilling End Date: **12/23/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	101

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **Unknown**

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

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

Company Information: **APEX Drilling INC.**

**P O Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	17	Tan White LS
17	21	Gray Tan LS
21	50	Gray Clay
50	61	Red SS
61	81	Gravel
81	95	Tan Clay
95	101	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N /A Back fill			

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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 #384318

Owner: **Shane & Leah Carpenter**

Owner Well #: **No Data**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 32" N**

Longitude: **098° 08' 18" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/23/2014** Drilling End Date: **12/23/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	101

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **Unknown**

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

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

Company Information: **APEX Drilling INC.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	17	Tan White LS
17	21	Gray Tan LS
21	50	Gray Clay
50	61	Red SS
61	81	Gravel
81	95	Tan Clay
95	101	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N /A Back fill			

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P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #393220

Owner: **Shane & Leah Carpenter**

Owner Well #: **2**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 35" N**

Longitude: **098° 08' 17" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/15/2015**

Drilling End Date: **4/15/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40
	6.25	40	110

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **Unknown**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Dry**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-001		Top Soil
001-028		Tan LS
028-035		Gray Clay
035-054		Tan Red SS
054-073		Gravel
073-105		Tan Clay
		Backfilled
		2 Cement Cap

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #398435

Owner: **John Lookenbach**

Owner Well #: **No Data**

Address: **10150 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10150 FM 1431
Burnet, TX 78611**

Latitude: **30° 33' 51" N**

Longitude: **098° 09' 27" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2015**

Drilling End Date: **6/29/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	230

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Portland

Seal Method: **Slurry**

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

Sealed By: **Apex Drilling INC.**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 165,160,30,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 3 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
165-210	Trinity TDS 720

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan LS
15	32	Gray Tan LS
32	95	Tan LS W/ Sand
95	121	Red Clay
121	147	Gray Tan LS
147	165	Gray Clay
165	210	Gravel
210	225	Tan Clay
225	230	Gray Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5 OD)	New	PVC	+2' to 170' SDR17
4.5" (5 OD)	New	Screen	170' to 210' .035
4.5" (5 OD)	New	PVC	210' to 230 SDR17

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P.O. Box 12157
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #404689

Owner:	Scott Lytle	Owner Well #:	No Data
Address:	17327 Rosy Hill Court Cypress, TX 77429	Grid #:	57-31-6
Well Location:	1690 Hickory Creek Rd Marble Falls, TX 78654	Latitude:	30° 32' 36" N
Well County:	Burnet	Longitude:	098° 07' 43" W
		Elevation:	682 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **8/14/2015** Drilling End Date: **8/17/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	12 cement
	20	30	12 Bentonite

Seal Method: **Pos. Displacement**

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

Sealed By: **Driller**

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

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

Method of Verification: **Mesured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **20 ft. below land surface on 2015-08-14** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
30/50	Good

Chemical Analysis Made: **No**

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

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

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Bormann**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0	30	Clay
30	50	Gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	0/30'
4.5	New	PVC-17 Slotted	30/50' 0.35

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

STATE OF TEXAS WELL REPORT for Tracking #404864

Owner:	Travis Spaulding	Owner Well #:	Well #1
Address:	PO Box 563 Marble Falls, TX 78654	Grid #:	57-31-6
Well Location:	1700 Hickory Creek Lane Marble Falls, TX 78654	Latitude:	30° 32' 39" N
Well County:	Burnet	Longitude:	098° 07' 44" W
		Elevation:	690 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **8/14/2015** Drilling End Date: **8/14/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	5	5 Cement
	35	50	20 Bentonite

Seal Method: **Pos. displacement**

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

Sealed By: **Driller**

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

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **20 ft. below land surface on 2015-08-13** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
35/45	Good

Chemical Analysis Made: **No**

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

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

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Bormann**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0	35	Clay
35	45	Gravel
45	50	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR-17	solid 0/30
4.5	New	PVC-SDR 17	Screen 30/50 .020

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 #404867

Owner: **Travis Spaulding** Owner Well #: **Well #2**
Address: **PO Box 563** Grid #: **57-31-6**
Marble Falls, TX 78654
Well Location: **1700 Hickory Creek Rd** Latitude: **30° 32' 36" N**
Marble Falls, TX 78654 Longitude: **098° 07' 42" W**
Well County: **Burnet** Elevation: **682 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #151852

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **8/25/2015** Drilling End Date: **8/25/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	7.875	0	65

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	no casing 0/4 1 type H cement		
	4/65 Back fill-cuttings		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Borman**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
0	4	Clay
4-65		Sandy Loam

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #416407

Owner: **Matthew R. & Luisa Piette**

Owner Well #: **No Data**

Address: **527 Pawtucket Blvd.
Lowell, MA 01854**

Grid #: **57-31-6**

Well Location: **1425 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 30" N**

Longitude: **098° 07' 49" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/9/2016**

Drilling End Date: **2/9/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	55
	6.25	55	130

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	3	Portland 1 Bags/Sacks
	3	55	Benseal 3 Bags/Sacks

Seal Method: **Pressure**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **50+**

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 55 ft.
Burlap/Neoprene at 56 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
55 - 88	Trinity

Chemical Analysis Made: **No**

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

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	5	Tan LS
5	10	Sand Gravel
10	18	Tan LS
18	23	Gray LS
23	45	Gray Clay
45	50	Tan Clay
50	55	Gray Clay
55	56	Red SS
56	88	Red SS w/ Gravel
88	105	Tan Clay
105	130	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	70
4.5	Screen	New Plastic (PVC)	.035	70	90
4.5	Blank	New Plastic (PVC)	SDR17	90	130

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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 #425171

Owner: **Shookies, LP**

Owner Well #: **1**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 41" N**

Longitude: **098° 08' 57" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/10/2016**

Drilling End Date: **6/10/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 74 ft.
Burlap/Neoprene at 80 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80 - 120	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	6	Sandy Gravel
6	8	Tan Clay
8	10	Red Clay
10	20	Tan LS Red Clay
20	27	Tan Sand
27	35	Tan LS
35	40	Fine Gray Sand w/ Clay
40	43	Gray SS
43	80	Gray Tan LS
80	81	Red SS
81	113	Gravel
113	117	Red Clay
117	119	Gravel
119	120	Turquoise Clay
120	140	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	80
4.5	Screen	New Plastic (PVC)	.035	80	120
4.5	Blank	New Plastic (PVC)	SDR17	120	140

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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 #425172

Owner: **Shookies, LP**

Owner Well #: **2**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 09' 07" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/13/2016**

Drilling End Date: **6/13/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	17	Portland 4 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 25 ft.
Burlap / Neoprene at 28 ft.
Burlap / Neoprene at 95 ft.
Burlap / Neoprene at 98 ft.
Burlap / Neoprene at 100 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
20 - 130	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Red SS
2	10	Tan Sand
10	17	Tan LS Red Clay
17	20	Gray Sand w/ Clay
20	22	Gravel
22	41	Red Clay
41	50	Tan LS
50	95	Gray Tan LS
95	106	Red SS
106	130	Gravel
130	131	Clay
131	150	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	18
4.5	Screen	New Plastic (PVC)	.035	18	30
4.5	Blank	New Plastic (PVC)	SDR17	30	110
4.5	Screen	New Plastic (PVC)	.035	110	130
4.5	Blank	New Plastic (PVC)	SDR17	130	150

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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 #425173

Owner: **Shookies, LP**

Owner Well #: **3**

Address: **407 Meadow Run Dr
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 48" N**

Longitude: **098° 09' 05" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/16/2016**

Drilling End Date: **6/16/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	155

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	Portland 3 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 15 ft.
Burlap / Neoprene at 55 ft.
Burlap / Neoprene at 115 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
15 - 134	Trinity - TDS 640

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Red SS
15	27	Sand & Gravel
27	46	Red Clay
46	58	Tan LS W/ Sand
58	103	Gray Tan LS
103	107	Gravel
107	116	Red SS
116	134	Gravel
134	134	Turquoise Clay
135	155	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	15
4.5	Screen	New Plastic (PVC)	.035	15	35
4.5	Blank	New Plastic (PVC)	SDR17	35	55
4.5	Screen	New Plastic (PVC)	.035	55	75
4.5	Blank	New Plastic (PVC)	SDR17	75	115
4.5	Screen	New Plastic (PVC)	.035	115	135
4.5	Blank	New Plastic (PVC)	SDR17	135	155

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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 #425174

Owner: **Shookies, LP**
Address: **407 Meow Run Dr.
Friendswood, TX 77546**
Well Location: **10516 E FM 1431
Marble Falls, TX 78654**
Well County: **Burnet**
Number of Wells Drilled: **5**

Owner Well #: **4**
Grid #: **57-31-6**
Latitude: **30° 33' 36" N**
Longitude: **098° 09' 02" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/17/2016**

Drilling End Date: **6/17/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	15
6.25	15	128

Drilling Method: **Unknown**

Borehole Completion: **Back Filled 2' Cement Cap " DRY "**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Back Filled 2' Cement Cap " DRY "**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	13	Sandy Loan
13	35	Red Clay
35	45	Sand
45	64	Gray LS
64	90	Gray Clay
90	125	Gravel
125	126	Turquoise Clay
126	128	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #425175

Owner: **Shookies, LP**
Address: **407 Meadow Run Dr.
Friendswood, TX 77546**
Well Location: **10516 E FM 1431
Marble Falls, TX 78654**
Well County: **Burnet**
Number of Wells Drilled: **5**

Owner Well #: **5**
Grid #: **57-31-6**
Latitude: **30° 33' 35" N**
Longitude: **098° 09' 07" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/22/2016**

Drilling End Date: **6/22/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	160

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	18	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 20 ft.
Burlap / Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
18 - 140	Trinity - TDS 740

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	18	Sandy Loan
18	21	Sand & Gravel
21	35	Tan LS W/ Sand
35	48	Red Clay
48	58	Tan LS W/ Sand
58	105	Gray LS
105	107	Red SS
107	140	Gravel
140	141	Turquoise Clay
141	160	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	120
4.5	Screen	New Plastic (PVC)	.035	120	140
4.5	Blank	New Plastic (PVC)	SDR17	140	160

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 #448187

Owner:	Jason Early	Owner Well #:	1
Address:	112 Swift Water Road Marble Falls, TX 78654	Grid #:	57-31-6
Well Location:	112 Swift Water Road Marble Falls, TX 78654	Latitude:	30° 32' 38" N
Well County:	Burnet	Longitude:	098° 07' 52" W
		Elevation:	807 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/1/2017**

Drilling End Date: **5/2/2017**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8	0	10
	6.75	10	140

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	-1	10	Bentonite 3 Bags/Sacks

Seal Method: **Poured**

Distance to Property Line (ft.): **60**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **150+**

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **100 ft. below land surface on 2017-05-02** Measurement Method: **Steel Tape**

Packers: **Rubber at 10 ft.**

Type of Pump: **No Data**

Well Tests: **Estimated** Yield: **4+ GPM with 0 ft. drawdown after .5 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Walden Drilling Inc**
PO Box 878
Llano, TX 78643

Driller Name: **Brian Walden**

License Number: **59369**

Apprentice Name: **Dustin Wilson**

Comments: **No Data**

Report Amended on 7/5/2017 by Request #21916

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	topsoil
1	50	brown limestone with clay streaks
50	70	red clay and sandstone streaks
70	75	brown limestone
75	130	brown sandstone and clay
130	140	grey clay

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	sdr17	-2	100
4.5	Screen	New Plastic (PVC)	sdr17 0.020	100	140

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #457450

Owner: **Dana B & Mary Ann Copp**

Owner Well #: **No Data**

Address: **600 Avenida Serena
Marble Falls , TX 78654**

Grid #: **57-31-6**

Well Location: **600 Avenida Serena
Marble Falls, TX 78654**

Latitude: **30° 32' 36" N**

Longitude: **098° 09' 35" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **6/16/2017**

Drilling End Date: **6/19/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	37
	6.25	37	100

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	15	Portland 4 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **50**

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 15 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
15 - 34	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	12	Red Clay w/ Gravel
12	34	Sand & Gravel
34	38	Tan Clay
38	100	Gray Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	100

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #534646

Owner:	Robert Brydon	Owner Well #:	1
Address:	Lot 59 Chimney Cove drive Marble Falls, TX 78654	Grid #:	57-31-9
Well Location:	Lot 59 Chimney Cove drive Marble Falls, TX 78654	Latitude:	30° 31' 51" N
		Longitude:	098° 08' 35" W
Well County:	Burnet	Elevation:	639 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/30/2020** Drilling End Date: **1/30/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **backfilled**

Sealed By: **Driller**

Distance to Property Line (ft.): **100+**

Distance to Septic Field or other
concentrated contamination (ft.): **200+**

Distance to Septic Tank (ft.): **200+**

Method of Verification: **owner**

Surface Completion: **backfilled**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Walden Drilling Inc**

**PO Box 878
Llano, TX 78643**

Driller Name: **Brian Walden**

License Number: **59369**

Apprentice Name: **Dustin Wilson**

Comments: **hole collapsing from river gravel. lost returns at 15 feet and caving. Needs mud drilling or drive steel casing in ground. Unsure of gravel depth to drive steel.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	10	red sand and clay
10	40	sand and river gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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

STATE OF TEXAS WELL REPORT for Tracking #563153

Owner: **Dana Nauman**

Owner Well #: **No Data**

Address: **1106 Ninth St
Marble Falls , TX 78654**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 16" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **12/29/2020**

Drilling End Date: **12/29/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.5	0	20
	6.5	20	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **Unknown**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 7631**
DRY

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	8	Sandy Loam w/ Gravel
8	12	Tan LS w/ Red Clay
12	119	Black Brown LS
119	123	Tan LS
123	128	Tan Black LS
128	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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STATE OF TEXAS WELL REPORT for Tracking #565204

Owner: **Damon Naumann**

Owner Well #: **2**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 13" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **2**

Type of Work: **New Well**

Proposed Use: **Unknown**

Drilling Start Date: **1/18/2021**

Drilling End Date: **1/18/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.5	0	17
6.25	17	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker P.G.** License Number: **54516**

Comments: **CTGCD # 7881**
DRY - Backfilled w/2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	10	Gravel w/ Red Clay
10	17	Tan LS
17	23	Black LS
23	27	Light Tan LS
27	30	Brown LS
30	200	Black and Brown LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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

STATE OF TEXAS WELL REPORT for Tracking #565218

Owner: **Lawrence Luckenbach**

Owner Well #: **No Data**

Address: **10120 E. FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10120 E. FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 40" N**

Longitude: **098° 09' 26" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/19/2021**

Drilling End Date: **1/19/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.5	0	18
	6.25	18	180

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	Portland 4 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 120 ft.
Burlap/Neoprene at 125 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
127 - 155	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker P.G.** License Number: **54516**

Comments: **CTGCD # 7720**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	12	Tan LS
12	16	Sand
16	21	Tan LS
21	28	Red White LS w/ Red Clay
28	45	Tan LS w/ Big Sand
45	63	Red SS
63	79	Red White LS
79	98	Gray Tan LS
98	117	Hammett Clay
117	127	Red SS
127	153	Gravel
153	180	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	140
4.5	Screen	New Plastic (PVC)	.035	140	160
4.5	Blank	New Plastic (PVC)	SDR17	160	180

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P.O. Box 12157
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #572622

Owner: **Damon Naumann**

Owner Well #: **3**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 17" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **3**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **4/27/2021**

Drilling End Date: **4/27/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **UNKNOWN**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 8027**
Backfilled w/2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top SOil
1	7	Sandy Loam w/ Gravel
7	13	Tan LS
13	30	Tan Brown LS
30	115	Black Brown LS
115	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #575316

Owner:	Rocky Waters Ranches 2 LP	Owner Well #:	No Data
Address:	598 W. Eau Gallie Blvd Melbourne , FL 32935	Grid #:	57-31-6
Well Location:	11705 East FM 1431 Marble Falls, TX 78654	Latitude:	30° 33' 37.3" N
		Longitude:	098° 08' 04.09" W
Well County:	Burnet	Elevation:	842 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 4/12/2021 Drilling End Date: 4/13/2021

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.625	0	10
	8.5	10	345

Drilling Method: Air Hammer

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	40	Cement 9
	40	48	Bentonite 3

Seal Method: Poured

Sealed By: Driller

Distance to Property Line (ft.): 300

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: Rubber at 48 ft.
Rubber at 50 ft.

Type of Pump: Submersible

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Rd.
Dripping Springs, TX 78620

Driller Name: **michael scott**

License Number: **59719**

Comments: **No Data**

Report Amended on 6/7/2021 by Request #34248

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	tan limestone
10	20	grey limestone / shale streaks / sand
20	40	grey limestone / shale
40	70	grey shale
70	100	red shale / red limestone
100	130	tan gravel 1 gpm
130	160	grey limestone
160	310	hard grey dolemite / stringers of clay
310	345	dark grey shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	50

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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 #592925

Owner: **R&G Properties LLC** Owner Well #: **1**
Address: **P.O. Box 97** Grid #: **57-31-6**
Salado, TX 76571
Well Location: **11705 E FM 1431** Latitude: **30° 33' 56" N**
Marble Falls, TX 78654 Longitude: **098° 08' 05" W**
Well County: **Burnet** Elevation: **887 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #215127

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/8/2021**

Drilling End Date: **12/8/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.75	0	20
6.75	20	210

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Plugged**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

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

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

Company Information: **Lucy Creek Water Well Service****PO Box 1847
Lampasas, TX 76550**Driller Name: **Juan Munoz**License Number: **54176**Apprentice Name: **Mario Munoz**Apprentice Number: **60427**Comments: **Dry Well / Plugged**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Red Sand
3	6	Tan L.S.
6	17	Reddish L.S.
17	20	Overburden
20	25	Sand
25	49	Red Shale
49	55	Sandy Tan L.S.
55	60	Tan + Yellow Shale
60	69	Black Sandy Shale
69	72	Black Shale
72	103	Grey Shale
103	109	Gray Sand
109	118	Brown Gravel
118	127	Red/Brown Shale
127	140	Brown Soil
140	155	Chunky Gravel
155	210	Grey Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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 #593620

Owner: **Damon Naumann**

Owner Well #: **4**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **4**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **12/13/2021**

Drilling End Date: **12/13/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	30
6.25	30	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**

**P.O. Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Apprentice Name: **Alfonso Rodriguez Jr.**

Apprentice Number: **60952**

Comments: **CTGCD # 8393
Dry
Backfilled w2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top SOil
1	3	Sandy Loam w/ Gravel
3	15	Broken Tan LS w/ Red Clay
15	19	Tan LS
19	23	Void
23	43	Brown LS
43	160	Black Brown LS
160	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #631774

Owner: **CR OPERATING, LLC**

Owner Well #: **Alt A**

Address: **111 East 5th St.
Suite 400
Fort Worth, TX 76102**

Grid #: **57-31-8**

Latitude: **30° 31' 20" N**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Longitude: **098° 10' 24" W**

Elevation: **No Data**

Well County: **Burnet**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #227438

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/11/2023**

Drilling End Date: **2/9/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	722

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE. Shovel cuttings back in hole.**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	2	Cement 1 Bags/Sacks
2	33	Bentonite 15 Bags/Sacks
33	722	Cuttings

Seal Method: **Poured**

Distance to Property Line (ft.): **500+**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **No known septic**

Method of Verification: **Owner Knowledge**

Surface Completion: **None**

Surface Completion NOT by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE
CUTTINGS PLACED BACK IN THE BOREHOLE AND SURFACE PLUGGED**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Topsoil
2	10	Tan hard Limestone
10	18	Tan and red Limestone with red Clay lenses
18	30	Gray hard Limestone
33	360	Loss returns. Void from 30 to 33
360	380	Black Shale with Slight hydrocarbon odor.
380	722	Offwhite to tan, hard Limestone. Minimal returns, only at connections. NO WATER

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #634625

Owner: **CR OPERATING, LLC**

Owner Well #: **TH 6**

Address: **111 East 5th St.
Fort Worth, TX 76102**

Grid #: **57-31-8**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Latitude: **30° 31' 51" N**

Longitude: **098° 10' 34" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **2/14/2023**

Drilling End Date: **2/21/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
10	0	63
8	63	724

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE, BACKFILLED WITH CUTTINGS**

Annular Seal Data: **No Data**

Seal Method: **Cement upper 2 feet,
BACKFILLED WITH
CUTTINGS**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **None**

Method of Verification: **No Data**

Surface Completion: **None**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE, BACKFILLED WITH CUTTINGS WITH 2' SEAL AT SURFACE.**

Report Amended on 3/23/2023 by Request #39094

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	18	Tan Clay
18	53	Dark tan Clay
53	292	Gray Shale
292	330	Gray Limestone
330	420	White Limestone
420	440	Gray Limestone
440	450	White Limestone
450	510	Gray Limestone
510	530	Light Gray Dolomite
530	724	Dark Gray Dolomite

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #634636

Owner: **CR OPERATING, LLC**

Owner Well #: **TH 1A**

Address: **111 East 5th St.
Fort Worth, TX 76102**

Grid #: **57-31-8**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Latitude: **30° 31' 49" N**

Longitude: **098° 10' 53" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **2/28/2023**

Drilling End Date: **3/10/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
12	0	36
8	36	722

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE. BACKFILLED WITH CUTTINGS.**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	2	Cement 1 Bags/Sacks

Seal Method: **BACKFILLED WITH
CUTTINGS.**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **None**

Method of Verification: **Owner Knowledge**

Surface Completion: **None**

Surface Completion NOT by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE. BACKFILLED WITH CUTTINGS, SURFACE SEAL.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	22	Yellow Clay with Gravel
22	89	Gray Clay
89	110	Gray Limestone
110	190	White Limestone
190	539	Gray Limestone
539	558	Soft gray Limestone
558	586	Soft black Shale
586	722	White Limestone. NO WATER

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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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 #634743

Owner: **Jennifer Greenberg**

Owner Well #: **No Data**

Address: **10701 Callanish Park Dr
Austin , TX 78750**

Grid #: **57-31-6**

Well Location: **Hickory Creek Rd
Smithwick, TX**

Latitude: **30° 33' 01" N**

Longitude: **098° 07' 59" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **3/16/2023**

Drilling End Date: **3/16/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	140

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **Unknown**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Apprentice Name: **Alfonso Rodriguez Jr**

Apprentice Number: **60952**

Comments: **CTGCD # 9063**
Backfilled w/ 2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	11	Sandy Loam / Gravel
11	27	Tan LS
27	37	Gray Tan LS
37	40	Gray LS w/ Clay
40	57	Hammet Clay
57	61	Tan SS
61	66	Red SS
66	86	Tan Red SS w/ Gravel Sand
86	140	Turquoise Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #642402

Owner:	CR OPERATING, LLC	Owner Well #:	MF5
Address:	111 East 5th Street Fort Worth, TX 76102	Grid #:	57-31-8
Well Location:	County Road 407, End of Flying X Road Spicewood, TX	Latitude:	30° 31' 45.62" N
		Longitude:	098° 10' 56.68" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Test Well
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Drilling Start Date: 5/12/2023 Drilling End Date: 5/23/2023

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	304

Drilling Method: Air Hammer

Borehole Completion: CUTTINGS SHOVELED BACK IN HOLE. DRY HOLE.

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	5	Cement 2 Bags/Sacks

Seal Method: Not Applicable

Sealed By: Driller

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion:	NOT COMPLETED	Surface Completion NOT by Driller
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Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K. Schaefer**

License Number: **58772**

Comments: **DRY HOLE. BOREHOLE BACKFILLED WITH CUTTINGS, CEMENT CAP AT TOP.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	50	Yellow Clay and Gravel
50	240	Hard grey Limestone; soft, clayey 207-231
240	304	Hard Black Limestone. DRY HOLE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #642746

Owner: **CR OPERATING, LLC**

Owner Well #: **TH-4**

Address: **111 East 5th St.
FORT WORTH, TX 76102**

Grid #: **57-31-8**

Well Location: **COUNTY ROAD 407, END OF FLYING
X ROAD
SPICEWOOD, TX**

Latitude: **30° 31' 33" N**

Longitude: **098° 10' 56" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/6/2023**

Drilling End Date: **5/11/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
16	0	31
12	31	95
8	95	565

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed; Screened; Straight Wall**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
31	105	Gravel	.25

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	31	Cement 40 Bags/Sacks

Seal Method: **Positive Displacement**

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

Sealed By: **Driller**

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

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

Method of Verification: **Owner Knowledge**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **42 ft. below land surface on 2023-03-23**

Measurement Method: **Electric Line**

Packers: **Rubber at 108 ft.
Rubber at 109 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: ~120 GPM**

Plug Information:

Description (number of sacks & material)	Top Depth (ft.)	Bottom Depth (ft.)
Cement	240	565

Water Quality:

Strata Depth (ft.)	Water Type
60 - 230	Marble Falls

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: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	31	Tan Clay w/ Gravel
31	65	Grey Limestone
65	75	Tan Limestone
75	90	VOID Clay and Silt-filled. Water encountered, est. 100+GPM
90	160	Light Grey Limestone
160	220	Grey Limestone
220	230	Tan Limestone
230	320	Grey Limestone
320	340	Tan Limestone
340	440	Grey Limestone
440	510	Dark Grey Limestone
510	550	Darl Grey Shale
550	675	White hard Limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6.9	Blank	New Plastic (PVC)	SDR17	0	60
6.9	Screen	New Plastic (PVC)	SDR17 0.032	60	80
6.9	Blank	New Plastic (PVC)	SDR17	80	100
6	Screen	New Plastic (PVC)	SDR17 0.020	100	230
6	Blank	New Plastic (PVC)	SDR17	230	240

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

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

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

STATE OF TEXAS PLUGGING REPORT for Tracking #38418

Owner:	TXDOT AustinDistrictBurnet Co	Owner Well #:	Abandoned Well
Address:	P.O. Drawer 15426 Austin, TX 78761	Grid #:	57-31-6
Well Location:	Appx 1 mile east from Smithwick on 1431 TX 78654	Latitude:	30° 34' 02" N
		Longitude:	098° 08' 12" W
Well County:	Burnet	Elevation:	No Data
Well Type:	Withdrawal of Water		

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	Unknown	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10		160

Plugging Information

Date Plugged: 4/19/2007 Plugger: Next-Gen Solutions. Inc.

Plug Method: Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	12	concrete
12	25	bentonite

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

Company Information: **Next-Gen Solutions, Inc.**

**P.O. Box 220
Keller, TX 76244**

Driller Name: **Dale K. Brown**

License Number: **54785**

Comments: **Well was previously plugged by others. Well in TXDOT ROW expansion. Well was plugged at original grade. TXDOT roadcut equipment cut 20+feet down exposed a 10" hole. Hole was bridged at 25' bgs. Contact R Quincy TWDB & WL Stripling TCEQ (512-463-2966) Hole was plugged on 04-19-07 with bentonite and concrete. TXDOT cut down road to new grade. Reinspected on 04-23-07. No borehole was observed.**

STATE OF TEXAS PLUGGING REPORT for Tracking #55068

Owner:	LCRA	Owner Well #:	No Data
Address:	PO Box 67900 Austin, TX 78767	Grid #:	57-31-5
Well Location:	End of CR 343A Smithwick Mills, TX 78654	Latitude:	30° 32' 34" N
		Longitude:	098° 10' 17" W
Well County:	Burnet	Elevation:	No Data

Well Type: **Withdrawal of Water**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	Unknown	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	5		35

Plugging Information

Date Plugged: **4/2/2004** Plugger: **Frank Glass**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
5	0	35

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	35	7

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

Company Information: **Western Water Wells**
500 Southland Dr.
Burnet, TX 78611

Driller Name: **Frank Glass** License Number: **1313**

Comments: **^EO**
Casing information updated by TWDB 9/16/15

STATE OF TEXAS PLUGGING REPORT for Tracking #93544

Owner:	Corix Utilities	Owner Well #:	No Data
Address:	6836 Bee Cave Rd. Ste 209 Austin, TX 78746	Grid #:	57-31-9
Well Location:	Golf Course Drive Spicewood, TX 78669	Latitude:	30° 31' 16" N
Well County:	Burnet	Longitude:	098° 08' 22" W
		Elevation:	No Data
Well Type:	Withdrawal of Water		

Drilling Information

Company:	No Data	Date Drilled:	11/4/2013
Driller:	Martin Lingle	License Number:	54813 AKP

Well Report Tracking #359280

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	12		36

Plugging Information

Date Plugged:	4/7/2014	Plugger:	Fred Smith
Plug Method:	Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet		

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
8	1	36

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	7	6 prld type I
7	36	1 3/8hlpkg 4bnsI

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

Company Information: **Whisenant & Lyle Water Services**
PO Box 525
Dripping Springs, TX 78620

Driller Name:	Fred Smith	License Number:	54437
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Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #107449

Owner: **LEONARD HILT**

Owner Well #: **001**

Address: **1901 RED FOX RD.
AUSTIN, TX 78734**

Grid #: **57-31-9**

Well Location: **LOT 40 CHIMNEY COVES
MARBLE FALLS, TX**

Latitude: **30° 32' 23" N**

Longitude: **098° 08' 02" W**

Well County: **Williamson**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **BEE CAVE DRILLING, INC.**

Date Drilled: **3/5/2003**

Driller: **Jim Blair**

License Number: **54416**

Well Report Tracking #19060

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	13
	8	13	250

Plugging Information

Date Plugged: **3/5/2003**

Plugger: **BOBBY ROBERTS**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 0 0 2 CEM 2

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

Company Information: **BEE CAVE DRILLING, INC.
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620**

Driller Name: **BOBBY ROBERTS**

License Number: **54416**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #109199

Owner: **MARION SHIPMAN #1**

Owner Well #: **01**

Address: **PO BOX 1119
CEDAR PARK, TX 78630**

Grid #: **57-31-9**

Well Location: **CHIMNEY COVE ESTATES
SMITHWICK, TX**

Latitude: **30° 32' 14" N**

Longitude: **098° 08' 10" W**

Well County: **Burnet**

Elevation: **707**

Well Type: **Domestic**

Drilling Information

Company: **BEE CAVE DRILLING, INC.**

Date Drilled: **3/17/2004**

Driller: **Jim Blair**

License Number: **54416**

Well Report Tracking #36552

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	190

Plugging Information

Date Plugged: **3/17/2004**

Plugger: **JIM BLAIR**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 - 2 CEMENT

2 - 190 CUTTINGS

Certification Data:

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #109200

Owner: **MARION SHIPMAN #2**

Owner Well #: **02**

Address: **PO BOX 1119
CEDAR PARK, TX 78630**

Grid #: **57-31-9**

Well Location: **CHIMNEY COVE ESTATES
SMITHWICK, TX**

Latitude: **30° 31' 51" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **717**

Well Type: **Domestic**

Drilling Information

Company: **BEE CAVE DRILLING, INC.**

Date Drilled: **3/18/2004**

Driller: **Jim Blair**

License Number: **54416**

Well Report Tracking #36555

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	50

Plugging Information

Date Plugged: **3/18/2004**

Plugging: **JIM BLAIR**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 - 3 CEMENT

3 - 50 CUTTINGS

Certification Data:

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #112663

Owner: **PHILLIP JOSEPH**

Owner Well #: **No Data**

Address: **2904 Richard Lane
Austin, TX 78703**

Grid #: **57-31-9**

Well Location: **Smithwick (near Narrows)
Marble Falls, TX 78654**

Latitude: **30° 32' 24" N**

Longitude: **098° 09' 47" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Western Water Wells**

Date Drilled: **9/22/2005**

Driller: **Frank A Glass**

License Number: **1313**

Well Report Tracking #68883

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	15
	6	15	300

Plugging Information

Date Plugged: **9/22/2005**

Plugging: **Frank Glass**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

Not Provided

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

Company Information: **Western Water Wells
500 Southland Drive
Burnet, TX 78611**

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119952

Owner: **Smithwick Cemetery Association**

Owner Well #: **2**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 35" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/18/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136417

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/18/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119953

Owner: **Smithwick Cemetery Association**

Owner Well #: **3**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/18/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136421

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/18/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119954

Owner: **Smithwick Cemetery Association**

Owner Well #: **4**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136423

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119955

Owner: **Smithwick Cemetery Association**

Owner Well #: **5**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136424

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugging: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119956

Owner: **Smithwick Cemetery Association**

Owner Well #: **6**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 50" N**

Longitude: **098° 08' 28" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136425

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugging: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #130850

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 20" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Tom Arnold Drilling**

Date Drilled: **3/15/2006**

Driller: **Tommy D Arnold**

License Number: **2096**

Well Report Tracking #251911

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	40

Plugging Information

Date Plugged: **3/15/2006**

Plugger: **Tommy D. Arnold**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 2 1

2 40 Drill Cuttings

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

Company Information: **Tom Arnold Drilling
1147 CR 170
Round Rock, TX 78664**

Driller Name: **Tommy D. Arnold**

License Number: **2096**

Comments: **\$dfs**

STATE OF TEXAS PLUGGING REPORT for Tracking #130851

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 21" N**

Longitude: **098° 08' 47" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Tom Arnold Drilling**

Date Drilled: **3/15/2006**

Driller: **Tommy D Arnold**

License Number: **2096**

Well Report Tracking #251913

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	165

Plugging Information

Date Plugged: **3/15/2006**

Plugger: **Tommy D. Arnold**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 2 1

2 165 Drill Cuttings

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

Company Information: **Tom Arnold Drilling
1147 CR 170
Round Rock, TX 78664**

Driller Name: **Tommy D. Arnold**

License Number: **2096**

Comments: **\$dfs**

STATE OF TEXAS PLUGGING REPORT for Tracking #151852

Owner: **Travis Spaulding**

Owner Well #: **Well #2**

Address: **PO Box 563
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1700 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 36" N**

Longitude: **098° 07' 42" W**

Well County: **Burnet**

Elevation: **682**

Well Type: **Irrigation**

Drilling Information

Company: **Whisenant & Lyle Water Services**

Date Drilled: **8/25/2015**

Driller: **Brice Bormann**

License Number: **54855**

Well Report Tracking #404867

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	7.875	0	65

Plugging Information

Date Plugged: **8/25/2015**

Plugger: **Brice Borman**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

Not Provided

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

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Borman**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #215127

Owner: **R&G Properties LLC**

Owner Well #: **1**

Address: **P.O. Box 97
Salado, TX 76571**

Grid #: **57-31-6**

Well Location: **11705 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 05" W**

Well County: **Burnet**

Elevation: **887**

Well Type: **Domestic**

Drilling Information

Company: **Lucy Creek Water Well Service**

Date Drilled: **12/8/2021**

Driller: **MUNOZ, JUAN**

License Number: **54176**

Well Report Tracking #592925

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.75	0	20
	6.75	20	210

Plugging Information

Date Plugged: **12/8/2021**

Plugger: **Juan Munoz**

Plug Method: **Native Cuttings**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	210	Native Cuttings

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

Company Information: **Lucy Creek Water Well Service**

**PO Box 1847
Lampasas, TX 76550**

Driller Name: **Juan Munoz**

License Number: **54176**

Apprentice Name: **Mario Munoz**

Apprentice Number: **60427**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #227438

Owner: **CR OPERATING, LLC**

Owner Well #: **Alt A**

Address: **111 East 5th St.
Suite 400
Fort Worth, TX 76102**

Grid #: **57-31-8**

Latitude: **30° 31' 20" N**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Longitude: **098° 10' 24" W**

Elevation: **No Data**

Well County: **Burnet**

Well Type: **Test Well**

Drilling Information

Company: **Geoprojects International, Inc.**

Date Drilled: **2/9/2023**

Driller: **Evan Schaefer**

License Number: **58772**

Well Report Tracking #631774

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	722

Plugging Information

Date Plugged: **2/9/2023**

Plugger: **Evan Schaefer**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,
cement top 2 feet**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description (number of sacks & material)</i>
0	2	Cement 1 Bags/Sacks
2	30	Bentonite 15 Bags/Sacks

Certification Data:

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

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE
CUTTINGS SHOVELED BACK INTO HOLE, HOLE PLUG AND CEMENT CAP AT
SURFACE.**



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

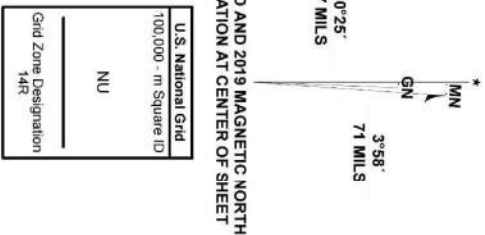


SMITHWICK QUADRANGLE
TEXAS - BURNET COUNTY
7.5-MINUTE SERIES

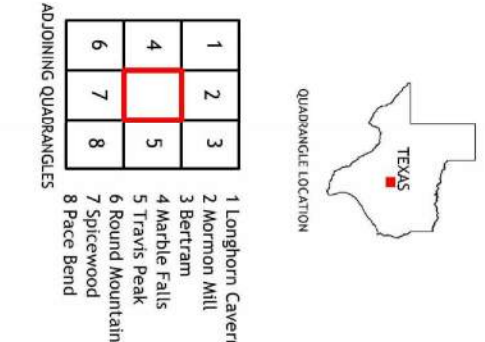


Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
datum are the same as the base map. This map is not
generated for this map scale. Private lands within government
land ownership boundaries may be shown. Private property lines
are not shown. Private property lines are not shown.

U.S. GEOLOGICAL SURVEY
NAMES, PLACES, AND FEATURES
Citation: U.S. Geological Survey, 2022
Map: U.S. Geological Survey, 2022
Scale: 1:24,000
Date: 2022
Author: U.S. Geological Survey
Editor: U.S. Geological Survey
Reviewer: U.S. Geological Survey
Cartographer: U.S. Geological Survey
Printer: U.S. Geological Survey
Distributor: U.S. Geological Survey
Sponsor: U.S. Geological Survey
Funding: U.S. Geological Survey
Availability: U.S. Geological Survey



SCALE 1:24,000
0 0.5 1 1.6
KILOMETERS
0 500 1000 2000
METERS
0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET



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



APPENDIX P

GROUNDWATER QUALITY REPORT, USDA SOIL SURVEY MAP AND SOIL ANALYSES

GROUNDWATER QUALITY ASSESSMENT

FOR

**SMITHWICK TRACT WASTEWATER TREATMENT PLANT
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

June 2024

PREPARED BY

**LJA ENGINEERING, INC.
7500 RIALTO BLVD, BUILDING II, SUITE 100
AUSTIN, TEXAS 78735
(512) 439-4700**

GROUNDWATER QUALITY ASSESSMENT

The purpose of this report is to assess the impact of the disposal of treated effluent on uses of local groundwater resources, as a part of the requirements of Title 30 of the Texas Administrative Code, Chapter 309, Subchapter C, Rule §309.20(a)(4). This report is provided as a supplement to the information included in the Domestic Worksheet 3.0, Section 7.

- (A) All water wells within a half mile radius of the disposal areas have been identified using the current Texas Water Development Board (TWDB) database. Where available, the uses of the wells have been identified. It should be noted that several of the wells labeled as public supply on the driller's logs appear to be for private use currently.

Water quality data is available for the following wells: 5731801, 5580, 5575, 5581, 136415, 136428, 241041, 359280, 398435, 425171, 425172, 425173, 425175. All wells are part of the Trinity Aquifer, which is the predominant aquifer in the area used for groundwater supply. Depth ranges from 30 to 1100 ft.

A review of the water quality indicates a range of water quality in the area. The total dissolved solids values averaged approximately 540 mg/L. Other values, including nitrate nitrogen and hardness were only available for well 5731801. The nitrate nitrogen was measured at 2.57 mg/L, and the hardness was measured at 359 mg/L.

Based on the data for the driller's logs, the wells were tested at various dates between 1985 and 2016. Given the similarity in data between the available water quality tests, it is reasonable to assume the water quality in this formation is generally similar for this area.

There are no anticipated impacts to the existing groundwater resources quality as a result of this proposed plan due to the measures required by rule and additional voluntary measures taken by the applicant to prevent effluent from reaching potential recharge areas. These include creek setbacks, weather stations to prevent irrigation during wet conditions and a reduced application rate.

- (B) Groundwater resources serving as sources or potential sources of domestic raw water supply by limiting wastewater application rates. Application rates will be limited to the values calculated in the attached water balance. In addition, moisture sensors will be installed to allow for preventive warning of saturated conditions and prevent irrigation in this condition.

Treated effluent will be held in in an onsite storage pond until routed to the spray irrigation units. The use of a larger than required pond from Phase 1 will ensure that there is ample storage capacity during extended wet periods.

Well Data (Available Water Quality)

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	5731801
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.519444
Latitude (degrees minutes seconds)	30° 31' 10" N
Longitude (decimal degrees)	-98.176667
Longitude (degrees minutes seconds)	098° 10' 36" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	775
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	620
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1956
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Unknown
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	Texas Water Development Board
Created Date	7/31/1985
Last Update Date	10/9/2009

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

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/11/1985 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Ellenburger Group

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		338	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		412.48	mg/L	
00910	CALCIUM (MG/L)		111	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		359	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		20	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.57	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.34		
00932	SODIUM, CALCULATED, PERCENT		8	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		15	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		790	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		18	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		411	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/gwdb.rpt.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.

STATE OF TEXAS WELL REPORT for Tracking #5575

Owner:	K. LINVEL BAKER	Owner Well #:	1
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 34' 01" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
---------------	----------	---------------	----------

Drilling Start Date: 2/19/2002 Drilling End Date: 2/19/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): 300

Distance to Septic Tank (ft.): No Data

Method of Verification: ESTIMATED

Surface Completion: Surface Sleeve Installed

Water Level:	95 ft. below land surface on 2002-02-20	Measurement Method:	Unknown
Packers:	POOR BOY 24'		
Type of Pump:	No Data		
Well Tests:	Estimated	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
25, 68, 145, 165	360 TDS, 14 GRAINS

Chemical Analysis Made: **Yes**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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**License Number: **1595**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	4	YELLOW CALICHE
4	12	RED SHALE & CLAY
12	40	BROWN SANDSTONE
25	40	WATER 0.5 GPM
40	68	RED CLAY WITH WHITE LIMESTONE
68	74	RED & WHITE SANDSTONE
68	74	WATER 2.5 GPM
74	95	GRAY LIMESTONE WITH SHALE STREAKS
95	123	GRAY CLAY & SHALE
123	134	RED CLAY
134	175	WHITE, RED & BROWN LIMESTONE
145	165	WATER 2 GPM
165	175	WATER TRACE
175	205	GRAY SHALE & CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

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

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

STATE OF TEXAS WELL REPORT for Tracking #5580

Owner:	K. LINVEL BAKER	Owner Well #:	2
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 33' 58" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
---------------	----------	---------------	----------

Drilling Start Date: 2/20/2002 Drilling End Date: 2/20/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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: 104 ft. below land surface on 2002-02-20 Measurement Method: Unknown

Packers: POOR BOY 24'

Type of Pump: No Data

Well Tests: Estimated Yield: 5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
26, 49, 65, 123, 158	340 TDS, 13 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**

**DRAWER 217
HYE, TX 78635**

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	13	YELLOW CALICHE
13	26	RED SHALE
26	36	BROWN SAND
26	36	WATER 1.5 GPM
36	49	RED CLAY & SHALE
49	65	WATER 1 GPM
49	70	WHITE & RED SANDSTONE
65	70	WATER 1 GPM
70	75	YELLOW SHALE
75	94	GRAY LIMESTONE
94	110	GRAY CLAY & SHALE
110	123	BROWN CLAY
123	139	SANDY YELLOW, WHITE & RED LIMESTONE
123	139	WATER 1 GPM
139	152	RED CLAY
152	174	SANDY WHITE, YELLOW & RED LIMESTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

158	174	WATER 0.5 GPM
174	182	BROWN SHALE
182	205	GRAY SHALE

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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 #5581

Owner:	OLLIE BAKER	Owner Well #:	1
Address:	300 CR 344 MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	300 CR 344 MARBLE FALLS, TX 78654	Latitude:	30° 33' 18" N
Well County:	Burnet	Longitude:	098° 09' 13" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/20/2002** Drilling End Date: **2/20/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	165

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	30	2

Seal Method: **GRAVITY CEMENTED**

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

Sealed By: **Driller**

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: **124 ft. below land surface on 2002-02-20** Measurement Method: **Unknown**

Packers: **POOR BOY 30'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39, 88, 105	460 TDS, 17 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	39	RED CLAY
39	45	WATER 1 GPM
39	58	GRAY SANDSTONE
58	88	GRAY CLAY
88	105	WATER TRACE
88	122	RED, WHITE & YELLOW LIMESTONE
105	122	WATER TRACE
122	129	YELLOW SHALE & LIMESTONE
129	165	GRAY SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 40 .265
5	NEW	PLASTIC SLOTTED	40 130 .265
5	NEW	PLASTIC SOLID	130 165 .265

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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 #136415

Owner: **Smithwick Cemetery Association**

Owner Well #: **1**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	197
	6.75	197	202

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	57	197	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	57	20 cement

Seal Method: **trimmie pipe pressure
cemented**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

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

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

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **40 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
62	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	15	yellow sand
15	22	red shale
22	29	yellow sand & gravel
29	58	red clay
58	67	brown sand
62	82	water 2 gpm
67	94	gray limestone
94	132	gray clay
132	151	brown gravel & red shale
151	189	yellow shale
189	202	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 60 0.265
5	new	plastic slotted	60 - 157 0.265
5	new	plastic solid	157 - 197 0.265

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 #136428

Owner: **Richard Giesecke**

Owner Well #: **1**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **Double Creek Road
Marble Falls, TX 78654**

Latitude: **30° 34' 14" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/21/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	183

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	23	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **200**

Sealed By: **Driller**

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

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **19 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **poor boy 23'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 12 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
16, 35, 53, 100, 120	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	4	brown clay
4	19	brown sand
16	19	water 0.5 gpm
19	34	red clay
34	55	white & red limestone
35	36	water 2 gpm
53	54	water 5 gpm
55	77	gray & white limestone
77	95	gray clay
95	97	red clay
97	159	white, yellow & brown limestone
100	120	water 2 gpm
120	140	water 3 gpm
159	165	yellow shale
165	183	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 33 0.265
5	new	plastic slotted	33 - 93 0.265
5	new	plastic solid	93 - 103 0.265
5	new	plastic slotted	103 - 163 0.265
5	new	plastic solid	163 - 183 0.265

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STATE OF TEXAS WELL REPORT for Tracking #241041

Owner: **Travis Spaulding**

Owner Well #: **No Data**

Address: **P.O. Box 458
Spicewood, TX 78669**

Grid #: **57-31-6**

Well Location: **.6 mi. E of Smithwick Cemetery on FM
1431; .2 mi. W by creek
TX**

Latitude: **30° 34' 04" N**

Longitude: **098° 08' 22" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/12/2011**

Drilling End Date: **1/12/2011**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	40
6.75	40	41
6	41	70

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	3	1 Cement
3	40	3 Benseal

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **39 ft. below land surface on 2011-01-12**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **60**

Well Tests: **Jetted**

Yield: 3 GPM

Water Quality:

Strata Depth (ft.)	Water Type
56 - 59	good (680 ppmTDS)

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: **Virdell Drilling Inc.**
111 E. Grayson St.
Llano, TX 78643

Driller Name: **Taylor Virdell Jr.**

License Number: **1900**

Apprentice Name: **James Caleb Virdell**

Apprentice Number: **57668**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	10	Brown Clay & Gravel
10	13	Gravel & Sand
13	21	Red Clay
21	37	Brown Clay
37	60	Brown & Gray Limestone
60	68	Gray Limestone
68	70	Gray Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" N PVC +2 - 41		sch 40	

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STATE OF TEXAS WELL REPORT for Tracking #359280

Owner:	Corix Utilities	Owner Well #:	No Data
Address:	6836 Bee Cave Rd. Ste 209 Austin, TX 78746	Grid #:	57-31-9
Well Location:	Golf Course Drive Spicewood, TX 78669	Latitude:	30° 31' 16" N
		Longitude:	098° 08' 22" W
Well County:	Burnet	Elevation:	645 ft. above sea level

****This well has been plugged****

Plugging Report Tracking #93544

Type of Work:	New Well	Proposed Use:	Test Well
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Drilling Start Date: **11/4/2013** Drilling End Date: **4/7/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	36

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Annular Seal Data: **No Data**

Seal Method: **NA**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level:	5 ft. below land surface on 2013-11-06	Measurement Method:	Unknown
Packers:	Gravel		
Type of Pump:	Test	Pump Depth (ft.):	0
Well Tests:	Pump	Yield:	125 GPM

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
5-36	Good TDS 500

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: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	Brown Clay
5	10	Brown Clay Fine gravel
10	36	Medium gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
8"	New	PVC-SDR 17IB	0 to 16
8"	New	PVC-17 Slotted .035	16 to 36

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STATE OF TEXAS WELL REPORT for Tracking #398435

Owner: **John Lookenbach**

Owner Well #: **No Data**

Address: **10150 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10150 FM 1431
Burnet, TX 78611**

Latitude: **30° 33' 51" N**

Longitude: **098° 09' 27" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2015**

Drilling End Date: **6/29/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	230

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Portland

Seal Method: **Slurry**

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

Sealed By: **Apex Drilling INC.**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 165,160,30,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 3 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
165-210	Trinity TDS 720

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	15	Tan LS
15	32	Gray Tan LS
32	95	Tan LS W/ Sand
95	121	Red Clay
121	147	Gray Tan LS
147	165	Gray Clay
165	210	Gravel
210	225	Tan Clay
225	230	Gray Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5" (5 OD)	New	PVC	+2' to 170' SDR17
4.5" (5 OD)	New	Screen	170' to 210' .035
4.5" (5 OD)	New	PVC	210' to 230 SDR17

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**Texas Department of Licensing and Regulation
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STATE OF TEXAS WELL REPORT for Tracking #425171

Owner: **Shookies, LP**

Owner Well #: **1**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 41" N**

Longitude: **098° 08' 57" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/10/2016**

Drilling End Date: **6/10/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 74 ft.
Burlap/Neoprene at 80 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80 - 120	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	6	Sandy Gravel
6	8	Tan Clay
8	10	Red Clay
10	20	Tan LS Red Clay
20	27	Tan Sand
27	35	Tan LS
35	40	Fine Gray Sand w/ Clay
40	43	Gray SS
43	80	Gray Tan LS
80	81	Red SS
81	113	Gravel
113	117	Red Clay
117	119	Gravel
119	120	Turquoise Clay
120	140	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	80
4.5	Screen	New Plastic (PVC)	.035	80	120
4.5	Blank	New Plastic (PVC)	SDR17	120	140

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STATE OF TEXAS WELL REPORT for Tracking #425172

Owner: **Shookies, LP**

Owner Well #: **2**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 09' 07" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/13/2016**

Drilling End Date: **6/13/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	17	Portland 4 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 25 ft.
Burlap / Neoprene at 28 ft.
Burlap / Neoprene at 95 ft.
Burlap / Neoprene at 98 ft.
Burlap / Neoprene at 100 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
20 - 130	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Red SS
2	10	Tan Sand
10	17	Tan LS Red Clay
17	20	Gray Sand w/ Clay
20	22	Gravel
22	41	Red Clay
41	50	Tan LS
50	95	Gray Tan LS
95	106	Red SS
106	130	Gravel
130	131	Clay
131	150	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	18
4.5	Screen	New Plastic (PVC)	.035	18	30
4.5	Blank	New Plastic (PVC)	SDR17	30	110
4.5	Screen	New Plastic (PVC)	.035	110	130
4.5	Blank	New Plastic (PVC)	SDR17	130	150

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STATE OF TEXAS WELL REPORT for Tracking #425173

Owner: **Shookies, LP**

Owner Well #: **3**

Address: **407 Meadow Run Dr
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 48" N**

Longitude: **098° 09' 05" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/16/2016**

Drilling End Date: **6/16/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	155

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	Portland 3 Bags/Sacks

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 15 ft.
Burlap / Neoprene at 55 ft.
Burlap / Neoprene at 115 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
15 - 134	Trinity - TDS 640

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Red SS
15	27	Sand & Gravel
27	46	Red Clay
46	58	Tan LS W/ Sand
58	103	Gray Tan LS
103	107	Gravel
107	116	Red SS
116	134	Gravel
134	134	Turquoise Clay
135	155	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	15
4.5	Screen	New Plastic (PVC)	.035	15	35
4.5	Blank	New Plastic (PVC)	SDR17	35	55
4.5	Screen	New Plastic (PVC)	.035	55	75
4.5	Blank	New Plastic (PVC)	SDR17	75	115
4.5	Screen	New Plastic (PVC)	.035	115	135
4.5	Blank	New Plastic (PVC)	SDR17	135	155

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

STATE OF TEXAS WELL REPORT for Tracking #425175

Owner: **Shookies, LP**
Address: **407 Meadow Run Dr.
Friendswood, TX 77546**
Well Location: **10516 E FM 1431
Marble Falls, TX 78654**
Well County: **Burnet**
Number of Wells Drilled: **5**

Owner Well #: **5**
Grid #: **57-31-6**
Latitude: **30° 33' 35" N**
Longitude: **098° 09' 07" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/22/2016**

Drilling End Date: **6/22/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	160

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	18	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 20 ft.
Burlap / Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
18 - 140	Trinity - TDS 740

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	18	Sandy Loan
18	21	Sand & Gravel
21	35	Tan LS W/ Sand
35	48	Red Clay
48	58	Tan LS W/ Sand
58	105	Gray LS
105	107	Red SS
107	140	Gravel
140	141	Turquoise Clay
141	160	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	120
4.5	Screen	New Plastic (PVC)	.035	120	140
4.5	Blank	New Plastic (PVC)	SDR17	140	160

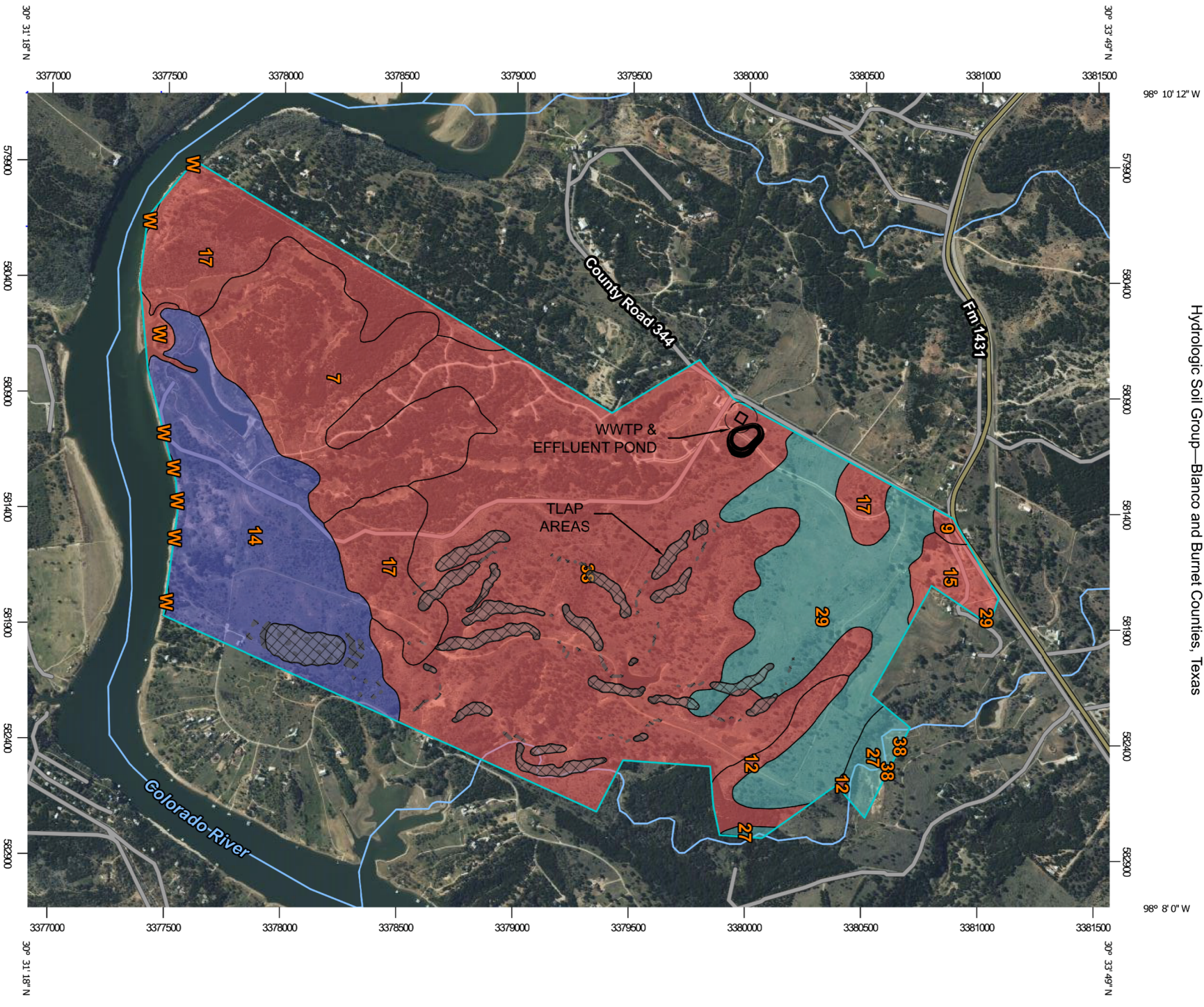
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

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

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

Hydrologic Soil Group—Blanco and Burnet Counties, Texas



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

4/23/2024
Page 1 of 4

MAP LEGEND

Area of Interest (AOI)









Area of Interest (AOI)

Soils

Soil Rating Polygons

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines

-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points

-  A
-  A/D
-  B
-  B/D



C



C/D




D








Not rated or not available


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 1:31,700.

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: Blanco and Burnet Counties, Texas

Survey Area Data: Version 20, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 15, 2019—Dec 19, 2019

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7	Brackett-Real association, 10 to 30 percent slopes	D	179.1	12.4%
9	Doss silty clay, moist, 1 to 5 percent slopes	D	3.1	0.2%
12	Eckrant-Rock outcrop association, 8 to 30 percent slopes	D	23.7	1.6%
14	Heaton loamy fine sand, 1 to 5 percent slopes	B	216.6	15.0%
15	Hensley loam, 1 to 3 percent slopes	D	20.9	1.4%
17	Hensley gravelly loam, 1 to 8 percent slopes	D	159.5	11.0%
27	Lewisville clay loam, 1 to 3 percent slopes	C	19.2	1.3%
29	Luckenbach clay loam, 1 to 3 percent slopes	C	183.5	12.7%
38	Purves clay, 1 to 8 percent slopes	D	632.3	43.7%
W	Water	D	8.3	0.6%
Totals for Area of Interest			1,446.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Soil Features

This table gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage, or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, saturated hydraulic conductivity (Ksat), content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Report—Soil Features

Soil Features—Blanco and Burnet Counties, Texas									
Map symbol and soil name	Restrictive Layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		<i>Low-RV-High</i>	<i>Range</i>		<i>Low-High</i>	<i>Low-High</i>			
		<i>In</i>	<i>In</i>		<i>In</i>	<i>In</i>			
7—Brackett-Real association, 10 to 30 percent slopes									
Brackett	Paralithic bedrock	10-14-20	—	Weakly coherent	0	0	None	Moderate	Low
Real	Paralithic bedrock	8- 15-19	—	Weakly coherent	0	0	None	Moderate	Low
9—Doss silty clay, moist, 1 to 5 percent slopes									
Doss	Paralithic bedrock	11-17-20	—	Weakly coherent	0	0	None	High	Low
12—Eckrant-Rock outcrop association, 8 to 30 percent slopes									
Eckrant	Lithic bedrock	4- 12-20	—	Indurated	0	0	None	High	Low
Rock outcrop	Lithic bedrock	0- 0-2	—	Indurated	0	0			
14—Heaton loamy fine sand, 1 to 5 percent slopes									
Heaton		—	—		0	0	None	Moderate	Low

Soil Features--Blanco and Burnet Counties, Texas									
Map symbol and soil name	Restrictive Layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		<i>Low-RV-High</i>	<i>Range</i>		<i>Low-High</i>	<i>Low-High</i>			
15—Hensley loam, 1 to 3 percent slopes									
Hensley	Lithic bedrock	10-15-20	—	Indurated	0	0	None	Moderate	Low
17—Hensley gravelly loam, 1 to 8 percent slopes									
Hensley	Lithic bedrock	10-18-20	—	Indurated	0	0	None	High	Low
27—Lewisville clay loam, 1 to 3 percent slopes									
Lewisville		—	—		0	0	None	High	Low
29—Luckenbach clay loam, 1 to 3 percent slopes									
Luckenbach		—	—		0	0	None	High	Low
38—Purves clay, 1 to 8 percent slopes									
Purves	Lithic bedrock	8- 16-20	—	Indurated	0	0	None	High	Low
W—Water									
Water		—	—		—	—			

Data Source Information

Soil Survey Area: Blanco and Burnet Counties, Texas

Survey Area Data: Version 20, Sep 5, 2023



Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The content of organic matter in a soil can be maintained by returning crop residue to the soil.

Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and Ksat. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (<http://soils.usda.gov>)

Report—Physical Soil Properties

Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/in</i>	<i>Pct</i>	<i>Pct</i>					
7—Brackett-Real association, 10 to 30 percent slopes														
Brackett	0-6	20-34- 45	20-36- 53	27-30- 35	1.30-1.40 -1.50	4.00-9.00-14.00	0.09-0.13-0.16	1.2- 2.6- 4.5	1.0- 2.0- 4.0	.15	.20	2	5	56
	6-14	20-34- 50	15-36- 53	18-30- 35	1.30-1.43 -1.55	4.00-9.00-14.00	0.09-0.13-0.16	0.5- 2.3- 4.3	0.5- 1.3- 2.0	.10	.20			
	14-60	—	—	—	—	0.42-7.20-14.00	—	—	—					
Real	0-8	20-35- 45	28-35- 52	27-30- 35	1.25-1.40 -1.55	4.00-9.00-14.00	0.04-0.08-0.10	1.2- 2.5- 3.8	2.0- 6.0- 9.0	.10	.17	2	5	56
	8-15	20-35- 45	15-35- 53	22-30- 40	1.25-1.40 -1.55	4.00-9.00-14.00	0.04-0.08-0.10	0.2- 1.1- 3.3	1.0- 4.5- 8.0	.02	.17			
	15-60	—	—	—	—	0.42-7.70-14.00	—	—	—					
9—Doss silty clay, moist, 1 to 5 percent slopes														
Doss	0-9	5- 7- 20	40-49- 55	40-44- 48	1.25-1.35 -1.45	1.40-2.70-4.00	0.12-0.14-0.16	3.0- 5.4- 6.7	1.0- 2.0- 3.0	.28	.28	2	4	86
	9-17	5- 7- 30	35-49- 60	35-44- 48	1.20-1.25 -1.45	1.40-2.70-4.00	0.12-0.14-0.16	3.0- 4.4- 6.3	1.0- 2.0- 3.0	.28	.28			
	17-80	—	—	—	—	0.42-7.20-14.00	—	—	—					

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
12—Eckrant-Rock outcrop association, 8 to 30 percent slopes														
Eckrant	0-7	2-18- 25	30-40- 52	38-42- 50	1.05-1.15 -1.40	1.40-2.70-4.00	0.03-0.09-0.12	1.8- 3.5- 6.2	2.0- 6.0-12.0	.05	.15	1	6	48
	7-12	2-18- 25	30-37- 54	40-45- 55	1.05-1.15 -1.40	1.40-2.70-4.00	0.03-0.09-0.12	1.2- 4.0- 5.9	2.0- 5.0- 8.0	.02	.15			
	12-80	—	—	—	—	0.42-2.70-14.00	—	—	—					
Rock outcrop	0-80	—	—	—	—	0.42-71.00-141.00	—	—	—				8	0
14—Heaton loamy fine sand, 1 to 5 percent slopes														
Heaton	0-22	72-80- 89	2-12- 26	2- 8- 14	1.58-1.59 -1.60	42.00-91.50-141.00	0.05-0.08-0.11	0.0- 0.4- 0.9	0.5- 0.8- 1.0	.15	.15	5	2	134
	22-68	45-55- 74	2-17- 28	24-28- 35	1.59-1.61 -1.62	4.00-9.00-14.00	0.10-0.13-0.15	1.7- 2.1- 2.8	0.1- 0.3- 0.5	.20	.20			
	68-80	45-55- 74	2-17- 28	24-28- 35	1.59-1.61 -1.62	4.00-9.00-14.00	0.10-0.13-0.15	1.6- 2.1- 2.8	0.1- 0.3- 0.5	.20	.20			

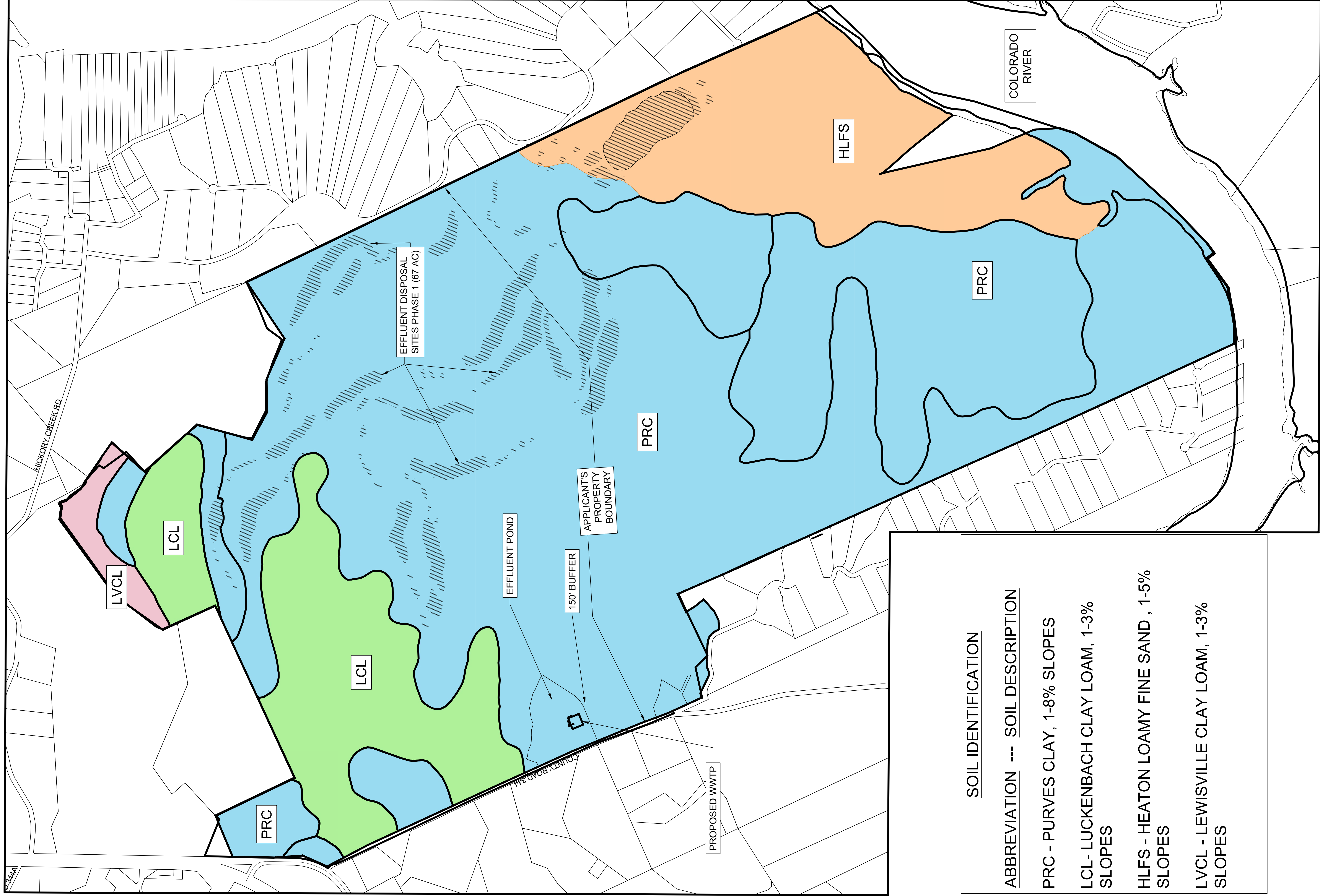
Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
15—Hensley loam, 1 to 3 percent slopes														
Hensley	0-5	23-39- 52	28-39- 50	15-22- 27	1.30-1.42 -1.49	4.00-9.00-14.00	0.13-0.16-0. 20	1.0- 1.7- 3.0	0.5- 1.3- 2.0	.43	.43	1	7	38
	5-15	5-30- 45	2-32- 45	35-38- 55	1.43-1.50 -1.56	0.42-0.91-1.40	0.12-0.14-0. 20	3.5- 4.3- 8.7	0.1- 0.6- 1.0	.24	.32			
	15-60	—	—	—	—	0.42-2.70-14.00	—	—	—					
17—Hensley gravelly loam, 1 to 8 percent slopes														
Hensley	0-5	23-39- 52	28-39- 50	15-22- 27	1.30-1.42 -1.49	4.00-9.00-14.00	0.13-0.16-0. 20	1.0- 1.6- 2.8	0.5- 1.3- 2.0	.28	.43	1	7	38
	5-18	5-27- 45	2-28- 45	35-45- 55	1.38-1.47 -1.56	0.42-0.91-1.40	0.12-0.14-0. 20	4.0- 6.2- 8.7	0.1- 0.6- 1.0	.28	.28			
	18-60	—	—	—	—	0.42-2.70-14.00	—	—	—					
27—Lewisville clay loam, 1 to 3 percent slopes														
Lewisville	0-18	20-31- 40	20-33- 53	27-36- 40	1.25-1.30 -1.40	1.40-2.70-4.00	0.16-0.18-0. 20	2.5- 4.7- 6.0	1.0- 2.0- 3.0	.24	.24	5	4L	86
	18-58	5-30- 40	20-33- 65	30-37- 45	1.30-1.35 -1.45	1.40-2.70-4.00	0.14-0.16-0. 18	1.8- 3.7- 5.9	1.0- 1.5- 2.0	.32	.32			
	58-80	5-29- 40	20-32- 65	30-39- 50	1.30-1.40 -1.50	1.40-2.70-4.00	0.14-0.16-0. 18	1.4- 3.6- 6.7	0.5- 0.8- 1.0	.32	.32			

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
29— Luckenbach clay loam, 1 to 3 percent slopes														
Luckenbach	0-17	20-35- 45	20-34- 53	27-31- 35	1.20-1.25 -1.45	4.00-9.00-14.00	0.15-0.17-0.18	3.7- 4.8- 5.9	1.0- 2.0- 3.0	.28	.28	5	6	48
	17-25	15-26- 45	10-29- 45	35-45- 55	1.30-1.35 -1.55	1.40-2.70-4.00	0.13-0.16-0.18	4.4- 7.2-10.0	1.0- 1.5- 2.0	.20	.20			
	25-36	15-26- 45	10-31- 45	35-43- 55	1.30-1.40 -1.55	1.40-2.70-4.00	0.13-0.16-0.18	3.9- 6.3- 9.5	0.5- 1.0- 1.5	.24	.24			
	36-80	15-29- 45	10-32- 50	30-39- 50	1.40-1.50 -1.60	1.40-2.70-4.00	0.12-0.15-0.18	1.7- 4.1- 7.1	0.1- 0.4- 0.8	.28	.28			
38—Purves clay, 1 to 8 percent slopes														
Purves	0-9	8-25- 40	5-28- 40	40-47- 55	1.10-1.27 -1.40	0.42-0.91-1.40	0.08-0.15-0.18	3.7- 8.0-11.4	1.0- 3.0- 5.0	.20	.20	1	4	86
	9-16	8-26- 40	6-29- 52	40-45- 55	1.10-1.30 -1.45	0.42-0.91-1.40	0.08-0.12-0.15	2.7- 5.6-11.1	1.0- 2.5- 4.0	.10	.24			
	16-40	—	—	—	—	0.42-2.70-14.00	—	—	—					
W—Water														
Water	—	—	—	—	—	—	—	—	—					

Data Source Information

Soil Survey Area: Blanco and Burnet Counties, Texas
 Survey Area Data: Version 20, Sep 5, 2023





SOIL IDENTIFICATION

ABBREVIATION --- SOIL DESCRIPTION

- PRC - PURVES CLAY, 1-8% SLOPES
- LCL- LUCKENBACH CLAY LOAM, 1-3% SLOPES
- HLFS - HEATON LOAMY FINE SAND , 1-5% SLOPES
- LVCL - LEWISVILLE CLAY LOAM, 1-3% SLOPES

APPENDIX Q

ENGINEERING REPORT WITH WATER BALANCE AND STORAGE VOLUME CALCULATIONS

DOMESTIC WORKSHEET 3.1 SURFACE LAND DISPOSAL OF EFFLUENT

ENGINEERING REPORT

Water balance and storage volume calculations have been completed for flows of all phases. The following is a summary providing references/sources for the data used to develop the tables.

Water Balance Table Column	Assumptions and References/Sources
Column 2: Average Rainfall	Data obtained from Texas Water Development Board Quadrangle 809.
Column 3: Average Runoff	Curve number (CN) was obtained from SCS Technical Release No. 55. A curve number of 75 was used, considering soil type.
Column 4: Average Infiltrated Rainfall	Obtained by subtracting average runoff from average rainfall.
Column 5: Evapotranspiration	Data obtained from Texas Board of Water Engineers, Bulletin 6015: Consumptive Use of Water by Major Crops in Texas, Table 5. Used 90% of the listed values for alfalfa in area 7C.
Column 6: Required Leaching	Ce (electrical conductivity) – a value of 2 mmhos/cm was used. Ci (maximum allowable conductivity of soil) = 8 based on 30 TAC 309.20.
Column 7: Total Water Needs	Obtained by adding evapotranspiration and required leaching.
Column 8: Effluent Needed in Root Zone	Obtained by subtracting average infiltrated rainfall from total water needs (assume zero if value is less than zero).
Column 9: Net Evaporation from Reservoir Surface	Data obtained from Texas Water Development Board Quadrangle 809.
Column 10: Effluent Applied to Land	Obtained by dividing the effluent needed in root zone by the irrigation efficiency, K, assumed to be 0.85 or 85%.
Column 11: Consumption from Reservoir	Obtained by adding net evaporation and effluent applied to land.
Column 15: Rainfall (Maximum)	Data on maximum rainfall year in the past 25 years was obtained from Texas Water Development Board Quadrangle 809 Precipitation (inches) from 1998 to 2022, 51.84 in 2007. The total was distributed proportionally to monthly average rainfall.
Column 16: Runoff (Maximum)	Calculated as shown above for Column 3 using maximum rainfall numbers from Column 14.
Column 17: Infiltrated Rainfall	Obtained by subtracting maximum runoff (Column 15) from maximum rainfall (Column 14).
Column 18: Available Water	Obtained by adding effluent received (Column 13) and infiltrated rainfall (Column 16).
Column 20: Minimum Net Evaporation	Data on minimum net evaporation year in the past 25 years was obtained from Texas Water Development Board Quadrangle 809, Monthly Evaporation (inches) from 1998 to 2022.
Column 21: Storage	Obtained by subtracting lowest annual net evaporation (Column 20) from effluent received, then subtracting total water needs (Column 7) – infiltrated rainfall (Column 17) divided by k (irrigation efficiency of 0.85).

	If total water needs (Column 7) – infiltrated rainfall (Column 17) divided by k is <0, then storage = effluent received -Minimum Net evaporation.
Column 22: Accumulated Storage	Summation beginning with the first consecutive month of possible values from Column 21.

Smithwick Tract TLAP Summary

LJA Engineering, Inc.

Apr-24

MONTHLY WATER BALANCE, TABLE 1
(UNITS IN INCHES)

1	a 2	b 3	Ri 4	c 5	d 6	7	8	e 9	f 10	g 11
Month	Avg. Rain	Avg. Runoff	Avg. Infiltrated Rainfall	Evapotran- spiration	Required Leaching	Total Water Needs	Effluent Needed in Root Zone	Net Evaporation from Reservoir Surface	Effluent Applied to Land	Consumption from Reservoir
January	1.78	0.31	1.47	1.35	0.0000	1.3500	0.0000	-0.0052	0.0000	-0.0052
February	1.54	0.21	1.33	1.35	0.0038	1.3538	0.0229	0.0031	0.0269	0.0301
March	2.57	0.75	1.82	3.42	0.3196	3.7396	1.9176	0.0530	2.2560	2.3090
April	2.09	0.47	1.62	4.05	0.4857	4.5357	2.9141	0.0652	3.4284	3.4936
May	4.13	1.85	2.27	7.47	1.0393	8.5093	6.2355	0.0164	7.3359	7.3523
June	2.76	0.87	1.89	7.74	1.1696	8.9096	7.0178	0.1091	8.2562	8.3654
July	2.21	0.54	1.68	8.01	1.2668	9.2768	7.6008	0.1988	8.9422	9.1410
August	2.02	0.43	1.59	5.04	0.6906	5.7306	4.1439	0.1899	4.8752	5.0650
September	3.07	1.08	2.00	6.21	0.8428	7.0528	5.0571	0.0754	5.9495	6.0249
October	3.47	1.36	2.11	4.86	0.5498	5.4098	3.2986	0.0178	3.8808	3.8985
November	2.42	0.66	1.77	2.43	0.1330	2.5630	0.7978	0.0097	0.9386	0.9483
December	1.36	0.14	1.22	1.08	0.0000	1.0800	0.0000	-0.0042	0.0000	-0.0042
TOTAL	29.42	8.66	20.76	53.01	6.50	59.51	39.01	0.73	45.89	46.62

Smithwick Tract TLAP Summary

LJA Engineering, Inc.

Apr-24

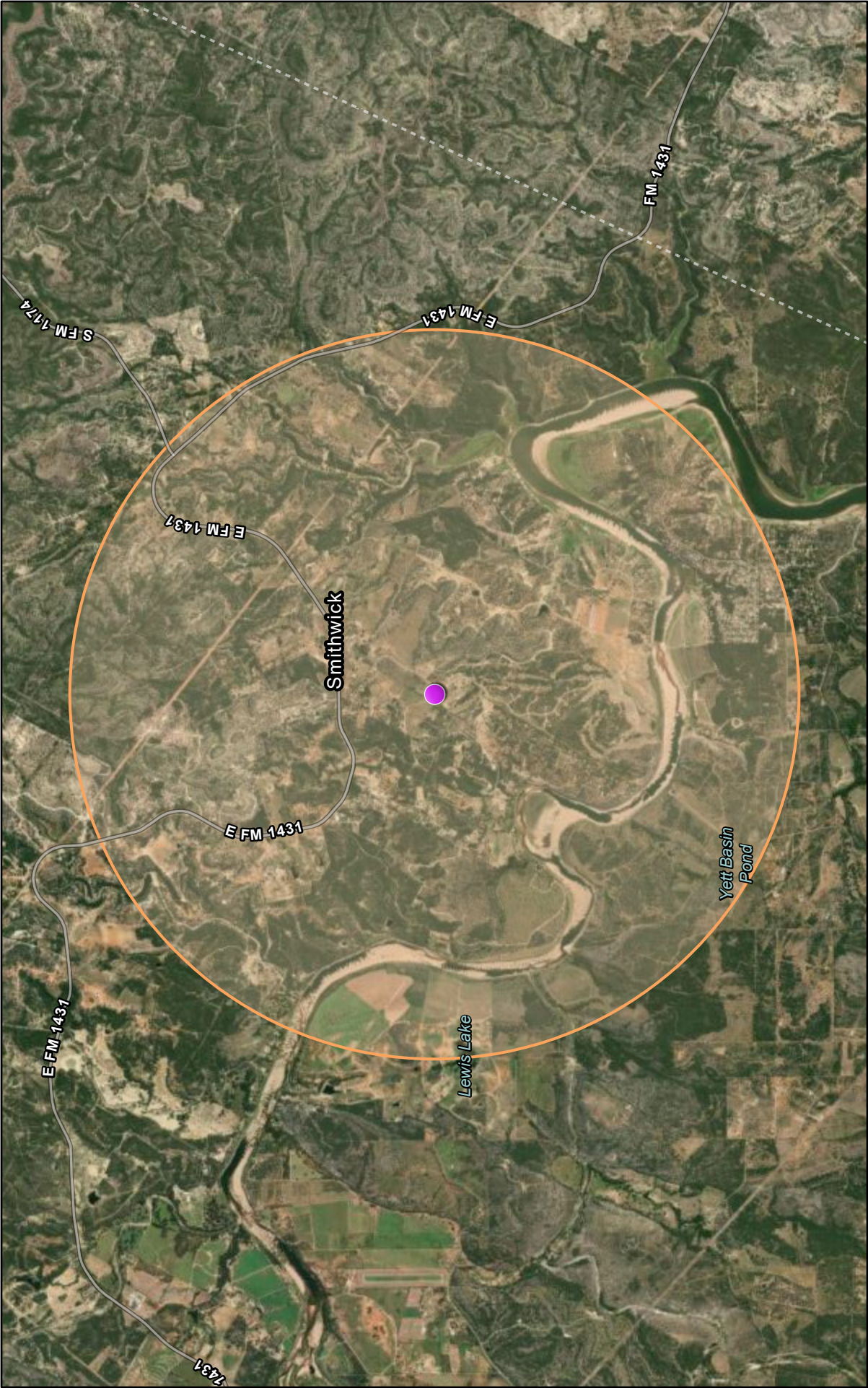
STORAGE VOLUME CALCULATION, TABLE 2
(UNITS IN INCHES)

13	a 14	b 15	c 16	17	18	d 19	20	e 21	f 21
Month	Mean Rainfall Distribution (%)	Rainfall (Max, in.)	Runoff (Max, in.)	Infiltrated Rainfall (Max, in.)	Total Avail. H2O (in.)	Mean Net Evaporation Distribution (%)	Minimum Net Evaporation Reservoir Surface (in.)	Storage (in.)	Accumulated Storage (In-Ac/Ac)
January	6.05%	2.85	0.93	1.92	4.92	-0.13	0.03	2.9673	8.0158
February	5.23%	2.46	0.68	1.78	4.78	-0.25	0.06	2.9367	10.9525
March	8.74%	4.12	1.85	2.27	5.27	-0.38	0.10	1.1748	12.1273
April	7.11%	3.35	1.27	2.08	5.08	-0.67	0.17	-0.0640	12.0634
May	14.03%	6.61	3.94	2.67	5.67	-0.39	0.10	-3.9649	8.0984
June	9.39%	4.42	2.09	2.34	5.34	-1.08	0.28	-5.0109	3.0875
July	7.52%	3.54	1.41	2.13	5.13	-1.25	0.32	-5.7288	-2.6413
August	6.86%	3.23	1.19	2.04	5.04	-1.32	0.34	-1.6786	-4.3199
September	10.45%	4.92	2.49	2.43	5.43	-0.54	0.14	-2.5752	-4.2538
October	11.79%	5.55	3.02	2.53	5.53	-0.22	0.06	-0.4391	-0.4391
November	8.24%	3.88	1.67	2.22	5.22	-0.20	0.05	2.5407	2.1015
December	4.61%	2.17	0.51	1.66	4.66	-0.21	0.05	2.9469	5.0484
TOTAL	100%	47.12	21.04	26.08	62.08	-6.63			12.13

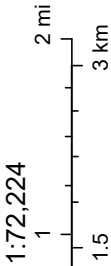
Storage Volume Req'd. (ac-ft)	Storage Volume Req'd. (gal)	Design Storage Volume (gal)
67.71	22,062,138.70	22,063,000.00

APPENDIX R
REGIONALIZATION

Wastewater Outfalls in Texas (TCEQ) Custom Print



4/23/2024, 10:46:47 AM



July 11 2024

Abesha Michael
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

Re: Application for Proposed Permit No.: WQ0016564001
Applicant Name: US Trinity Smithwick, LLC (CN606185817)
Site Name: Smithwick Tract WWTP (RN111999264)
Type of Application: New
LJA Project No. A632

Dear Abesha:

Please find the responses related to the permit application for the Smithwick Tract Development received July 8th, 2024 below.

1. Section 9, items D & E on page 8 of the administrative report. Thank you for addressing these items. However, the owner of land where the facility is located and the effluent disposal site is not the applicant, US Trinity Smithwick, LLC. Please submit a deed or long-term lease agreement signed between the owner of the land, Mr. James Halton and the applicant, if not please update items D & E to US Trinity Smithwick, LLC.

Response: James Haltom is the owner of US Trinity Smithwick, LLC, and has signing authority for US Trinity Smithwick, LLC. All land where the treatment facility and disposal sites are proposed is owned by US Trinity Smithwick, LLC.

2. Section 1. Affected landowners' information, item A on page 17 of the administrative report. Thank you for submitting the landowner's map. However, the map submitted is insufficient. The south side of the applicant property, between landowner #01 and #56 is not designated, please submit an updated landowner's map.

Response: Item A of the administrative report, which includes the affected landowners' information and map, has been updated. Please see the attached map.

3. Section 1. Affected landowners' information, item B on page 17 of the administrative report: Thank you for the cross-referenced mailing list. However, the name and addresses of property owners #01, #27 and #42 are indicated as 'NA', we need the names and the address of all affected property owners, and please update the cross-referenced mailing list with the corresponding number and mailing address only (no need for property ID number on the list).

Response: The property owners listed as #01, #27, and #42 have no owner listed in the Burnet County Appraisal District database. Therefore, they are listed as N/A.

4. Section 1. Affected landowners' information, item C on page 17 of the administrative report. Thank you for the affected landowners mailing labels. Please email the labels in a Word format, Avery 5160 label format (3 columns across, 10 columns down) according to the mailing list. To ensure we can use the media to print labels, they must be evenly spaced, so that each address prints on one label. Please remove if there is any additional information included with the list, no punctuation.

Response: The updated landowner labels have been included in this response.

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.

Response: No errors or omissions were found.

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.

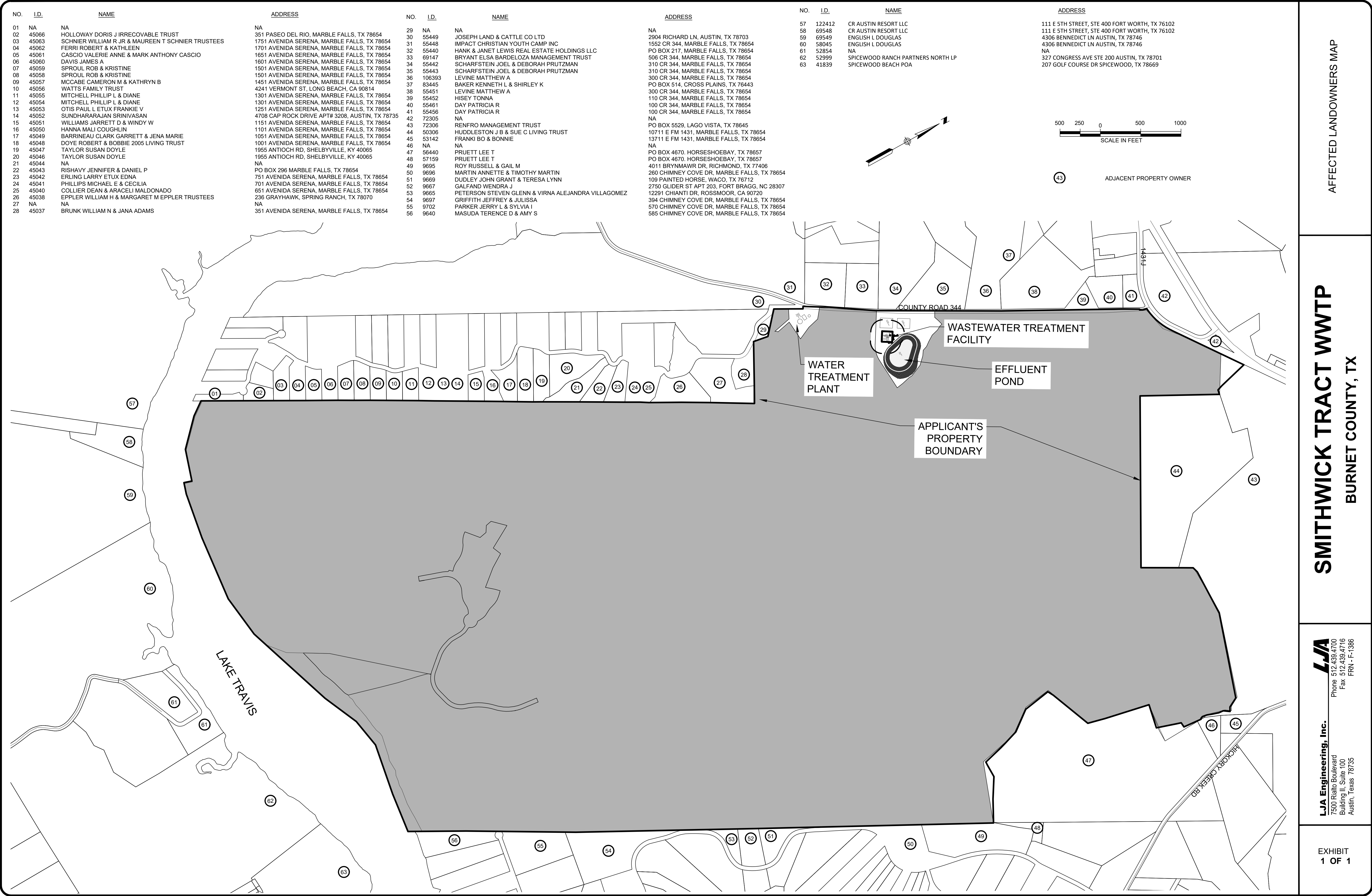
Response: The Spanish NORI is included with this submittal.

Should you have any questions or need any additional information, please do not hesitate to call.

Sincerely,

A handwritten signature in dark ink, reading 'Lauren Crone' in a cursive script.

Lauren Crone, P.E.



Map Number	Property ID Number	Landowner Name	Landowner Address (1)
1	N/A	N/A	
2	45066	HOLLOWAY DORIS J IRRECOVABLE TRUST	351 PASEO DEL RIO, MARBLE FALLS, TX 78654
3	45063	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES	1751 AVENIDA SERENA, MARBLE FALLS, TX 78654
4	45062	FERRI ROBERT & KATHLEEN	1701 AVENIDA SERENA, MARBLE FALLS, TX 78654
5	45061	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO	1651 AVENIDA SERENA, MARBLE FALLS, TX 78654
6	45060	DAVIS JAMES A	1601 AVENIDA SERENA, MARBLE FALLS, TX 78654
7	45059	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
8	45058	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
9	45057	MCCABE CAMERON M & KATHRYN B	1451 AVENIDA SERENA, MARBLE FALLS, TX 78654
10	45056	WATTS FAMILY TRUST	4241 VERMONT ST, LONG BEACH, CA 90814
11	45055	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
12	45054	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
13	45053	OTIS PAUL L ETUX FRANKIE V	1251 AVENIDA SERENA, MARBLE FALLS, TX 78654
14	45052	SUNDHARARAJAN SRINIVASAN	4708 CAP ROCK DRIVE APT# 3208, AUSTIN, TX 78735
15	45051	WILLIAMS JARRETT D & WINDY W	1151 AVENIDA SERENA, MARBLE FALLS, TX 78654
16	45050	HANNA MALI COUGHLIN	1101 AVENIDA SERENA, MARBLE FALLS, TX 78654
17	45049	BARRINEAU CLARK GARRETT & JENA MARIE	1051 AVENIDA SERENA, MARBLE FALLS, TX 78654
18	45048	DOYE ROBERT & BOBBIE 2005 LIVING TRUST	1001 AVENIDA SERENA, MARBLE FALLS, TX 78654
19	45047	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
20	45046	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
21	45044	N/A	
22	45043	RISHAVY JENNIFER & DANIEL P	PO BOX 296, MARBLE FALLS, TX 78654
23	45042	ERLING LARRY ETUX EDNA	751 AVENIDA SERENA, MARBLE FALLS, TX 78654
24	45041	PHILLIPS MICHAEL E & CECILIA	701 AVENIDA SERENA, MARBLE FALLS, TX 78654
25	45040	COLLIER DEAN & ARACELI MALDONADO	651 AVENIDA SERENA, MARBLE FALLS, TX 78654
26	45038	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES	236 GRAYHAWK, SPRING RANCH, TX 78070
27	N/A	N/A	
28	45037	BRUNK WILLIAM N & JANA ADAMS	351 AVENIDA SERENA, MARBLE FALLS, TX 78654
29	NA	N/A	
30	55449	JOSEPH LAND & CATTLE CO LTD	2904 RICHARD LN, AUSTIN, TX 78703
31	55448	IMPACT CHRISTIAN YOUTH CAMP INC	1552 CR 344, MARBLE FALLS, TX 78654
32	55440	HANK & JANET LEWIS REAL ESTATE HOLDINGS LLC	PO BOX 217, MARBLE FALLS, TX 78654
33	69147	BRYANT ELSA BARDELOZA MANAGEMENT TRUST	506 CR 344, MARBLE FALLS, TX 78654
34	55442	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
35	55443	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
36	106393	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
37	83445	BAKER KENNETH L & SHIRLEY K	PO BOX 514, CROSS PLAINS, TX 76443
38	55451	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
39	55452	HISEY TONNAHISEY TONNA	110 CR 344, MARBLE FALLS, TX 78654
40	55461	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
41	55456	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
42	72305	N/A	
43	72306	RENFRO MANAGEMENT TRUST	PO BOX 5529, LAGO VISTA, TX 78645
44	50306	HUDDLESTON J B & SUE C LIVING TRUST	10711 E FM 1431, MARBLE FALLS, TX 78654
45	53142	FRANKI BO & BONNIE	13711 E FM 1431, MARBLE FALLS, TX 78654
46	N/A	N/A	
47	56440	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR, RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE, WACO, TX 76712
52	9667	GALFAND WENDRA J	2750 GLIDER ST APT 203, FORT BRAGG, NC 28307
53	9665	PETERSON STEVEN GLENN & VIRNA ALEJANDRA VILLAGOMEZ	12291 CHIANTI DR, ROSSMOOR, CA 90720
54	9697	GRIFFITH JEFFREY & JULISSA	394 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
55	9702	PARKER JERRY L & SYLVIA I	570 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
57	122412	CR AUSTIN RESORT LLC	111 E 5TH STREET, STE 400, FORT WORTH, TX 76102
58	69548	CR AUSTIN RESORT LLC	111 E 5TH STREET, STE 400, FORT WORTH, TX 76102
59	69549	ENGLISH L DOUGLAS	4306 BENNETT LN, AUSTIN, TX 78746
60	58045	ENGLISH L DOUGLAS	4306 BENNETT LN, AUSTIN, TX 78746
61	52854	N/A	
62	52999	SPICEWOOD RANCH PARTNERS NORTH LP	327 CONGRESS AVE STE 200, AUSTIN, TX 78701
63	41839	SPICEWOOD BEACH POA	207 GOLF COURSE DR, SPICEWOOD, TX 78669

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12291 CHIANTI DR
ROSSMOOR CA 90720

GRIFFITH JEFFREY & JULISSA
394 CHIMNEY COVE DR
MARBLE FALLS TX 78654

PARKER JERRY L & SYLVIA I
570 CHIMNEY COVE DR
MARBLE FALLS TX 78654

MASUDA TERENCE D & AMY S
585 CHIMNEY COVE DR
MARBLE FALLS TX 78654

CR AUSTIN RESORT LLC
111 E 5TH STREET STE 400
FORT WORTH TX 76102

ENGLISH L DOUGLAS
4306 BENNEDICT LN
AUSTIN TX 78746

SPICEWOOD RANCH PARTNERS NORTH
LP
327 CONGRESS AVE STE 200
AUSTIN TX 78701

SPICEWOOD BEACH POA
207 GOLF COURSE DR
SPICEWOOD TX 78669

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ00_____

SOLICITUD. US Trinity Smithwick, LLC, 200 Highland Circle, Argyle, Texas 76226 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No.WQ00 16564001 de disposición de aguas residuales] para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 180,000 galones por día mediante aplicación superficial en 70.2 acres de tierra. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en aproximadamente a 0,25 millas al suroeste de la intersección de Country Road 344 y Old RN 1431, cerca la ciudad de Marble Falls, en el condado de Burnet, Texas 78654. La TCEQ recibió esta solicitud el día el 25 de junio de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en Ayuntamiento de Marble Falls, tablón de anuncios públicos, 800 3rd Street, Marble Falls, Texas antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.15286,30.553725&level=18>

Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange. El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.

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

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

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

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas

correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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 US Trinity Smithwick, LLC a la dirección indicada arriba o llamando a Senora Lauren Crone, P.E al (512) 439-4700.

Fecha de emisión _____ *[Date notice issued]*

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

FOR

SMITHWICK TRACT WASTEWATER TREATMENT PLANT

JUNE 2024

**PREPARED FOR
US TRINITY SMITHWICK LLC
200 HIGHLAND CIRCLE
Argyle, TX 76226
(940) 240- 5800**

PREPARED BY

**LJA Engineering, Inc.
7500 RIALTO BLVD
BUILDING II, SUITE 100
Austin, Texas 78735
(512) 439-4700**



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EXHIBIT 1

ADMINISTRATIVE REPORTS 1.0 AND 1.1



APPLICANT: US Trinity Smithwick, LLC

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

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**APPLICATION FOR A DOMESTIC WASTEWATER PERMIT
ADMINISTRATIVE REPORT 1.0**

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Section 1. Application Fees (Instructions Page 29)

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

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input checked="" type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number:
Check/Money Order Amount:
Name Printed on Check:
EPAY Voucher Number: 710776, 710777
Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 29)

- | | |
|---|---|
| <input type="checkbox"/> New TPDES | <input checked="" type="checkbox"/> New TLAP |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal | <input type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal |
| <input type="checkbox"/> Renewal without changes | <input type="checkbox"/> Minor Modification of permit |

For amendments or modifications, describe the proposed changes: N/A - New Permit

For existing permits:

Permit Number: WQ00
EPA I.D. (TPDES only): TX
Expiration Date:

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

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

Transaction Information

Trace Number: 582EA000615370

Date: 06/25/2024 10:53 AM

Payment Method: CC - Authorization 0000025525

ePay Actor: LAUREN CRONE

Actor Email: lcrone@lja.com

IP: 170.55.94.226

TCEQ Amount: \$850.00

Texas.gov Price: \$869.38*

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

Payment Contact Information

Name: STEPHEN D MILLER

Company: LJA ENGINEERING INC

Address: 7500 RIALTO BOULEVARD BUILDING, AUSTIN, TX 78735

Phone: 512-439-4700

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
710776	WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - NEW AND MAJOR AMENDMENTS		\$800.00
710777	30 TAC 305.53B WQ NOTIFICATION FEE		\$50.00
TCEQ Amount:			\$850.00

ePay AgainExit ePay

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

Section 3. Facility Owner (Applicant) and Co-Applciant Information (Instructions Page 29)

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

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

US Trinity Smithwick, LLC

(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:

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., Ms., Miss): Mr.

First and Last Name: James Haltom

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

Title: Owner

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

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

(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-applciant 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:

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., Ms., Miss):

First and Last Name:

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

Title:

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

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: Appendix A

Section 4. Application Contact Information (Instructions Page 30)

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., Ms., Miss): Ms.

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd., Building II, Suite 100

City, State, Zip Code: Austin, Texas, 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: lcrone@lja.com

Check one or both: ☒ Administrative Contact

☒ Technical Contact

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

First and Last Name: Daniel Ryan

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

Title: Senior Vice President

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd, Bldg II Suite 100

City, State, Zip Code: Austin, Texas 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: dryan@lja.com

Check one or both: ☐ Administrative Contact

☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: smithwick@ustrinity.com

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering, Inc.

Mailing Address: 7500 Rialto Boulevard, Building II, Suite 100

City, State, Zip Code: Austin, Texas 78735

Phone No.: 512-439-4737 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: [REDACTED]

Section 6. Billing Information (Instructions Page 30)

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

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.: [REDACTED]

Fax No.: [REDACTED]

E-mail Address: smithwick@ustrinity.com

Section 7. DMR/MER Contact Information (Instructions Page 31)

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

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

First and Last Name: James Haltom

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

Title: Owner

Organization Name: US Trinity Smithwick, LLC.

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 78226

Phone No.: 940-240-5800 Ext.:

Fax No.:

E-mail Address: smithwick@ustrinity.com

DMR data is required to be submitted electronically. Create an account at:

<https://www.tceq.texas.gov/permitting/netdmr/netdmr.html>.

Section 8. Public Notice Information (Instructions Page 31)

A. Individual Publishing the Notices

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Mailing Address: 7500 Rialto Blvd., Building II, Suite 100

City, State, Zip Code: Austin, Texas, 78735

Phone No.: 512-439-4700 Ext.:

Fax No.:

E-mail Address: lcrone@lja.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact person to be listed in the Notices

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

First and Last Name: Lauren Crone

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

Title: Senior Project Manager

Organization Name: LJA Engineering

Phone No.: 512-439-4700 Ext.:

E-mail: lcrone@lja.com

D. Public Viewing Information

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

Public building name: Marble Falls City Hall

Location within the building: Public Notices Board

Physical Address of Building: 800 3rd St

City: Marble Falls, TX 78654 County: Burnet

Contact Name: Erin Burks

Phone No.: (830) 693-3615 Ext.:

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. 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: Appendix B

**Section 9. Regulated Entity and Permitted Site Information (Instructions
Page 33)**

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

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):**

Smithwick Tract Wastewater Treatment Plant

- C. Owner of treatment facility: US Trinity Smithwick, LLC

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

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

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

First and Last Name: James Haltom

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 76226

Phone No.: 940-240-5800

E-mail Address: smithwick@ustrinity.com

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

Attachment:

- E. Owner of effluent disposal site:

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

First and Last Name: James Haltom

Mailing Address: 200 Highland Circle

City, State, Zip Code: Argyle, TX 76226

Phone No.: 940-240-5800

E-mail Address: smithwick@ustrinity.com

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

Attachment:

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

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

First and Last Name:

Mailing Address:

City, State, Zip Code:

Phone No.: E-mail Address:

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

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 34)

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:

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:

City nearest the outfall(s):

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

Outfall Latitude: Longitude:

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:

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.

Section 11. TLAP Disposal Information (Instructions Page 36)

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:

New TLAP: The disposal site is located alongside the Central and Eastern portions of the property. The proposed disposal area encompasses approximately 70.2 acres. The center of the disposal sites is located at 30.542454, -98.146709.

B. City nearest the disposal site: Marble Falls, TX

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

D. Disposal Site Latitude: 30.542454 Longitude: -98.146709

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

The effluent will flow from the treatment facility to an effluent storage pond. The effluent will then be pumped from the pond to the effluent disposal area for spray irrigation within the disposal areas.

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

Post Creek

Section 12. Miscellaneous Information (Instructions Page 37)

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.

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:

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 38)

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: Appendix A - Core Data Form; Appendix B - Public Involvement Plan Form; Appendix C - USGS Maps; Appendix D - Affected Landowners Map; Appendix E - Original Photographs; Appendix F - Buffer Zone Map; Appendix G -Process Flow Diagrams; Appendix H - Site Drawing; Appendix I - Sludge Disposal Site Letter; Appendix J - Design Calculations; Appendix K - FEMA Flood Maps and wind Rose; Appendix L - Sewage Solids Management Plan; Appendix M - Pond Liner Certification; Appendix N - Annual cropping Plan, Appendix O - USGS Well Map and well information, Appendix P- USDA Soil Survey Map and Soil Analyses, Appendix Q- Engineering Report with Water Balance and Storage Volume calculations, Appendix S - Regionalization

Section 14. Signature Page (Instructions Page 39)

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

Permit Number:

Applicant: US Trinity Smithwick, LLC

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): James Haltom

Signatory title: Owner

Signature: _____

(Use blue ink)

Date: _____

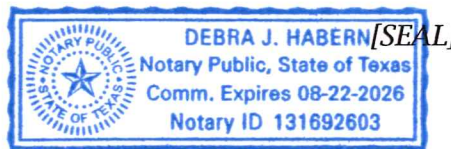
5/28/2024

Subscribed and Sworn to before me by the said James Haltom

on this 28th day of May, 2024.

My commission expires on the 8th day of August, 2026.

Debra J. Habern
Notary Public



Denton
County, Texas

Section 15. Plain Language Summary (Instructions Page 40)

If you are subject to the alternative language notice requirements in [30 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

US Trinity Smithwick, LLC (CN606185817) proposes to operate US Trinity Wastewater Treatment Plant (RN111999264), a 0.18 MGD WWTP facility. The facility will be located Approximately 0.25 miles Southeast from the intersection of County Road 344 and Farm to Market 1431 Business, in Smithwick, TX, Burnet County, Texas 78654.

This is for a new application to discharge processed wastewater at an average daily flow of 180,000 gallons per day on an intermittent and flow-variable basis.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia Coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Domestic wastewater will be treated by a suspended growth activated sludge process in extended aeration mode and the treatment units will include a mechanical auger screen, equalization basin, aeration tanks, membrane bioreactor trains, a chlorine contact chamber and a dechlorination chamber. Discharge will be pumped into an effluent pond. Discharge from the facility is not anticipated to cause any adverse impacts to any receiving waters downstream or adjacent property owners. Phases 1, 2, 3 will each treat 60,000gpd each. The WWTP will treat 180,000gpd at full build-out. The influent will enter the plant via a lift station into a primary clarifier. The treatment units include an influent screening system, aeration basin, clarifier, chlorine contact basin and an aerobic digester. Wastewater will be pumped by an influent lift station into the plant where it will enter through a screen. The influent will then pass through the aeration zone and flow into a clarifier. From the clarifier, the effluent will flow to a chlorine contact basin for disinfection prior to tertiary filtration. From there the effluent will then be routed via pipe to an effluent storage pond, then routed to the effluent disposal area for spray disposal within the disposal site boundaries. This facility will also utilize a digester for sludge holding and reduction of solids prior to haul off.

PLANTILLA EN INGLÉS PARA SOLICITUDES DE NUEVA/RENOVACIÓN/ENMIENDA TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS

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

US Trinity Smithwick, LLC (CN606185817) propone operar la Planta de Tratamiento de Aguas Residuales Trinity de EE.UU. RN111999264. una instalación PTAR de 0.18 MGD. La instalación estará ubicada aproximadamente a 0,25 millas al sureste de la intersección de County Road 344 y Farm to Market 1431 Business, en Smithwick, TX, condado de Burnet, Texas 78654.

Esto es para una nueva aplicación para descargar aguas residuales procesadas a un flujo diario promedio de 180,000 galones por día de forma intermitente y de flujo variable.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD₅) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH₃-N) y Escherichia coli. Se incluyen contaminantes potenciales adicionales en el Informe Técnico Nacional 1.0, Sección 7. Las aguas residuales domésticas se tratarán mediante un proceso de lodos activados de crecimiento suspendido en modo de aireación extendida y las unidades de tratamiento incluirán una criba de tornillo mecánico, un estanque de ecualización, tanques de aireación y un biorreactor de membrana. trenes, una cámara de contacto de cloro y una cámara de decloración. La descarga se bombeará a un estanque de efluentes. No se prevé que la descarga de la instalación cause ningún impacto adverso a las aguas receptoras aguas abajo o a los propietarios de propiedades adyacentes. Las fases 1, 2 y 3 tratarán cada una 60.000 gpd. La instalación tratará 180.000 gpd en plena construcción. El afluente ingresará a la planta a través de una estación de bombeo hacia un clarificador primario. Las unidades de tratamiento incluyen un sistema de cribado de afluentes, balsa de aireación, clarificador, balsa de contacto de cloro y un digestor aeróbico. Las aguas residuales se bombearán a la planta donde ingresarán a través de una rejilla. Luego, el afluente pasará por la zona de aireación y fluirá hacia un clarificador. Desde el clarificador, el efluente fluirá a una cubeta de contacto con cloro para su desinfección antes de la filtración terciaria. Desde allí el efluente será conducido a un estanque de almacenamiento de efluentes. Luego, el efluente se eliminará mediante riego por aspersión. Esta instalación también utilizará un digestor para retener lodos y reducir los sólidos antes del transporte.

DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 41)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☒ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☒ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Burnet County Central Appraisal District
- 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):

Section 2. Original Photographs (Instructions Page 44)

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 44)

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

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) <i>(Required for all applications types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)</i>	<input checked="" type="checkbox"/>		Yes
Correct and Current Industrial Wastewater Permit Application Forms <i>(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)</i>	<input checked="" type="checkbox"/>		Yes
Water Quality Permit Payment Submittal Form (Page 19) <i>(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)</i>	<input checked="" type="checkbox"/>		Yes
7.5 Minute USGS Quadrangle Topographic Map Attached <i>(Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)</i>	<input checked="" type="checkbox"/>		Yes
Current/Non-Expired, Executed Lease Agreement or Easement Attached	<input checked="" type="checkbox"/>	N/A	<input type="checkbox"/> Yes
Landowners Map <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes

Things to Know:

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

Landowners Cross Reference List <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Landowners Labels or USB Drive attached <i>(See instructions for landowner requirements)</i>	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/> Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred <i>(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)</i>			<input checked="" type="checkbox"/> Yes

EXHIBIT 2

**DOMESTIC TECHNICAL REPORT 1.0
DOMESTIC TECHNICAL REPORT 1.1
DOMESTIC TECHNICAL REPORT 3.0
DOMESTIC TECHNICAL REPORT 3.1**



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
DOMESTIC WASTEWATER PERMIT APPLICATION

DOMESTIC TECHNICAL REPORT 1.0

**The Following Is Required For All Applications
Renewal, New, And Amendment**

Section 1. Permitted or Proposed Flows (Instructions Page 51)

A. Existing/Interim I Phase

Design Flow (MGD): 0.06

2-Hr Peak Flow (MGD): 0.18

Estimated construction start date: 9/1/25

Estimated waste disposal start date: 9/1/26

B. Interim II Phase

Design Flow (MGD): 0.120

2-Hr Peak Flow (MGD): 0.36

Estimated construction start date: 9/1/27

Estimated waste disposal start date: 9/1/28

C. Final Phase

Design Flow (MGD): 0.180

2-Hr Peak Flow (MGD): 0.54

Estimated construction start date: 9/1/29

Estimated waste disposal start date: 9/1/30

D. Current operating phase: N/A – New Facility

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 51)

A. Treatment process description

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 in the permit, a description of each phase must be provided.** Process description:

The facility is to be constructed in three phases. Phases I, II, III will treat 60,000 gpd each, totaling 180,000 gpd. The treatment units include an influent screening system, aeration basin, clarifier, chlorine contact basin and an aerobic digester. Wastewater will be pumped by an influent lift station into the plant where it will enter through a screen. The influent will then pass through the aeration zone and flow into a clarifier. From the clarifier, the effluent will flow to a chlorine contact basin for disinfection prior to tertiary filtration. From there the effluent will then be routed via pipe to an effluent storage pond, then routed to the effluent disposal area for spray disposal within the disposal site boundaries. This facility will also utilize a digester for sludge holding and reduction of solids prior to haul off.

Port or pipe diameter at the discharge point, in inches: 8" (to pond)

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)
Clarifier	3 (1 per phase)	Phase 1: 18.5' DIA x 10' D Phase 2: 18.5' DIA x 10' D Phase 3: 18.5' DIA x 10' D
Aeration Basin	3 (1 per phase)	Phase 1: 68'L x 40'W x 10'D Phase 2: 68'L x 40'W x 10'D Phase 3: 68'L x 40'W x 10'D
Aerobic Digester	3 (1 per phase)	Phase 1: 40'L x 20'W x 10'D Phase 2: 40'L x 20'W x 10'D Phase 3: 40'L x 20'W x 10'D
Chlorine Contact Chamber	3 (1 per phase)	Phase 1: 9'L x 5'W x 10'D Phase 2: 9'L x 5'W x 10'D Phase 3: 9'L x 5'W x 10'D

C. Process flow diagrams

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

Attachment: Appendix G

Section 3. Site Drawing (Instructions Page 52)

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: Appendix H

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

SMITHWICK TRACT WWTP: A residential development composed of single-family lots and recreational areas on approximately 1400 acres. The property is in Smithwick, TX in Burnet County.

Section 4. Unbuilt Phases (Instructions Page 52)

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.

Section 5. Closure Plans (Instructions Page 53)

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.

Section 6. Permit Specific Requirements (Instructions Page 53)

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:

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.

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.

A 150' buffer zone is proposed around the treatment plant.

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*.

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.

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 512-239-0000. 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.

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 512-239-0000.

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

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 or TXRNE

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:

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.

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.

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.

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, a Sewage Sludge Solids Management Plan is required. See Example 5 in the instructions.

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

1. Acceptance of sludge from other WWTPs

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

Yes ☐ No ☒

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

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

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

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

--

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 the facility accepting or will it 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.

--

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 58)

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).

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, μ mohs/cm, †					

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 60)

Facility Operator Name: Corix Utilities (Texas) Inc.

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

Facility Operator's License Number: OC0000183

Section 9. Sewage Sludge Management and Disposal (Instructions Page 60)

A. Sludge disposal method

Identify the current or anticipated sludge disposal method or methods from the following list. Check all that apply.

- ☐ Permitted landfill
- ☐ Permitted or Registered land application site for beneficial use

- ☐ Land application for beneficial use authorized in the wastewater permit
- ☐ Permitted sludge processing facility
- ☐ Marketing and distribution as authorized in the wastewater permit
- ☐ Composting as authorized in the wastewater permit
- ☐ Permitted surface disposal site (sludge monofill)
- ☐ Surface disposal site (sludge monofill) authorized in the wastewater permit
- ☒ Transported to another permitted wastewater treatment plant or permitted sludge processing facility. If you selected this method, a written statement or contractual agreement from the wastewater treatment plant or permitted sludge processing facility accepting the sludge must be included with this application.
- ☐ Other:

B. Sludge disposal site

Disposal site name:

TCEQ permit or registration number:

County where disposal site is located:

C. Sludge transportation method

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

Name of the hauler: WWTS-Wastewater Transport Services

Hauler registration number:

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

Yes ☐ No ☒

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

Yes ☐ No ☐

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

Yes ☐ No ☐

B. Sludge processing authorization

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

Sludge Composting Yes ☐ No ☒

Marketing and Distribution of sludge Yes ☐ No ☒

Sludge Surface Disposal or Sludge Monofill Yes ☐ No ☒

Temporary storage in sludge lagoons Yes ☐ No ☒

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

Yes ☐ No ☐

Section 11. Sewage Sludge Lagoons (Instructions Page 61)

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:

- USDA Natural Resources Conservation Service Soil Map:

Attachment:

- Federal Emergency Management Map:

Attachment:

- Site map:

Attachment:

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:

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:

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:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

C. Liner information

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

Yes ☐ No ☐

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

D. Site development plan

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

Attach the following documents to the application.

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

Attachment: [\[Click here to enter text\]](#)

- Copy of the closure plan

Attachment: [\[Click here to enter text\]](#)

- Copy of deed recordation for the site

Attachment: [\[Click here to enter text\]](#)

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

Attachment: [\[Click here to enter text\]](#)

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

Attachment: [\[Click here to enter text\]](#)

- Procedures to prevent the occurrence of nuisance conditions

Attachment: [\[Click here to enter text\]](#)

E. Groundwater monitoring

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

Yes ☐ No ☐

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

Attachment: [\[Click here to enter text\]](#)

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 63)

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:

[Click here to enter text]
--

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:

Section 13. RCRA/CERCLA Wastes (Instructions Page 63)

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:

Section 14. Laboratory Accreditation (Instructions Page 64)

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:

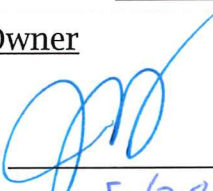
I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: James Haltom

Title: Owner

Signature: _____

Date: _____


5/28/24

DOMESTIC TECHNICAL REPORT 1.1

The following is required for new and amendment applications

Section 1. Justification for Permit (Instructions Page 66)

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.

The wastewater treatment plant will serve the proposed residential development. Based on easement and right-of-way limitations, no route exists from this site to an organized wastewater treatment facility. The use of a central collection treatment and disposal system is being preferred to an equivalent number of private residential septic tank/drain field units. Design flows are based on Living Unit Equivalents (LUEs) or connections associated with the service area. A basis of 245 gallons of wastewater per day per connection (maximum 30-day wet weather average) was assumed for flow projections. The total flow needed at full build would be 734 equivalent connections x 245 gal/day/connection = 179,830 gal/day assumed.

B. Regionalization of facilities

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:

If yes, attach correspondence from the city.

Attachment:

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:

2. Utility CCN areas

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

Yes ☐ No ☒

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:

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 that includes the permittee's name and permit number, and an area map showing the location of these facilities.

Attachment:

If yes, attach copies of your certified letters to these facilities **and** their response letters concerning connection with their system.

Attachment:

Does a permitted domestic wastewater treatment facility or a collection system located within three (3) miles of the proposed facility currently have the capacity to accept or is willing to expand to accept the volume of wastewater proposed in this application?

Yes ☐ No ☐

If yes, attach an analysis of expenditures required to connect to a permitted wastewater treatment facility or collection system located within 3 miles versus the cost of the proposed facility or expansion.

Attachment:

Section 2. Organic Loading (Instructions Page 67)

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): [REDACTED]

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [REDACTED]

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [REDACTED]

Provide the source of the average organic strength or BOD₅ concentration.

[REDACTED]

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 BOD ₅ Concentration (mg/l)
Municipality		
Subdivision	0.180	400
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		

Source	Total Average Flow (MGD)	Influent BOD ₅ Concentration (mg/l)
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.180	400
AVERAGE BOD ₅ from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 68)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 5.0

Total Suspended Solids, mg/l: 5.0

Ammonia Nitrogen, mg/l: 2.0

Total Phosphorus, mg/l: 1.0

Dissolved Oxygen, mg/l: 5.0

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

- ☒ Chlorine: 1 mg/l after 20 minutes detention time at peak flow
Dechlorination process: Chlorine Contact Basin
- ☐ Ultraviolet Light: seconds contact time at peak flow
- ☐ Other:

Section 4. Design Calculations (Instructions Page 68)

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

Attachment: Appendix J

Section 5. Facility Site (Instructions Page 68)

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.

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

FEMA MAP: 48053C0620G (APPENDIX K)

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:

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

B. Wind rose

Attach a wind rose. **Attachment:** Appendix K

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 69)

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)

Attachment:

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 a completed DOMESTIC WASTEWATER PERMIT APPLICATION: SEWAGE SLUDGE TECHNICAL REPORT (TCEQ Form No. 10056).

Attachment:

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 69)

Attach a solids management plan to the application.

Attachment: Appendix L

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 WORKSHEET 3.0

LAND DISPOSAL OF EFFLUENT

The following is required for all permit applications
Renewal, New, and Amendments

Section 1. Type of Disposal System (Instructions Page 77)

Identify the method of land disposal:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Surface application | <input type="checkbox"/> Subsurface application |
| <input type="checkbox"/> Irrigation | <input type="checkbox"/> Subsurface soils absorption |
| <input type="checkbox"/> Drip irrigation system | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation | |
| <input type="checkbox"/> Evapotranspiration beds | |
| <input type="checkbox"/> Other (describe in detail): | |

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

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 77)

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
Turf Grass, Golf course	70.2	180,000	Y

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 77)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	2.6	73.55	452 ft x 374 ft	Synthetic

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

Attachment: Attachment M

Section 4. Flood and Runoff Protection (Instructions Page 77)

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.

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

FEMA Map 48053C0620G

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

Karst/Critical environmental features will be excluded from the irrigation areas by buffering based on TCEQ criteria. In addition, earthen berms will be provided to divert flows from the buffers. No irrigation across drainage ways or concentrated flow areas is proposed.

Section 5. Annual Cropping Plan (Instructions Page 77)

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: APPENDIX N

- 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 78)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation (on a separate page) indicating why.

Attachment: APPENDIX O

- 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 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 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
SEE ATTACHED	--	---	Choose an item.	----
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: APPENDIX O

Section 7. Groundwater Quality (Instructions Page 79)

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: APPENDIX P

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

Attachment:

Section 8. Soil Map and Soil Analyses (Instructions Page 79)

A. Soil map

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

Attachment: APPENDIX P

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: N/A, importing soil

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
Purves Clay (PRC)	0-16"	1.98 mm/s	0.14	D
Luckenbach clay Loam (LCL)	0-80"	4.03 mm/s	0.16	C
Heaton Loamy Fine Sand (HLFS)	0-80"	31.76 mm/s	0.12	B
Lewisville clay Loam (LVCL)	0-80"	2.7 mm/s	0.16	C

Section 9. Effluent Monitoring Data (Instructions Page 80)

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	BOD ₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Date	30 Day Avg Flow MGD	BOD₅ mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

DOMESTIC WORKSHEET 3.1

SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment applications.

Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 81)

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

A. Irrigation

Area under irrigation, in acres: 70.2

Design application frequency:

hours/day 12 And days/week 7

Land grade (slope):

average percent (%): 5.0

maximum percent (%): 12.0

Design application rate in acre-feet/acre/year: 3.0

Design total nitrogen loading rate, in lbs N/acre/year: 65

Soil conductivity (mmhos/cm): 0.55

Method of application: Spray Irrigation

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

Attachment: Appendix Q

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: 180,000

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

Attachment: Appendix Q

C. Evapotranspiration beds

Number of beds: N/A

Area of bed(s), in acres:

Depth of bed(s), in feet:

Void ratio of soil in the beds:

Storage volume within the beds, in acre-feet:

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

Attachment:

D. Overland flow

Area used for application, in acres: N/A

Slopes for application area, percent (%):

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

Slope length, in feet:

Design BOD₅ loading rate, in lbs BOD₅/acre/day:

Design application frequency:

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

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

Attachment:

Section 2. Edwards Aquifer (Instructions Page 82)

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

Yes ☐ No ☒

If yes, attach a report concerning the recharge zone.

Attachment:

APPENDIX A
CORE DATA FORM



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.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> 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)
CN606185817		RN111999264

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
US TRINITY SMITHWICK, LLC					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
0804344331		32082224026			
11. Type of Customer:		<input checked="" type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input checked="" type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:		200 Highland Circle			
City		Argyle		State	TX
ZIP		76226		ZIP + 4	
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
				smithwick@ustrinity.com	
18. Telephone Number			19. Extension or Code		20. Fax Number (if applicable)

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Smithwick Tract Wastewater Treatment Plant								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City	Marble Falls	State	TX	ZIP	78654	ZIP + 4	
24. County		Burnet						

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

25. Description to Physical Location:		New TLAP: The facility is located 0.25 miles Southeast of the intersection of Country Road 344 and Old RN 1431 in Burnet County, TX.							
26. Nearest City					State		Nearest ZIP Code		
Marble Falls					TX		78654		
<i>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).</i>									
27. Latitude (N) In Decimal:			30.553725			28. Longitude (W) In Decimal:			
Degrees			Minutes		Seconds		Degrees		
30			33		13.4		98		
							09		
							10.3		
29. Primary SIC Code		30. Secondary SIC Code		31. Primary NAICS Code		32. Secondary NAICS Code			
(4 digits)		(4 digits)		(5 or 6 digits)		(5 or 6 digits)			
4952				221320					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
Wastewater Treatment									
34. Mailing Address:		200 Highland Circle							
	City	Argyle	State	TX	ZIP	76226	ZIP + 4		
35. E-Mail Address:		smithwick@ustrinity.com							
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)			
(940) 240-5800						() -			

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.

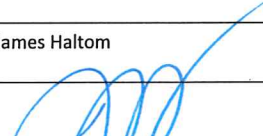
<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input checked="" type="checkbox"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Lauren Crone, P.E.	41. Title:	Senior Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 439-4700		() -	lcrone@lja.com

SECTION V: Authorized Signature

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

Company:	US Trinity Smithwick, LLD	Job Title:	Owner
Name (In Print):	James Haltom	Phone:	(940) 240- 5800
Signature:		Date:	5/28/24

APPENDIX B:
PUBLIC INVOLVEMENT PLAN FORM



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

New Permit or Registration Application

New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

Requires public notice,

Considered to have significant public interest, and

Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

Air Initial Federal Amendment Standard Permit Title V
Waste Municipal Solid Waste Industrial and Hazardous Waste Scrap Tire
Radioactive Material Licensing Underground Injection Control

Water Quality

Texas Pollutant Discharge Elimination System (TPDES)
Texas Land Application Permit (TLAP)
State Only Concentrated Animal Feeding Operation (CAFO)
Water Treatment Plant Residuals Disposal Permit
Class B Biosolids Land Application Permit
Domestic Septage Land Application Registration

Water Rights New Permit

New Appropriation of Water
New or existing reservoir

Amendment to an Existing Water Right

Add a New Appropriation of Water
Add a New or Existing Reservoir
Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

(City)

(County)

(Census Tract)

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

City

County

Census Tract

- (a) Percent of people over 25 years of age who at least graduated from high school
- (b) Per capita income for population near the specified location
- (c) Percent of minority population and percent of population by race within the specified location
- (d) Percent of Linguistically Isolated Households by language within the specified location
- (e) Languages commonly spoken in area by percentage
- (f) Community and/or Stakeholder Groups
- (g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

Yes No

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

Yes No

If Yes, please describe.

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

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

Yes No

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

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

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

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

Yes No

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

Yes No

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

TCEQ Regional Office

TCEQ Central Office

Public Place (specify)

Section 7. Voluntary Submittal

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

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

Yes No

What types of notice will be provided?

Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

APPENDIX C

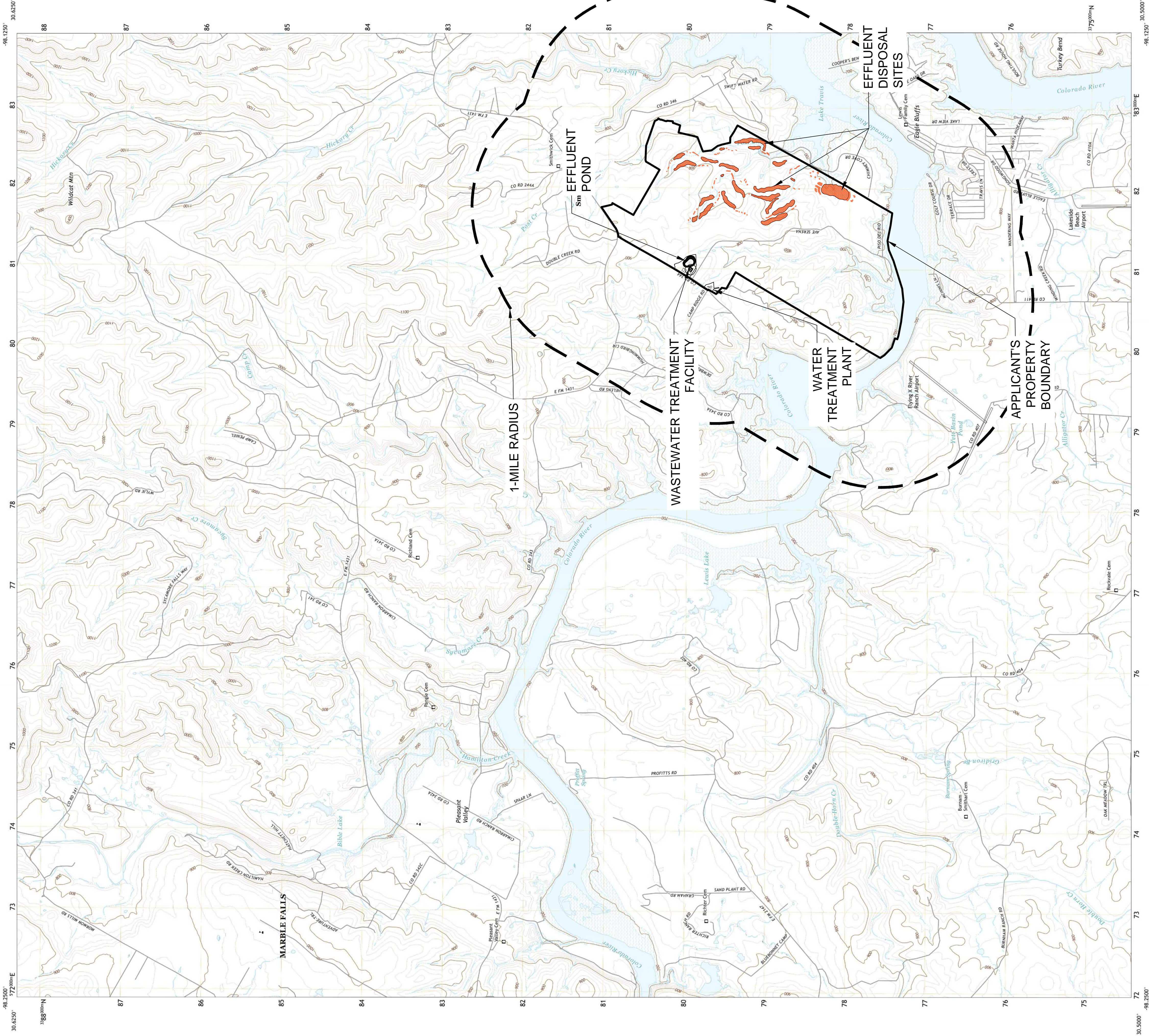
USGS MAPS



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



SMITHWICK QUADRANGLE
TEXAS - BURNET COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
This map is not a legal document. Boundaries may be
1:000-meter grid lines. Boundaries may be
entering private lands.
Roads: U.S. Census Bureau, 2015
Names: U.S. Census Bureau, 2015
Boundaries: National Hydrography Dataset, 2011
Wetlands: National Wetlands Inventory, Net Available

UTM 18Q UTM AND 2014 MONITORING POINT
REGISTRATION AT CENTER OF AREA
U.S. National Grid
100,000 Meters
Grid Zone Designation
18Q

SCALE 1:24,000
1 0.5 1 2
1000 500 0 500 1000 2000
1 0.5 1 2
1000 500 0 500 1000 2000
1 0.5 1 2
1000 500 0 500 1000 2000

QUADRANGLE LOCATION
1 Longhorn Cavern
2 Burnet County
3 Burnet
4 Marble Falls
5 Burnet Falls
6 Burnet Mountain
7 Burnet
8 Burnet Bend

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
AWD
US Route
State Route

SMITHWICK, TX
2022



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



TRAVIS PEAK QUADRANGLE
TEXAS
7.5-MINUTE SERIES

TRAVIS PEAK, TX
2022

LJA Engineering, Inc.
7500 Rialto Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

SMITHWICK TRACT WWTP
BURNET COUNTY, TX

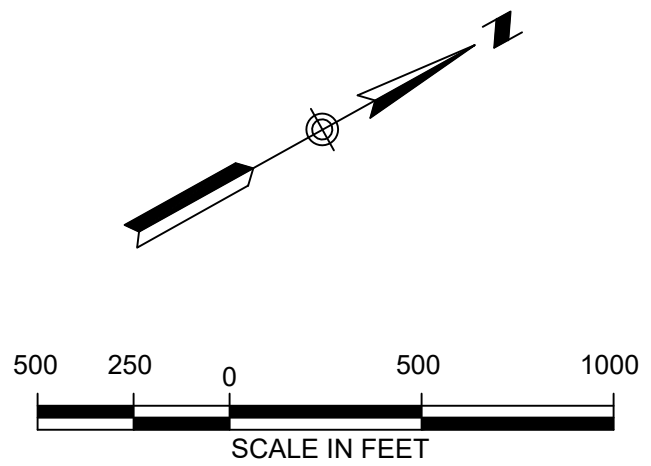
USGS MAP
TRAVIS PEAK, TX

APPENDIX D
AFFECTED LANDOWNERS MAP AND LIST

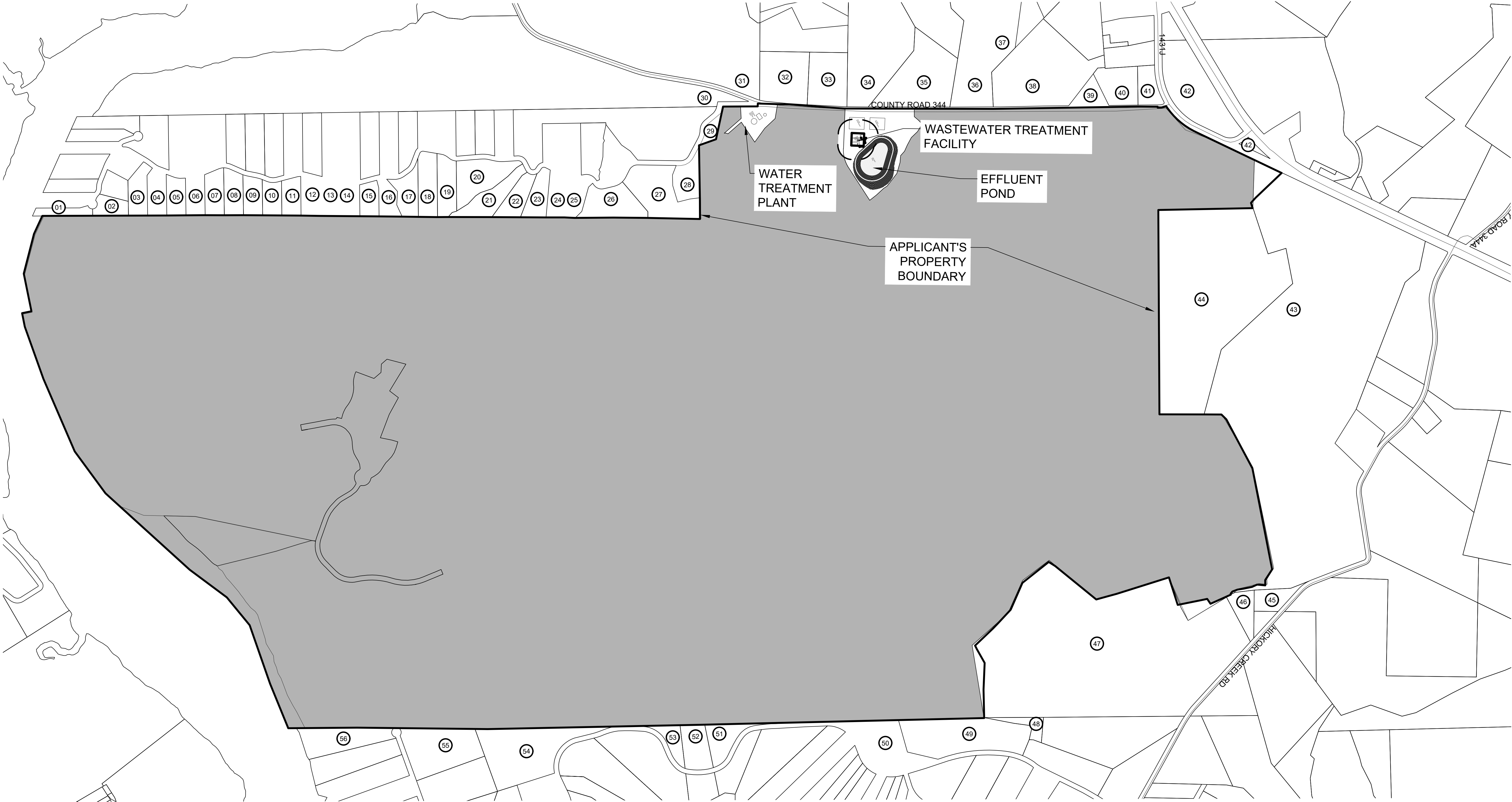
NO.	I.D.	NAME	ADDRESS
01	NA	NA	NA
02	45066	HOLLOWAY DORIS J IRRECOVABLE TRUST	351 PASEO DEL RIO, MARBLE FALLS, TX 78654
03	45063	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES	1751 AVENIDA SERENA, MARBLE FALLS, TX 78654
04	45062	FERRI ROBERT & KATHLEEN	1701 AVENIDA SERENA, MARBLE FALLS, TX 78654
05	45061	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO	1651 AVENIDA SERENA, MARBLE FALLS, TX 78654
06	45060	DAVIS JAMES A	1601 AVENIDA SERENA, MARBLE FALLS, TX 78654
07	45059	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
08	45058	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA, MARBLE FALLS, TX 78654
09	45057	MCCABE CAMERON M & KATHRYN B	1451 AVENIDA SERENA, MARBLE FALLS, TX 78654
10	45056	WATTS FAMILY TRUST	4241 VERMONT ST, LONG BEACH, CA 90814
11	45055	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
12	45054	MITCHELL PHILLIP L & DIANE	1301 AVENIDA SERENA, MARBLE FALLS, TX 78654
13	45053	OTIS PAUL L ETUX FRANKIE V	1251 AVENIDA SERENA, MARBLE FALLS, TX 78654
14	45052	SUNDHARAJAN SRINIVASAN	4708 CAP ROCK DRIVE APT# 3208, AUSTIN, TX 78735
15	45051	WILLIAMS JARRETT D & WINDY W	1151 AVENIDA SERENA, MARBLE FALLS, TX 78654
16	45050	HANNA MALI COUGHLIN	1101 AVENIDA SERENA, MARBLE FALLS, TX 78654
17	45049	BARRINEAU CLARK GARRETT & JENA MARIE	1051 AVENIDA SERENA, MARBLE FALLS, TX 78654
18	45048	DOYE ROBERT & BOBBIE 2005 LIVING TRUST	1001 AVENIDA SERENA, MARBLE FALLS, TX 78654
19	45047	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
20	45046	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD, SHELBYVILLE, KY 40065
21	45044	NA	NA
22	45043	RISHAVY JENNIFER & DANIEL P	PO BOX 296 MARBLE FALLS, TX 78654
23	45042	ERLING LARRY ETUX EDNA	751 AVENIDA SERENA, MARBLE FALLS, TX 78654
24	45041	PHILLIPS MICHAEL E & CECILIA	701 AVENIDA SERENA, MARBLE FALLS, TX 78654
25	45040	COLLIER DEAN & ARACELI MALDONADO	651 AVENIDA SERENA, MARBLE FALLS, TX 78654
26	45038	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES	236 GRAYHAWK, SPRING RANCH, TX 78070
27	NA	NA	NA
28	45037	BRUNK WILLIAM N & JANA ADAMS	351 AVENIDA SERENA, MARBLE FALLS, TX 78654

NO.	I.D.	NAME	ADDRESS
29	NA	NA	NA
30	55449	JOSEPH LAND & CATTLE CO LTD	2904 RICHARD LN, AUSTIN, TX 78703
31	55448	IMPACT CHRISTIAN YOUTH CAMP INC	1552 CR 344, MARBLE FALLS, TX 78654
32	55440	HANK & JANET LEWIS REAL ESTATE HOLDINGS LLC	PO BOX 217, MARBLE FALLS, TX 78654
33	69147	BRYANT ELSA BARDELOZA MANAGEMENT TRUST	506 CR 344, MARBLE FALLS, TX 78654
34	55442	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
35	55443	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344, MARBLE FALLS, TX 78654
36	106393	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
37	83445	BAKER KENNETH L & SHIRLEY K	PO BOX 514, CROSS PLAINS, TX 76443
38	55451	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
39	55452	HISEY TONNA	110 CR 344, MARBLE FALLS, TX 78654
40	55461	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
41	55456	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
42	72305	NA	NA
43	72306	RENFRO MANAGEMENT TRUST	PO BOX 5529, LAGO VISTA, TX 78645
44	50306	HUDDLESTON J B & SUE C LIVING TRUST	10711 E FM 1431, MARBLE FALLS, TX 78654
45	53142	FRANKI BO & BONNIE	13711 E FM 1431, MARBLE FALLS, TX 78654
46	NA	NA	NA
47	56440	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR, RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE, WACO, TX 76712
52	9667	GALFAND WENDRA J	2750 GLIDER ST APT 203, FORT BRAGG, NC 28307
53	9665	PETERSON STEVEN GLENN & VIRNA ALEJANDRA VILLAGOMEZ	12291 CHIANTI DR, ROSSMOOR, CA 90720
54	9697	GRIFFITH JEFFREY & JULISSA	394 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
55	9702	PARKER JERRY L & SYLVIA I	570 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR, MARBLE FALLS, TX 78654

NO.	I.D.	NAME	ADDRESS
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36	106393	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
37	83445	BAKER KENNETH L & SHIRLEY K	PO BOX 514, CROSS PLAINS, TX 76443
38	55451	LEVINE MATTHEW A	300 CR 344, MARBLE FALLS, TX 78654
39	55452	HISEY TONNA	110 CR 344, MARBLE FALLS, TX 78654
40	55461	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
41	55456	DAY PATRICIA R	100 CR 344, MARBLE FALLS, TX 78654
42	72305	NA	NA
43	72306	RENFRO MANAGEMENT TRUST	PO BOX 5529, LAGO VISTA, TX 78645
44	50306	HUDDLESTON J B & SUE C LIVING TRUST	10711 E FM 1431, MARBLE FALLS, TX 78654
45	53142	FRANKI BO & BONNIE	13711 E FM 1431, MARBLE FALLS, TX 78654
46	NA	NA	NA
47	56440	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670, HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR, RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR, MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE, WACO, TX 76712
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56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR, MARBLE FALLS, TX 78654



43 ADJACENT PROPERTY OWNER



AFFECTED LANDOWNERS MAP

SMITHWICK TRACT WWTP
BURNET COUNTY, TX

LJA
Engineering, Inc.
7500 Riato Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

Map Number	Property ID Number	Landowner Name	Landowner Address (1)	Landowner Address (2)
1	N/A	N/A		
2	45066	HOLLOWAY DORIS J IRRECOVABLE TRUST	351 PASEO DEL RIO	MARBLE FALLS, TX 78654
3	45063	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES	1751 AVENIDA SERENA	MARBLE FALLS, TX 78654
4	45062	FERRI ROBERT & KATHLEEN	1701 AVENIDA SERENA	MARBLE FALLS, TX 78654
5	45061	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO	1651 AVENIDA SERENA	MARBLE FALLS, TX 78654
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7	45059	SPROUL ROB & KRISTINE	1501 AVENIDA SERENA	MARBLE FALLS, TX 78654
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18	45048	DOYE ROBERT & BOBBIE 2005 LIVING TRUST	1001 AVENIDA SERENA	MARBLE FALLS, TX 78654
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20	45046	TAYLOR SUSAN DOYLE	1955 ANTIOCH RD	SHELBYVILLE, KY 40065
21	45044	N/A		
22	45043	RISHAVY JENNIFER & DANIEL P	PO BOX 296	MARBLE FALLS, TX 78654
23	45042	ERLING LARRY ETUX EDNA	751 AVENIDA SERENA	MARBLE FALLS, TX 78654
24	45041	PHILLIPS MICHAEL E & CECILIA	701 AVENIDA SERENA	MARBLE FALLS, TX 78654
25	45040	COLLIER DEAN & ARACELI MALDONADO	651 AVENIDA SERENA	MARBLE FALLS, TX 78654
26	45038	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES	236 GRAYHAWK	SPRING RANCH, TX 78070
27	N/A	N/A		
28	45037	BRUNK WILLIAM N & JANA ADAMS	351 AVENIDA SERENA	MARBLE FALLS, TX 78654
29	NA	N/A		
30	55449	JOSEPH LAND & CATTLE CO LTD	2904 RICHARD LN	AUSTIN, TX 78703
31	55448	IMPACT CHRISTIAN YOUTH CAMP INC	1552 CR 344	MARBLE FALLS, TX 78654
32	55440	HANK & JANET LEWIS REAL ESTATE HOLDINGS LLC	PO BOX 217	MARBLE FALLS, TX 78654
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34	55442	SCHARFSTEIN JOEL & DEBORAH PRUTZMAN	310 CR 344	MARBLE FALLS, TX 78654
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36	106393	LEVINE MATTHEW A	300 CR 344	MARBLE FALLS, TX 78654
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39	55452	HISEY TONNAHISEY TONNA	110 CR 344	MARBLE FALLS, TX 78654
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46	N/A	N/A		
47	56440	PRUETT LEE T	PO BOX 4670	HORSESHOEBAY, TX 78657
48	57159	PRUETT LEE T	PO BOX 4670	HORSESHOEBAY, TX 78657
49	9695	ROY RUSSELL & GAIL M	4011 BRYNMAWR DR	RICHMOND, TX 77406
50	9696	MARTIN ANNETTE & TIMOTHY MARTIN	260 CHIMNEY COVE DR	MARBLE FALLS, TX 78654
51	9669	DUDLEY JOHN GRANT & TERESA LYNN	109 PAINTED HORSE	WACO, TX 76712
52	9667	GALFAND WENDRA J	2750 GLIDER ST APT 203	FORT BRAGG, NC 28307
53	9665	PETERSON STEVEN GLENN & VIRNA ALEJANDRA VILLAGOMEZ	12291 CHIANTI DR	ROSSMOOR, CA 90720
54	9697	GRIFFITH JEFFREY & JULISSA	394 CHIMNEY COVE DR	MARBLE FALLS, TX 78654
55	9702	PARKER JERRY L & SYLVIA I	570 CHIMNEY COVE DR	MARBLE FALLS, TX 78654
56	9640	MASUDA TERENCE D & AMY S	585 CHIMNEY COVE DR	MARBLE FALLS, TX 78654

N/A	HOLLOWAY DORIS J IRRECOVABLE TRUST 351 PASEO DEL RIO MARBLE FALLS, TX 78654	SCHNIER WILLIAM R JR & MAUREEN T SCHNIER TRUSTEES 1751 AVENIDA SERENA MARBLE FALLS, TX 78654
FERRI ROBERT & KATHLEEN 1701 AVENIDA SERENA MARBLE FALLS, TX 78654	CASCIO VALERIE ANNE & MARK ANTHONY CASCIO 1651 AVENIDA SERENA MARBLE FALLS, TX 78654	DAVIS JAMES A 1601 AVENIDA SERENA MARBLE FALLS, TX 78654
SPROUL ROB & KRISTINE 1501 AVENIDA SERENA MARBLE FALLS, TX 78654	SPROUL ROB & KRISTINE 1501 AVENIDA SERENA MARBLE FALLS, TX 78654	MCCABE CAMERON M & KATHRYN B 1451 AVENIDA SERENA MARBLE FALLS, TX 78654
WATTS FAMILY TRUST 4241 VERMONT ST LONG BEACH, CA 90814	MITCHELL PHILLIP L & DIANE 1301 AVENIDA SERENA MARBLE FALLS, TX 78654	MITCHELL PHILLIP L & DIANE 1301 AVENIDA SERENA MARBLE FALLS, TX 78654
OTIS PAUL L ETUX FRANKIE V 1251 AVENIDA SERENA MARBLE FALLS, TX 78654	SUNDHARARAJAN SRINIVASAN 4708 CAP ROCK DRIVE APT# 3208 AUSTIN, TX 78735	WILLIAMS JARRETT D & WINDY W 1151 AVENIDA SERENA MARBLE FALLS, TX 78654
HANNA MALI COUGHLIN 1101 AVENIDA SERENA MARBLE FALLS, TX 78654	BARRINEAU CLARK GARRETT & JENA MARIE 1051 AVENIDA SERENA MARBLE FALLS, TX 78654	DOYE ROBERT & BOBBIE 2005 LIVING TRUST 1001 AVENIDA SERENA MARBLE FALLS, TX 78654
TAYLOR SUSAN DOYLE 1955 ANTIOCH RD SHELBYVILLE, KY 40065	TAYLOR SUSAN DOYLE 1955 ANTIOCH RD SHELBYVILLE, KY 40065	N/A
RISHAVY JENNIFER & DANIEL P PO BOX 296 MARBLE FALLS, TX 78654	ERLING LARRY ETUX EDNA 751 AVENIDA SERENA MARBLE FALLS, TX 78654	PHILLIPS MICHAEL E & CECILIA 701 AVENIDA SERENA MARBLE FALLS, TX 78654
COLLIER DEAN & ARACELI MALDONADO 651 AVENIDA SERENA MARBLE FALLS, TX 78654	EPPLER WILLIAM H & MARGARET M EPPLER TRUSTEES 236 GRAYHAWK SPRING RANCH, TX 78070	N/A
BRUNK WILLIAM N & JANA ADAMS 351 AVENIDA SERENA MARBLE FALLS, TX 78654	N/A	JOSEPH LAND & CATTLE CO LTD 2904 RICHARD LN AUSTIN, TX 78703

IMPACT CHRISTIAN YOUTH CAMP INC
1552 CR 344
MARBLE FALLS, TX 78654

HANK & JANET LEWIS REAL ESTATE
HOLDINGS LLC
PO BOX 217
MARBLE FALLS, TX 78654

BRYANT ELSA BARDELOZA
MANAGEMENT TRUST
506 CR 344
MARBLE FALLS, TX 78654

SCHARFSTEIN JOEL & DEBORAH
PRUTZMAN
310 CR 344
MARBLE FALLS, TX 78654

SCHARFSTEIN JOEL & DEBORAH
PRUTZMAN
310 CR 344
MARBLE FALLS, TX 78654

LEVINE MATTHEW A
300 CR 344
MARBLE FALLS, TX 78654

BAKER KENNETH L & SHIRLEY K
PO BOX 514
CROSS PLAINS, TX 76443

LEVINE MATTHEW A
300 CR 344
MARBLE FALLS, TX 78654

HISEY TONNAHISEY TONNA
110 CR 344
MARBLE FALLS, TX 78654

DAY PATRICIA R
100 CR 344
MARBLE FALLS, TX 78654

DAY PATRICIA R
100 CR 344
MARBLE FALLS, TX 78654

N/A

RENFRO MANAGEMENT TRUST
PO BOX 5529
LAGO VISTA, TX 78645

HUDDLESTON J B & SUE C LIVING TRUST
10711 E FM 1431
MARBLE FALLS, TX 78654

FRANKI BO & BONNIE
13711 E FM 1431
MARBLE FALLS, TX 78654

N/A

PRUETT LEE T
PO BOX 4670
HORSESHOEBAY, TX 78657

PRUETT LEE T
PO BOX 4670
HORSESHOEBAY, TX 78657

ROY RUSSELL & GAIL M
4011 BRYNMAWR DR
RICHMOND, TX 77406

MARTIN ANNETTE & TIMOTHY MARTIN
260 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

DUDLEY JOHN GRANT & TERESA LYNN
109 PAINTED HORSE
WACO, TX 76712

GALFAND WENDRA J
2750 GLIDER ST APT 203
FORT BRAGG, NC 28307

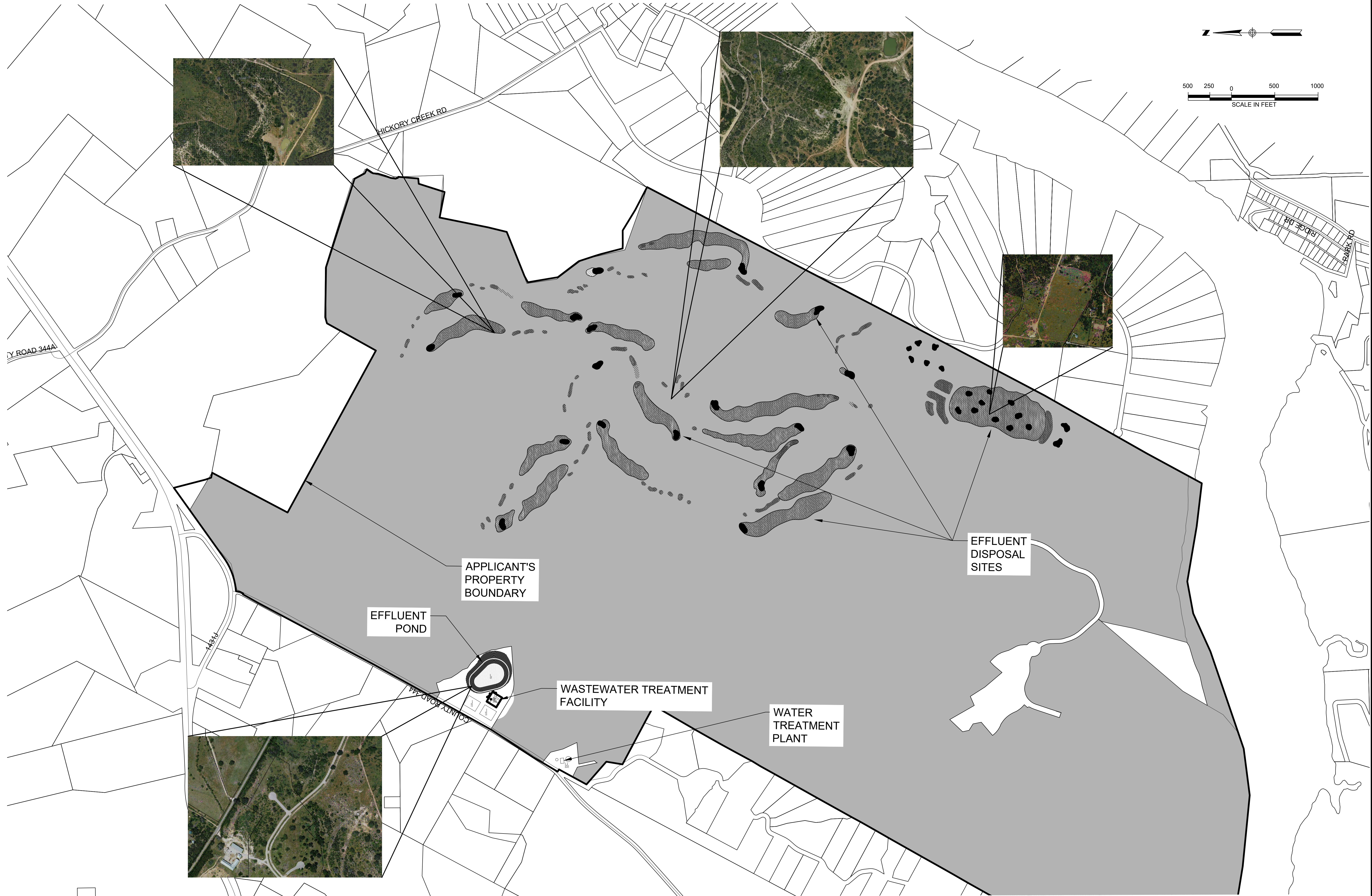
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ALEJANDRA VILLAGOMEZ
12291 CHIANTI DR
ROSSMOOR, CA 90720

GRIFFITH JEFFREY & JULISSA
394 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

PARKER JERRY L & SYLVIA I
570 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

MASUDA TERENCE D & AMY S
585 CHIMNEY COVE DR
MARBLE FALLS, TX 78654

APPENDIX E
ORIGINAL PHOTOGRAPHS



SMITHWICK TRACT WWTP

BURNET COUNTY, TX

LJA Engineering, Inc.
7500 Riata Boulevard
Building II, Suite 100
Austin, Texas 78735
Phone 512.439.4700
Fax 512.439.4716
FRN - F-1386

APPENDIX F
BUFFER ZONE MAP

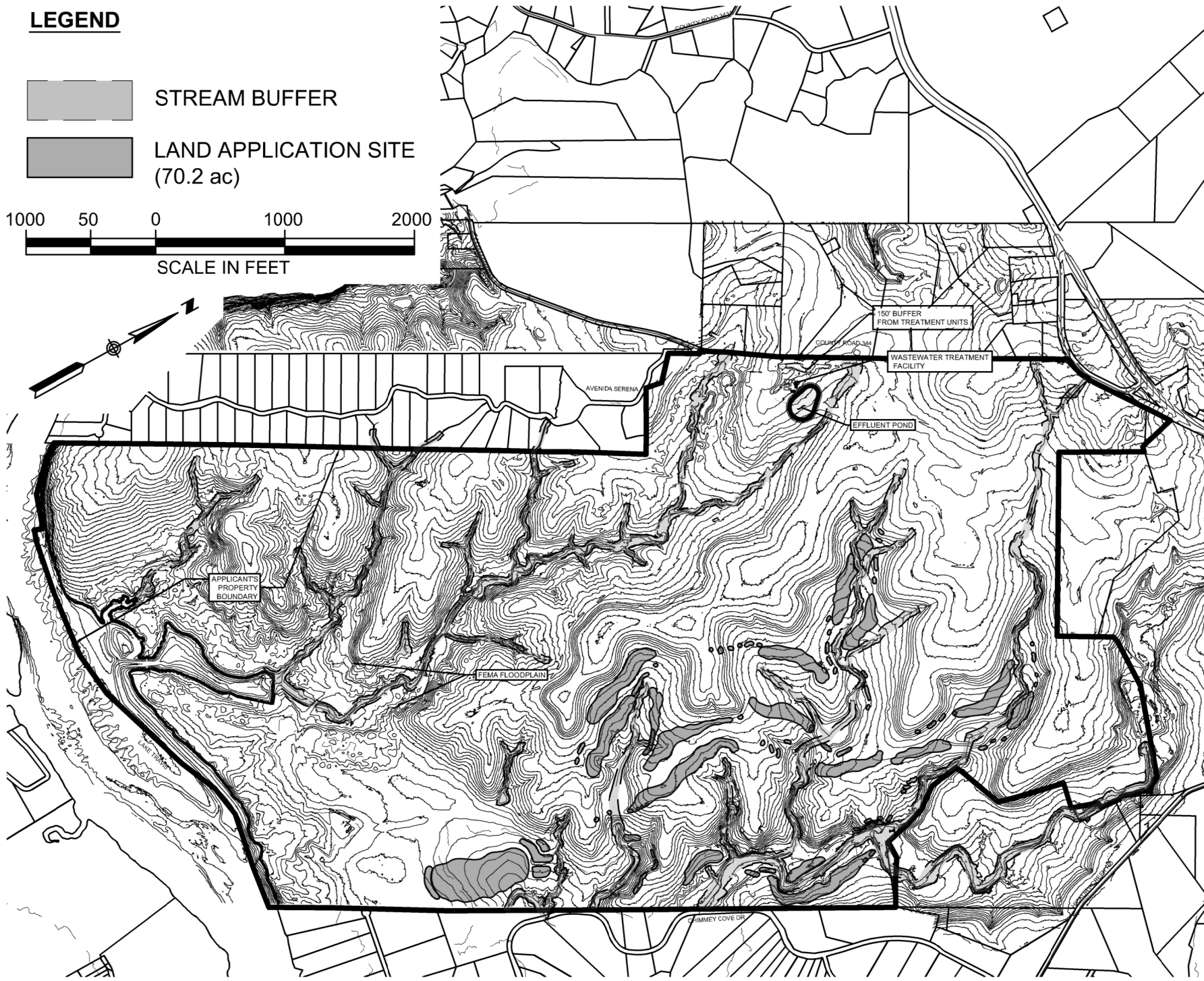
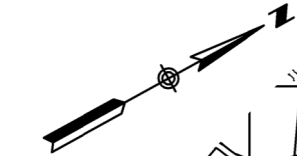
LEGEND



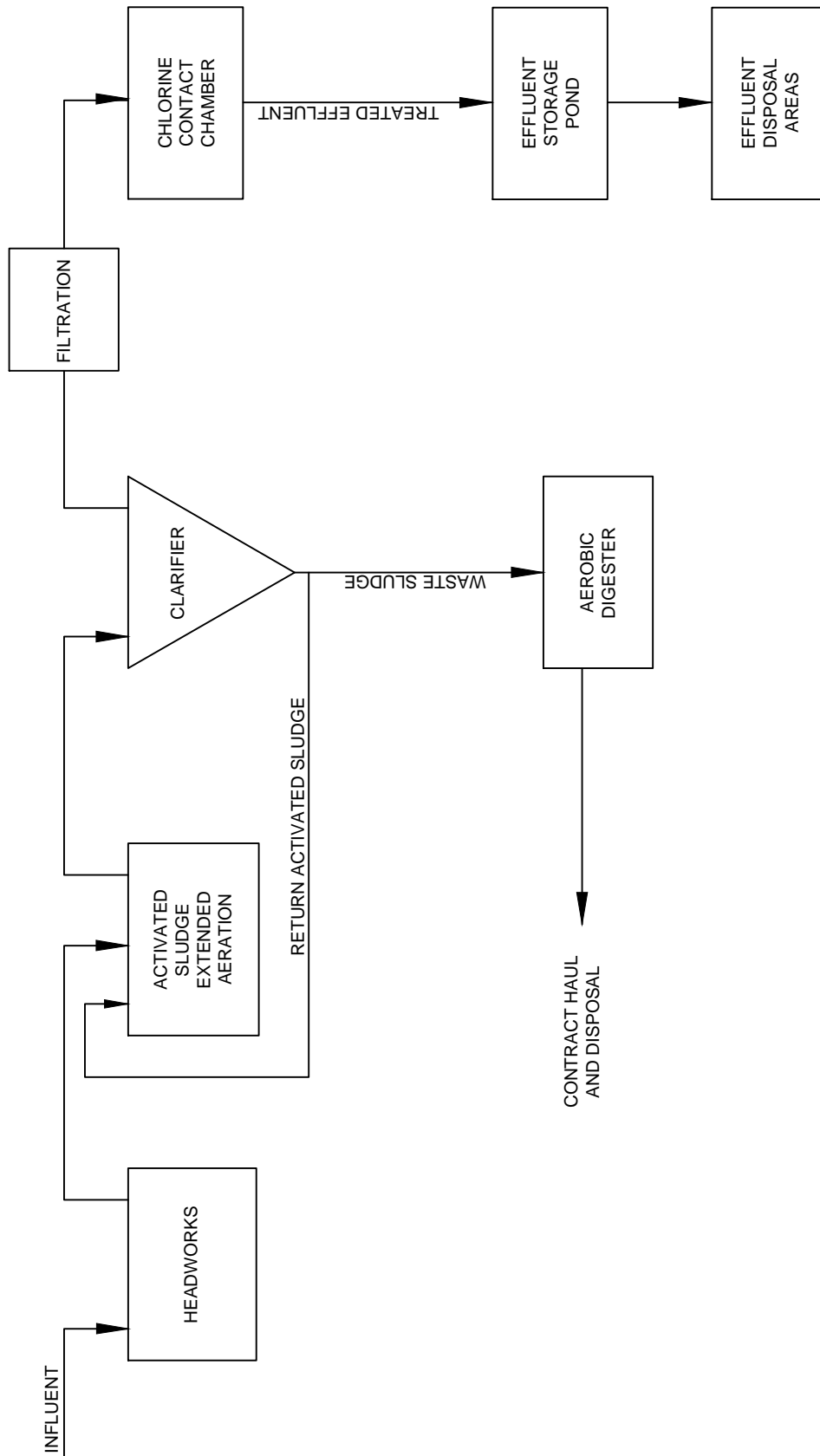
STREAM BUFFER



LAND APPLICATION SITE
(70.2 ac)



APPENDIX G
PROCESS FLOW DIAGRAMS



FOR PLANNING PURPOSES ONLY

INTERIM I PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



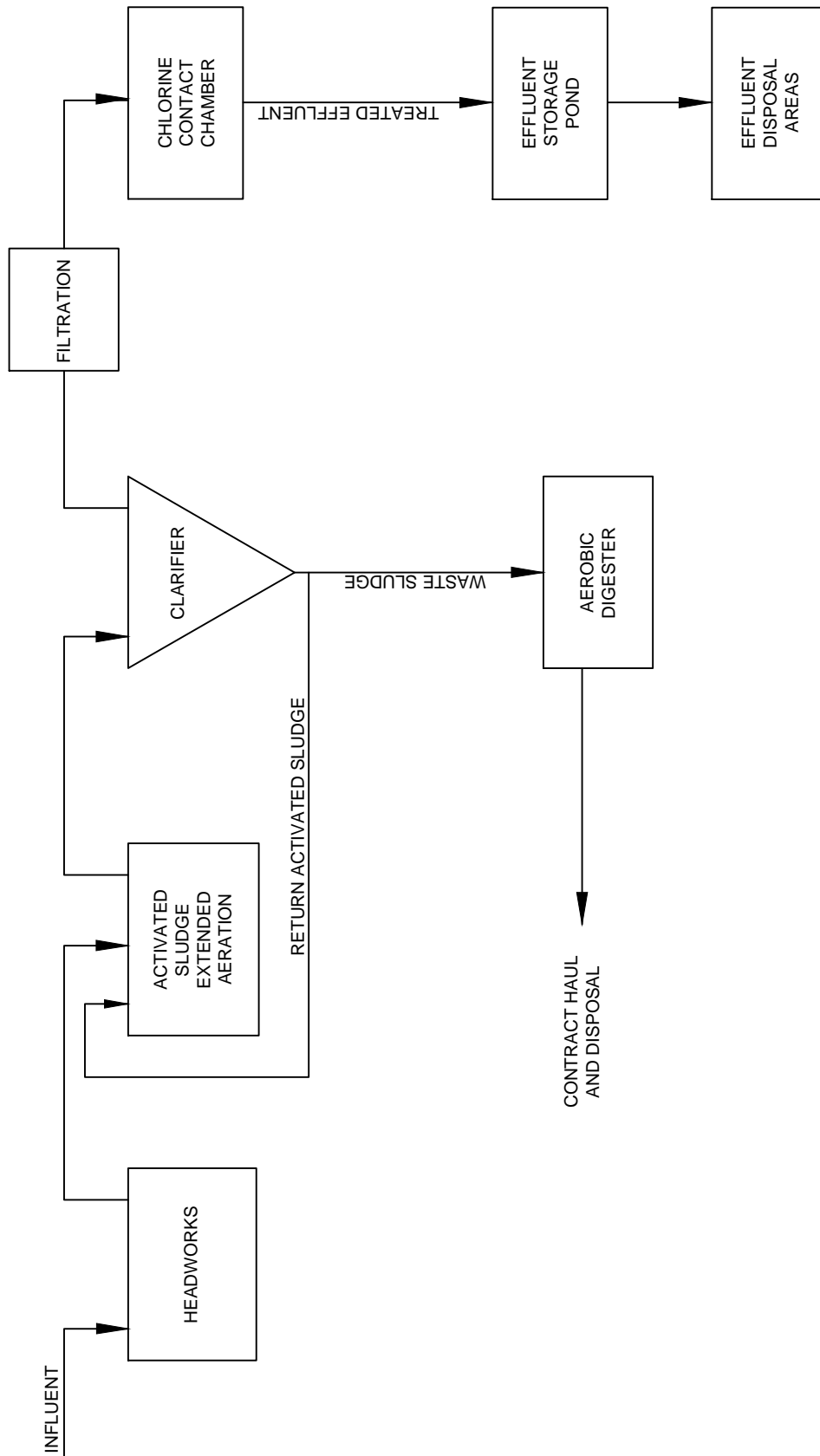
Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1



FOR PLANNING PURPOSES ONLY

INTERIM II PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



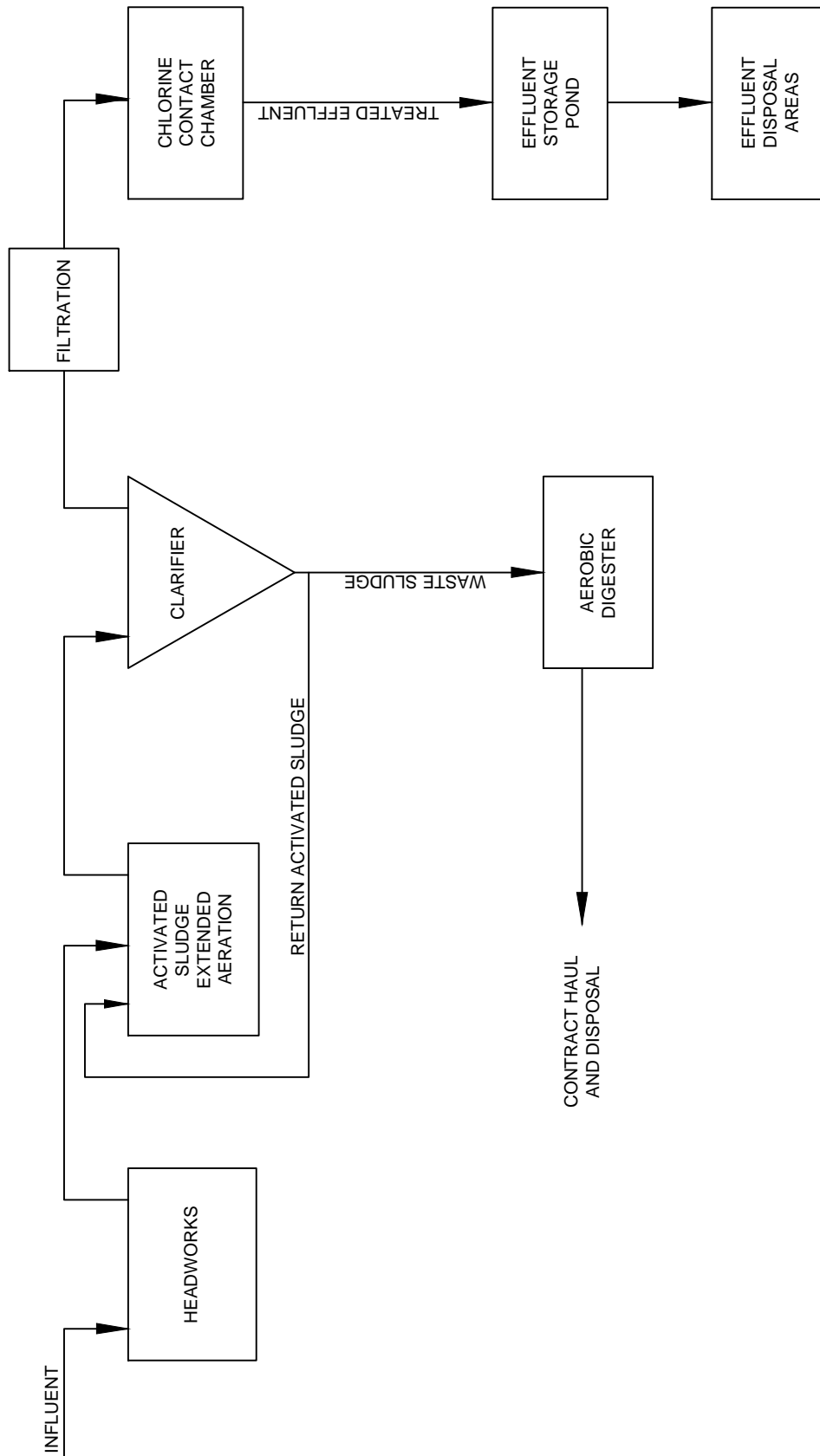
Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1



FOR PLANNING PURPOSES ONLY

FINAL PHASE

LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735



Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

SMITHWICK TRACT WWTP

BURNET COUNTY

PROCESS FLOW
DIAGRAM

1 OF 1

APPENDIX H
SITE DRAWING

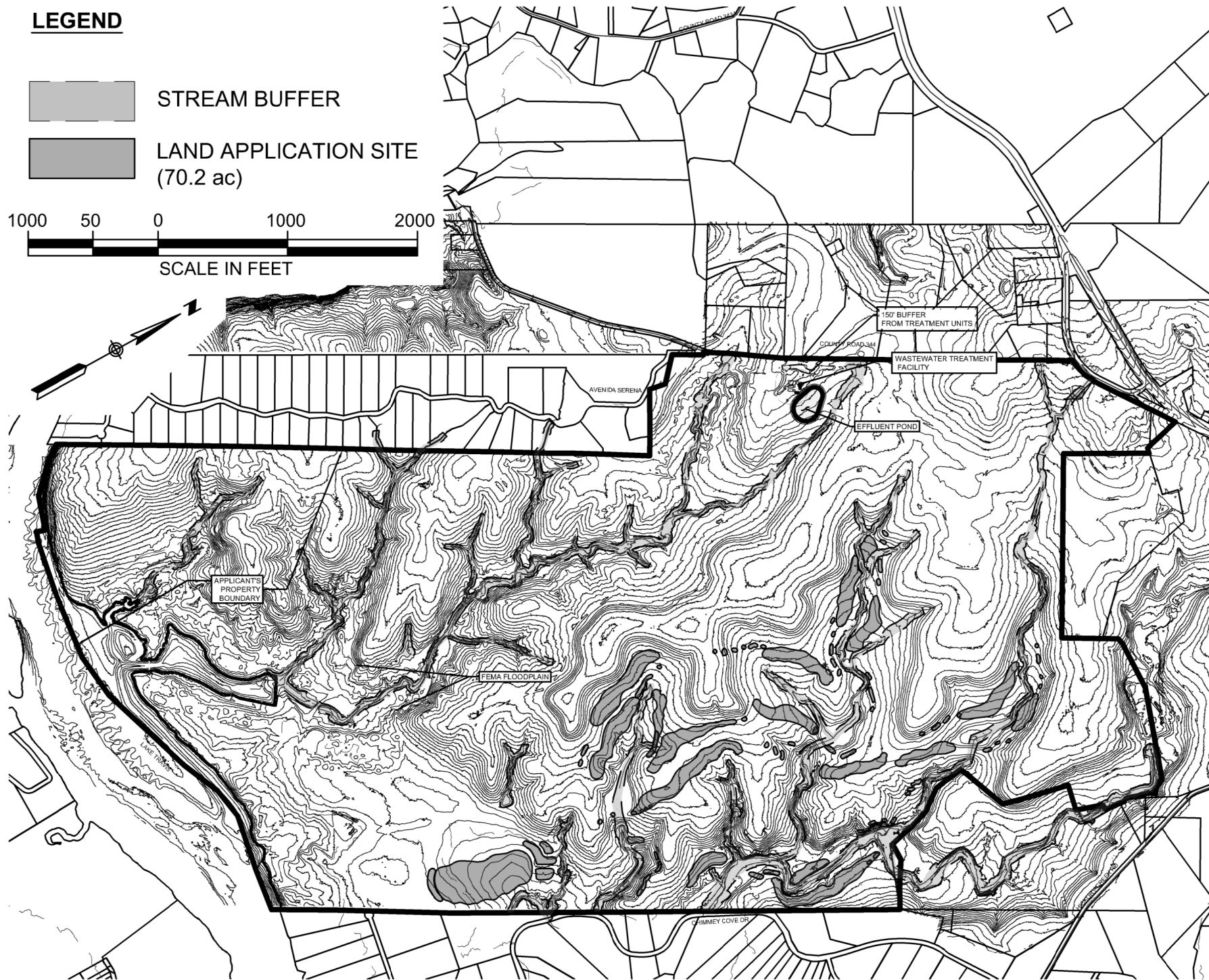
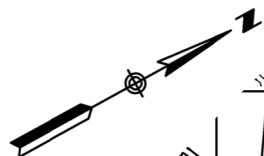
LEGEND



STREAM BUFFER



LAND APPLICATION SITE
(70.2 ac)



SITE DRAWING

SMITHWICK TRACT WWTP

BURNET COUNTY

1 OF 1



LJA Engineering, Inc.

7500 Rialto Blvd, Building II
Suite 100
Austin, Texas 78735

Phone 512.439.4700
Fax 512.439.4716
TBPE No. F-1386

APPENDIX J
DESIGN CALCULATIONS

Smithwick Tract - WWTP FLOW PHASES

Phase 1		Phase 2		Phase 3	
<u>Assumptions</u>		<u>Assumptions</u>		<u>Assumptions</u>	
Average Flow per LUE =	245 gpd	Average Flow per LUE =	245 gpd	Average Flow per LUE =	245 gpd
Average Density	3 LUEs/Ac	Average Density	3 LUEs/Ac	Average Density	3 LUEs/Ac
I/I for Wet Peak	750 gpd/Ac	I/I for Wet Peak	750 gpd/Ac	I/I for Wet Peak	750 gpd/Ac
LUEs	244	LUEs	489	LUEs	734
Average Daily Flow	59,780 gpd	Average Daily Flow	119,805 gpd	Average Daily Flow	179,830 gpd
	42 gpm	Average Daily Flow	83 gpm	Average Daily Flow	125 gpm
Dry Peaking Factor	3.84	Dry Peaking Factor	3.64	Dry Peaking Factor	3.50
Peak Dry Flow	160 gpm	Peak Dry Flow	303 gpm	Peak Dry Flow	437 gpm
Service Area	391 acres	Service Area	391 acres	Service Area	391 acres
I/I for Peak Wet	293,250 gpd	I/I for Peak Wet	293,250 gpd	I/I for Peak Wet	293,250 gpd
	204 gpm		204 gpm		204 gpm
Total Peak Wet Flow	363 gpm	Total Peak Wet Flow	506 gpm	Total Peak Wet Flow	641 gpm
Minimum Flow Factor	0.18	Minimum Flow Factor	0.21	Minimum Flow Factor	0.22
Minimum Flow	7 gpm	Minimum Flow	17 gpm	Minimum Flow	28 gpm

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 1

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.3 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	<input type="text" value="10"/> ft
Proposed Clarifier Diameter	<input type="text" value="18.5"/> ft
Clarifier Surface Area	<input type="text" value="269"/> ft ²
Clarifier Volume	<input type="text" value="2,688"/> ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²

Aeration System Design

(Criteria)

Organic Loading 15 lb BOD/day/1000 ft³
Actual Design Load 400

Required Volume ft³

Required Air Flow 3200 scf / lb BOD (assumes 4.0% transfer efficiency)

(Calculations)

Proposed Sidewater Depth ft

*Note - Min SWD is
8 ft*

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 2

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.3 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	<input type="text" value="10"/> ft
Proposed Clarifier Diameter	<input type="text" value="18.5"/> ft
Clarifier Surface Area	<input type="text" value="269"/> ft ²
Clarifier Volume	<input type="text" value="2,688"/> ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²

Aeration System Design

(Criteria)

Organic Loading 15 lb BOD/day/1000 ft³
Actual Design Load 400 lb BOD/day

Required Volume ft³

scf / lb BOD
(assumes 4.0%
transfer

Required Air Flow 3200 efficiency)

(Calculations)

Proposed Sidewater Depth ft

Note - Min SWD is
8 ft

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

US Trinity WWTP Extended Air Process Design (TCEQ Checklist)

Phase 3

Design Flow (from Summary Sheet)	0.060 mgd
Peak Flow (from Summary Sheet)	0.240 mgd
Design Organic Load	400 lb BOD / day

Clarifier Design

(Criteria)

Maximum Surface Loading @ Peak Flow	900 gpd/ft ²
Minimum Detention Time @ Peak Flow	2 hrs
Maximum Surface Loading @ Design Flow	450 gpd/ft ²
Minimum Detention Time @ Design Flow	4 hrs
Surface Area Required (Peak Flow)	266.7 ft ²
Surface Area Required (Design Flow)	133.33 ft ²
Volume Required (Peak Flow)	2,674 ft ³
Volume Required (Design Flow)	1,337 ft ³
Depth Required (Peak Flow)	10.0 ft
Depth Required (Design Flow)	10.0 ft
Maximum Return Sludge Underflow Rate	400.0 gpd/ft ²
Minimum Return Sludge Underflow Rate	200.0 gpd/ft ²

(Calculations)

Proposed Sidewater Depth	10 ft
Proposed Clarifier Diameter	18.5 ft
Clarifier Surface Area	269 ft ²
Clarifier Volume	2,688 ft ³
Maximum Return Sludge Underflow Rate	75 gpm
Minimum Return Sludge Underflow Rate	37 gpm
RAS Line Size (min 3 ft/sec velocity)	4 inches

Note - Min SWD is
8 ft, 10 ft if area >
1250 ft²

Aeration System Design

(Criteria)

Organic Loading	15 lb BOD/day/1000 ft ³
Actual Design Load	400 lb BOD/day
Required Volume	26667 ft ³
	scf / lb BOD (assumes 4.0% transfer efficiency)
Required Air Flow	3200

(Calculations)

Proposed Sidewater Depth ft

*Note - Min SWD is
8 ft*

Surface Area ft²

Air Flow scfm

Aerobic Digester Design

(Criteria)

Volume Required 20 ft³ / lb BOD
or 15 days SRT

Air Required 30 scfm/ 1000 ft³ volume

(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

Required Air Flow scfm

Chlorine Contact Design

(Criteria)

Minimum Contact Time 20 minutes @ Peak Flow

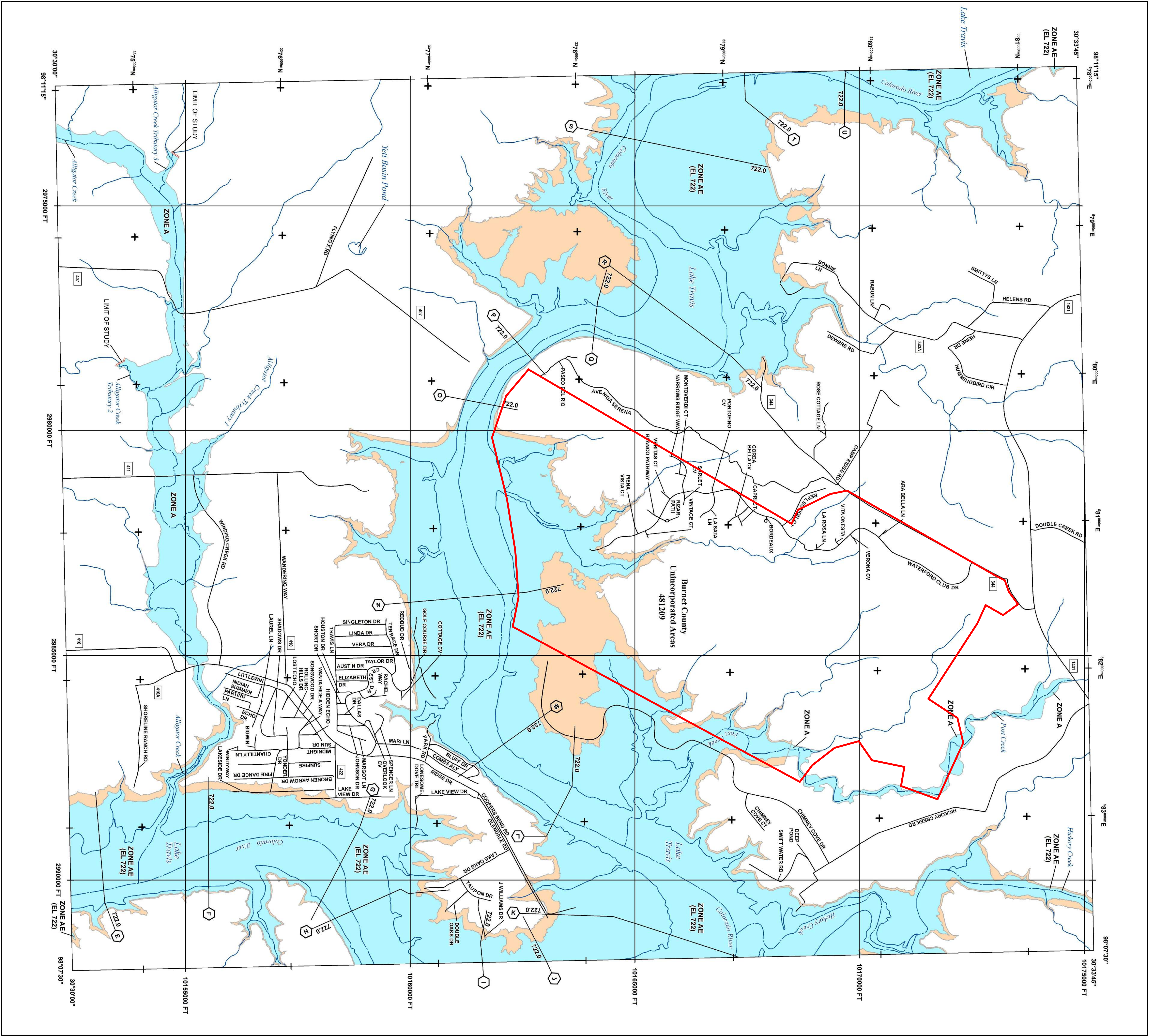
(Calculations)

Proposed Volume ft³

Proposed Sidewater Depth ft

Surface Area ft²

APPENDIX K
FEMA FLOOD MAPS AND WIND ROSE



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTPS://MSC.FEMA.GOV](https://msc.fema.gov)

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee See Notes, Zone X
- Area with Flood Risk due to Levee Zone D
- Area of Minimal Flood Hazard Zone X
- Area of Undetermined Flood Hazard Zone D

OTHER AREAS

- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall
- Cross Sections with 1% Annual Chance
- Water Surface Elevation
- Coastal Transect
- Profile Baseline
- Hydrographic Feature
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information Exchange at 1-877-FEMA-8080 or visit <https://www.fema.gov/nfip>. For more information on the NFIP, visit <https://www.fema.gov/nfip>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website. Communities seeking land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. There may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map data, refer to the Flood Insurance Study Report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-439-8620.

This map information shown on this FIRM was derived from digital data obtained from NFWL, dated 2014, and CACOG dated 2014 and 2016.

SCALE

SCALE

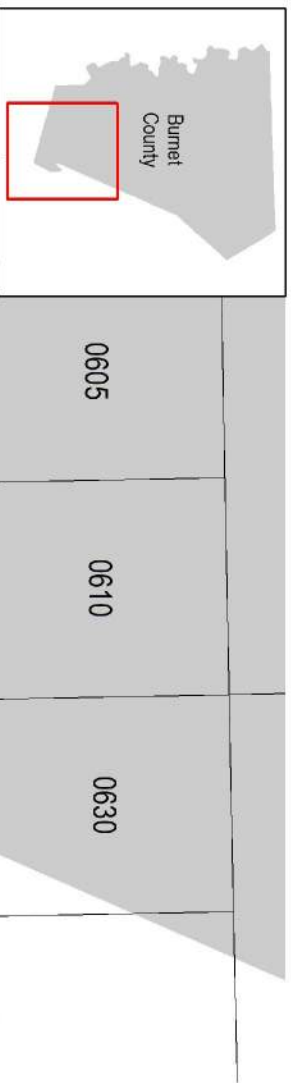
North Arrow

1 inch = 1,000 feet

0 1,000 2,000 4,000 feet

0 250 500 1,000 meters

PANEL LOCATOR



FEMA

National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

BURNET COUNTY TEXAS

PANEL 620 OF 725

Panel Contains:
COMMUNITY
BURNET COUNTY

NUMBER PANEL SUFFIX
481209 0620

VERSION NUMBER
2.3.3.3

MAP NUMBER
48053C0620G

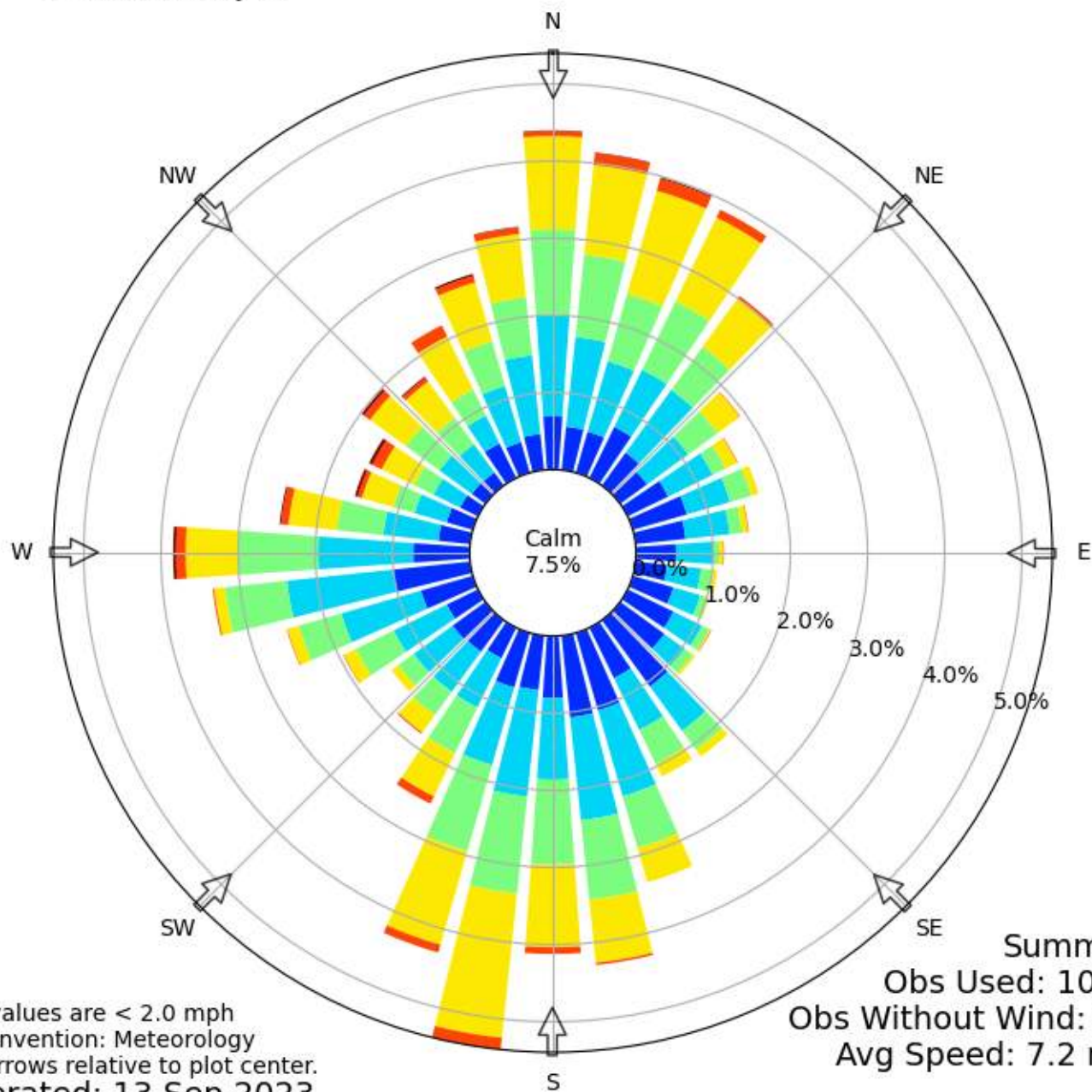
MAP REVISED
NOVEMBER 1, 2019



Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Jan 2009 12:25 AM - 31 Jan 2023 11:55 PM America/Chicago

↳ constraints: Jan



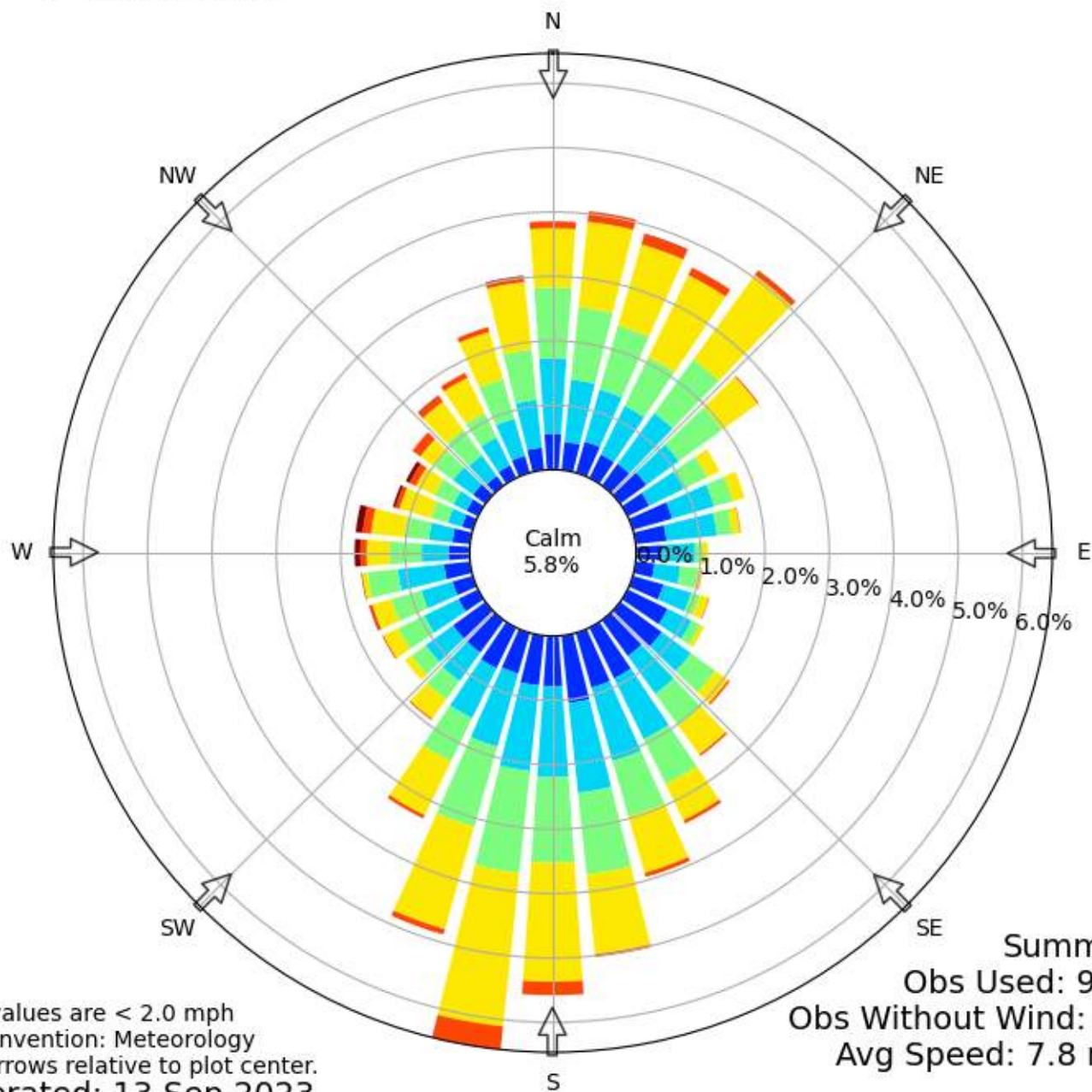
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10824
Obs Without Wind: 388
Avg Speed: 7.2 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Feb 2009 12:25 AM - 28 Feb 2023 11:55 PM America/Chicago
↳ constraints: Feb



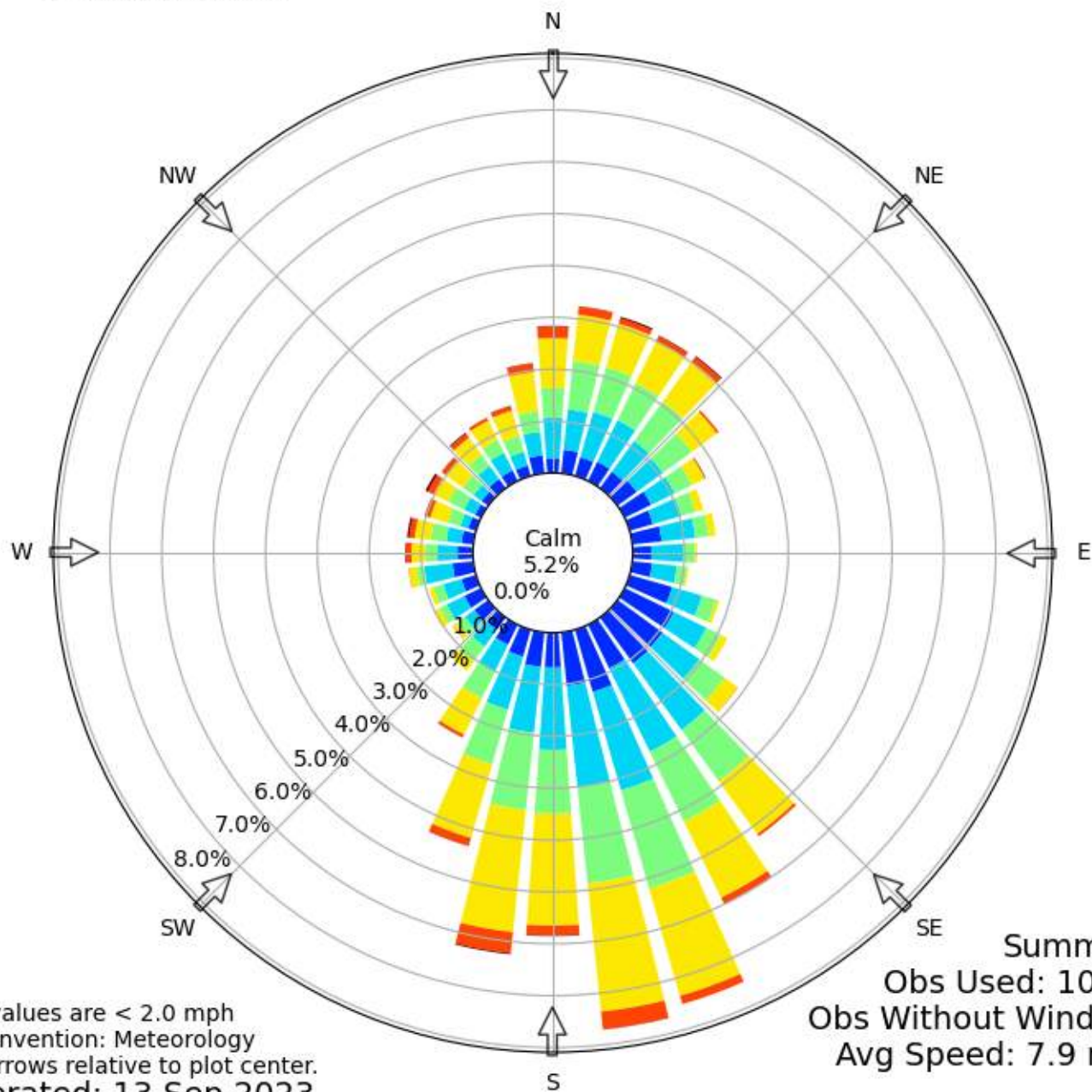
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 9559
Obs Without Wind: 431
Avg Speed: 7.8 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Mar 2009 12:25 AM - 31 Mar 2023 11:55 PM America/Chicago
↳ constraints: Mar



Summary
Obs Used: 10937
Obs Without Wind: 50
Avg Speed: 7.9 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

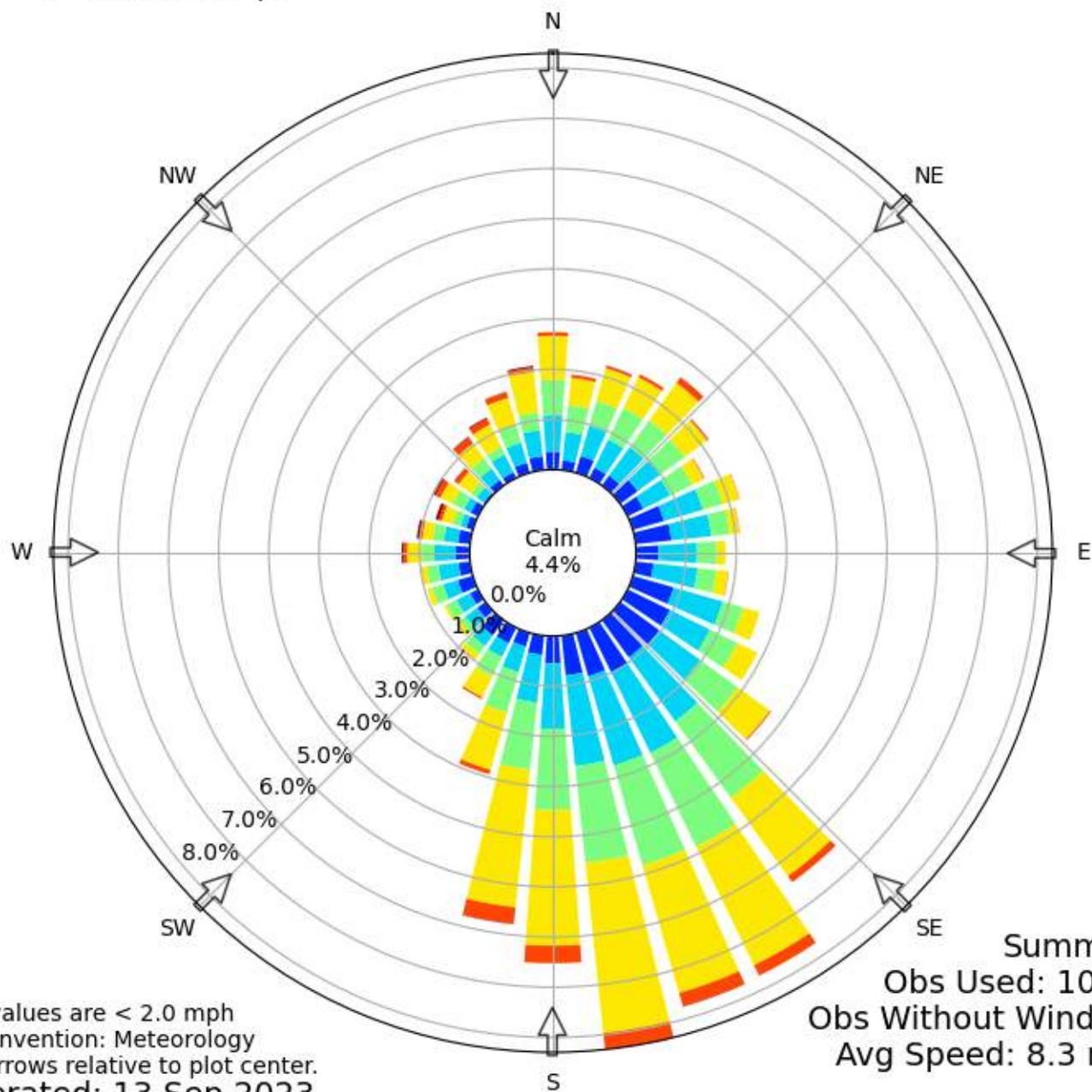




Windrose Plot for [RYW] Lago Vista

Obs Between: 13 Apr 2008 03:25 AM - 30 Apr 2023 11:35 PM America/Chicago

↳ constraints: Apr



Calm
4.4%

0.0%

1.0%

2.0%

3.0%

4.0%

5.0%

6.0%

7.0%

8.0%

Summary

Obs Used: 10913

Obs Without Wind: 40

Avg Speed: 8.3 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Wind Speed [mph]

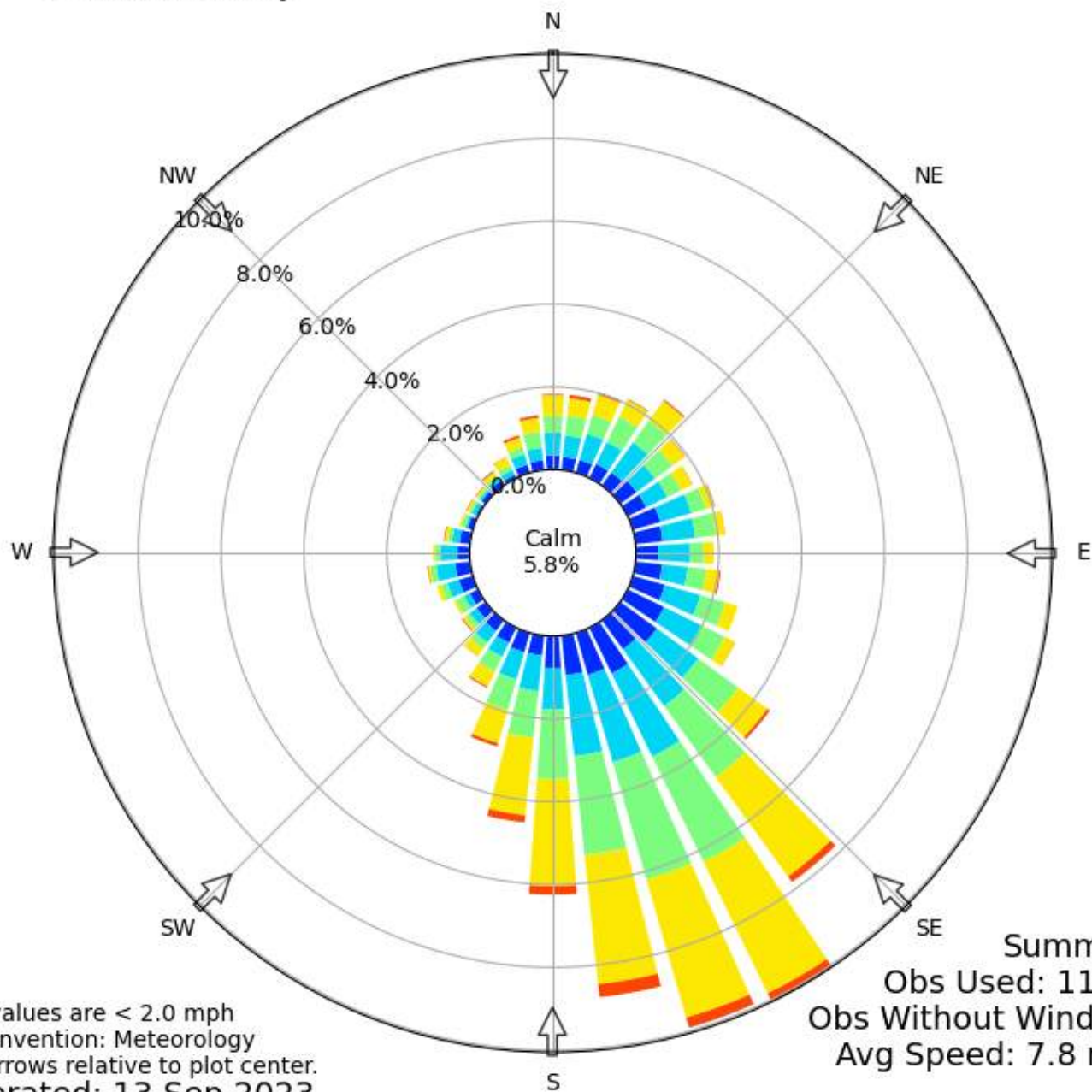




Windrose Plot for [RYW] Lago Vista

Obs Between: 01 May 2008 12:25 AM - 31 May 2023 11:55 PM America/Chicago

↳ constraints: May



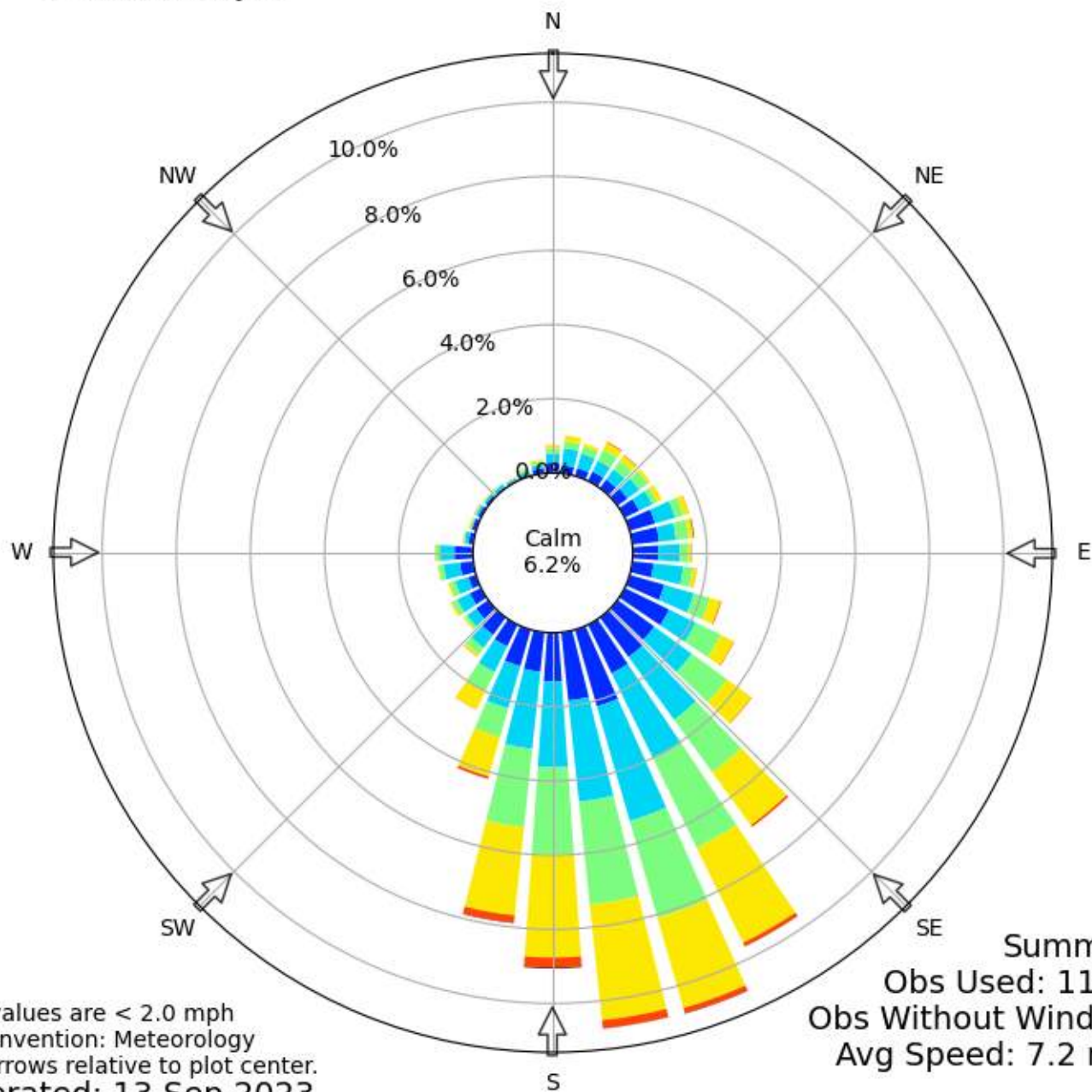
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11512
Obs Without Wind: 50
Avg Speed: 7.8 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Jun 2008 12:25 AM - 30 Jun 2023 11:55 PM America/Chicago
↳ constraints: Jun



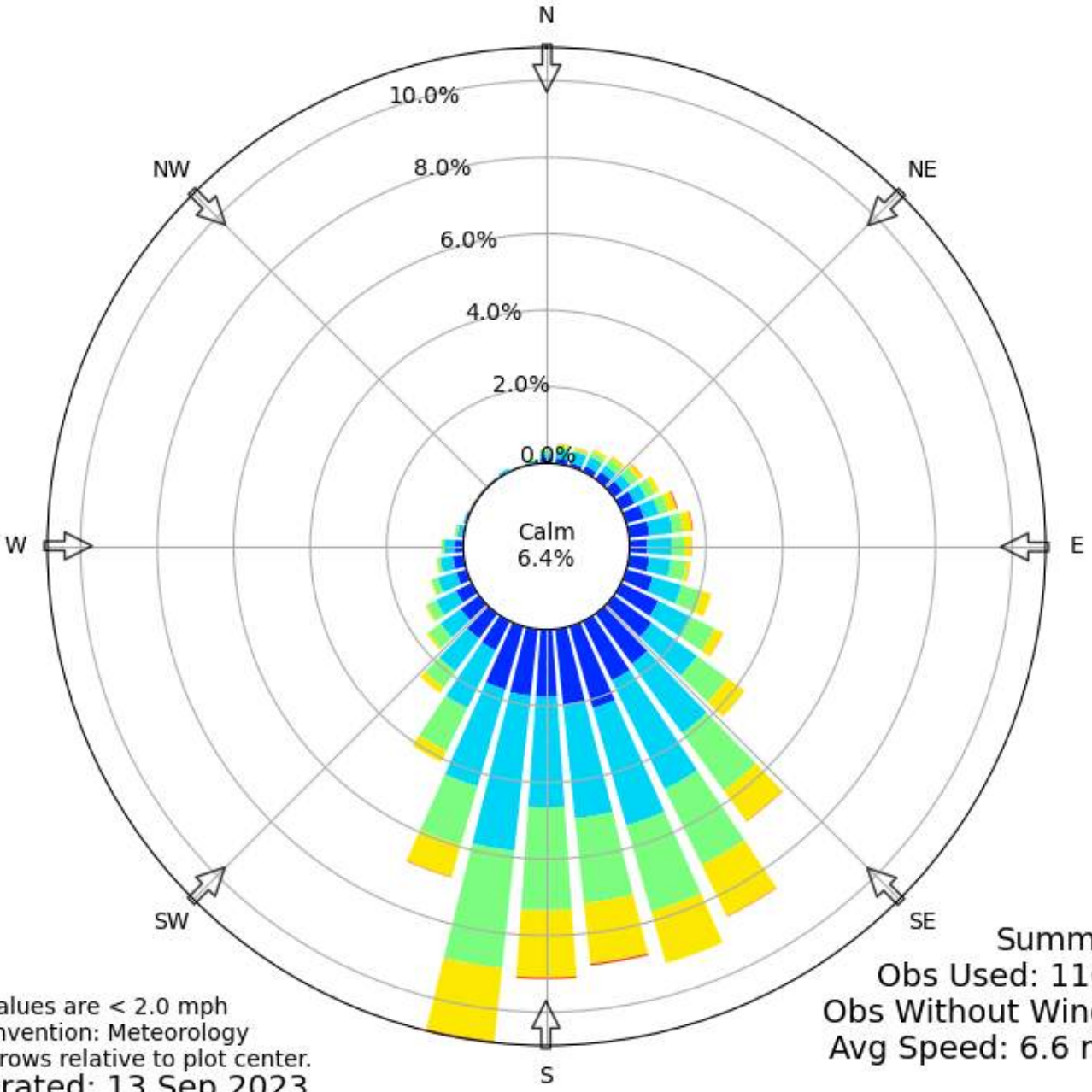
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11361
Obs Without Wind: 69
Avg Speed: 7.2 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Jul 2008 12:25 AM - 31 Jul 2023 09:35 PM America/Chicago
↳ constraints: Jul



Summary
Obs Used: 11661
Obs Without Wind: 8
Avg Speed: 6.6 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

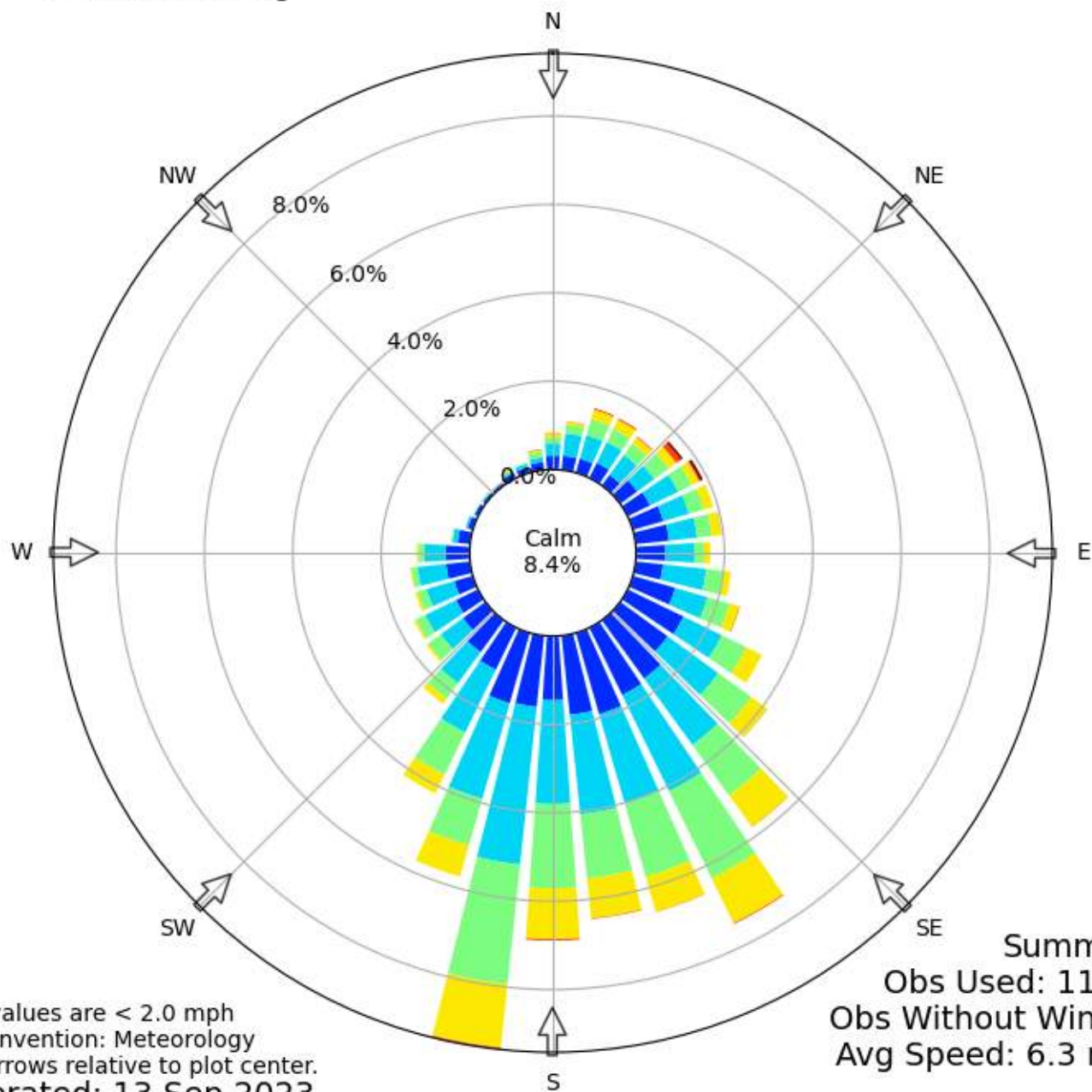




Windrose Plot for [RYW] Lago Vista

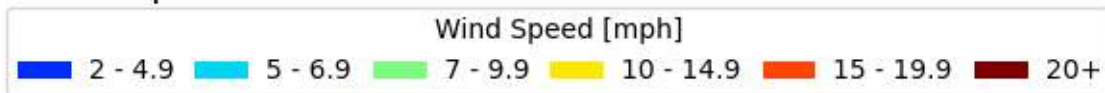
Obs Between: 01 Aug 2008 12:25 AM - 31 Aug 2023 11:55 PM America/Chicago

↳ constraints: Aug



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 11715
Obs Without Wind: 4
Avg Speed: 6.3 mph

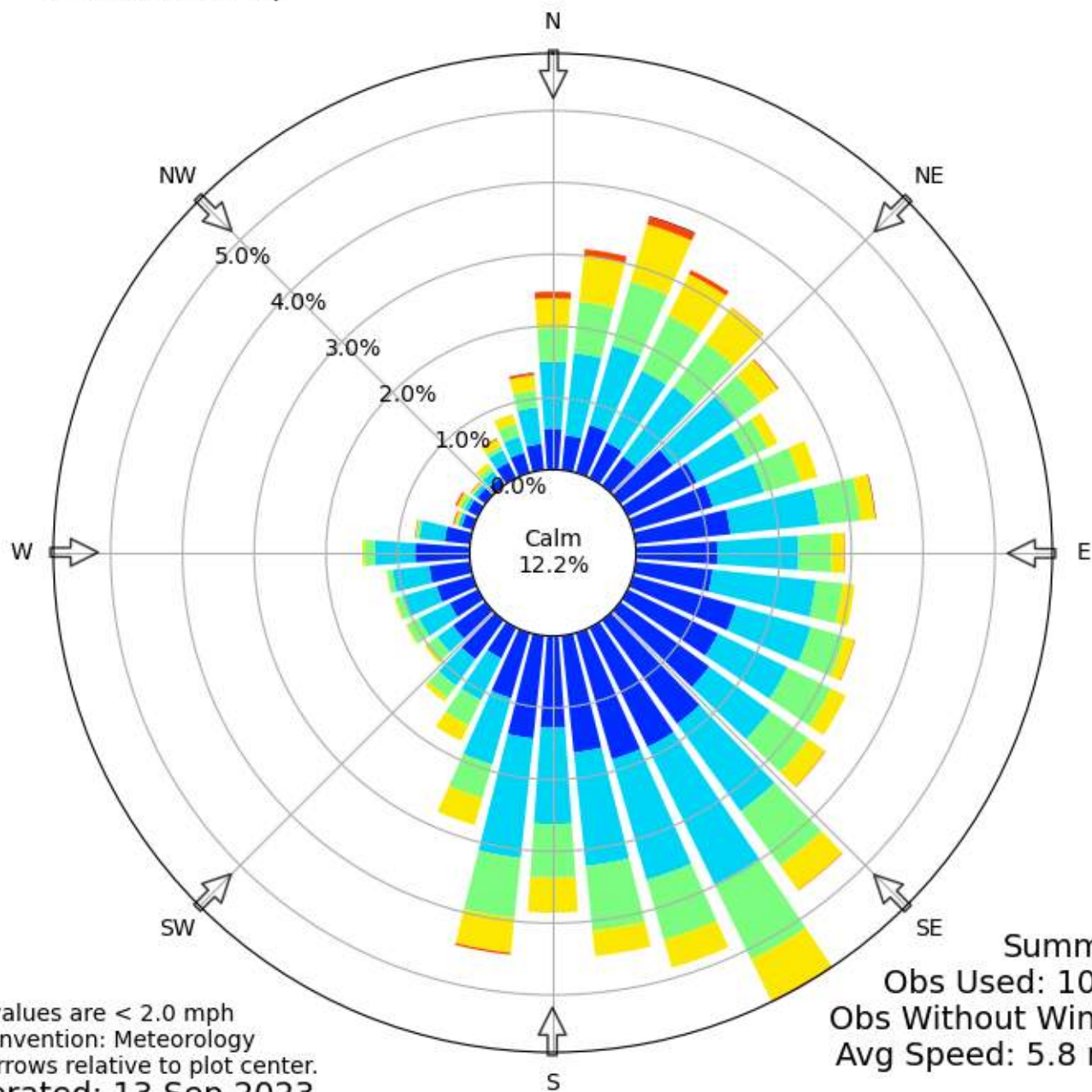




Windrose Plot for [RYW] Lago Vista

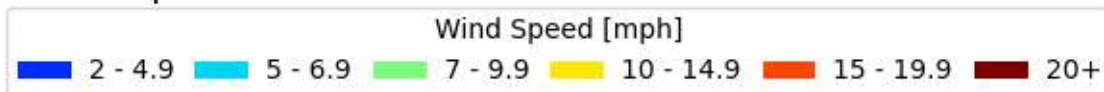
Obs Between: 01 Sep 2008 12:25 AM - 13 Sep 2023 02:55 AM America/Chicago

↳ constraints: Sep



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10698
Obs Without Wind: 6
Avg Speed: 5.8 mph

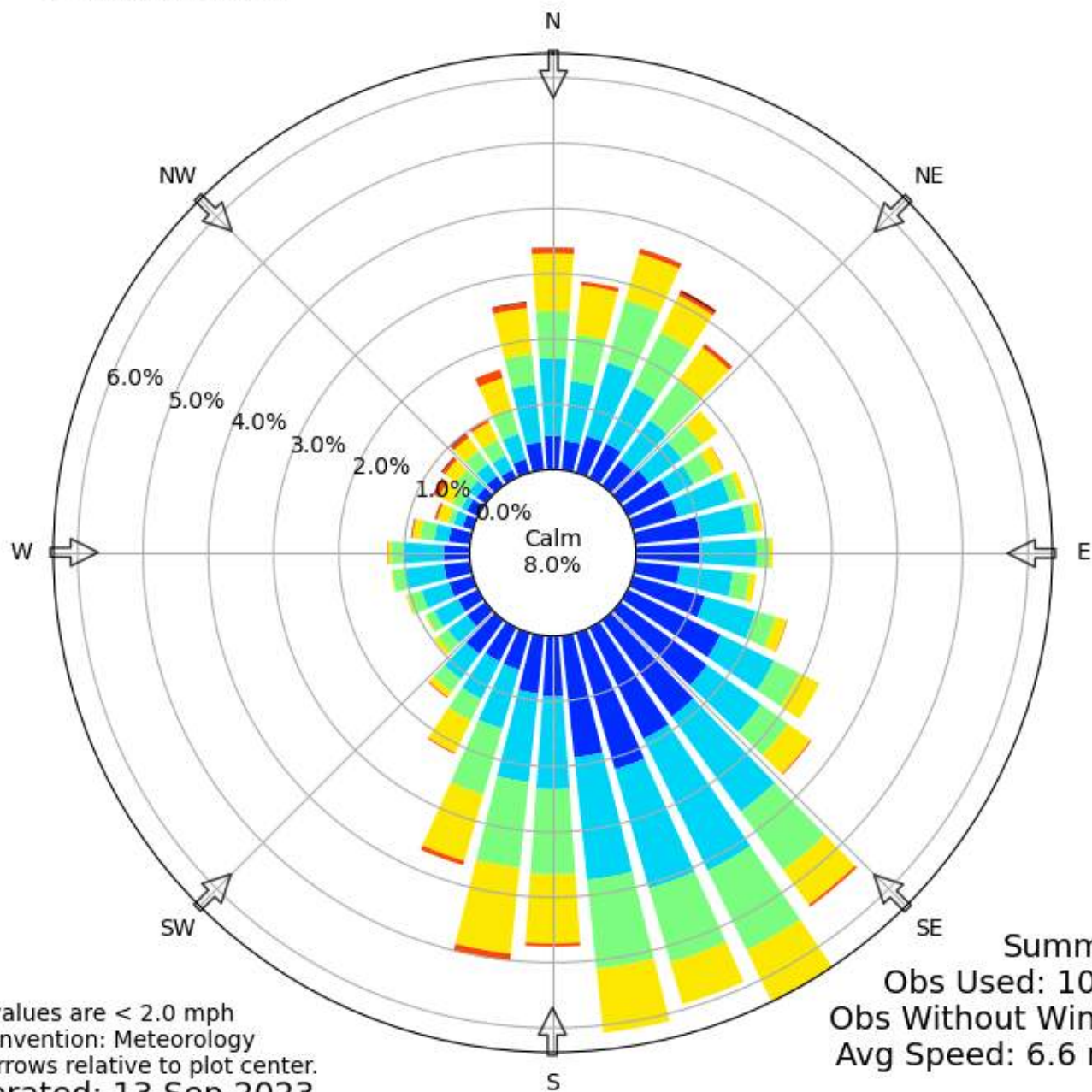




Windrose Plot for [RYW] Lago Vista

Obs Between: 01 Oct 2008 12:25 AM - 31 Oct 2022 11:55 PM America/Chicago

↳ constraints: Oct



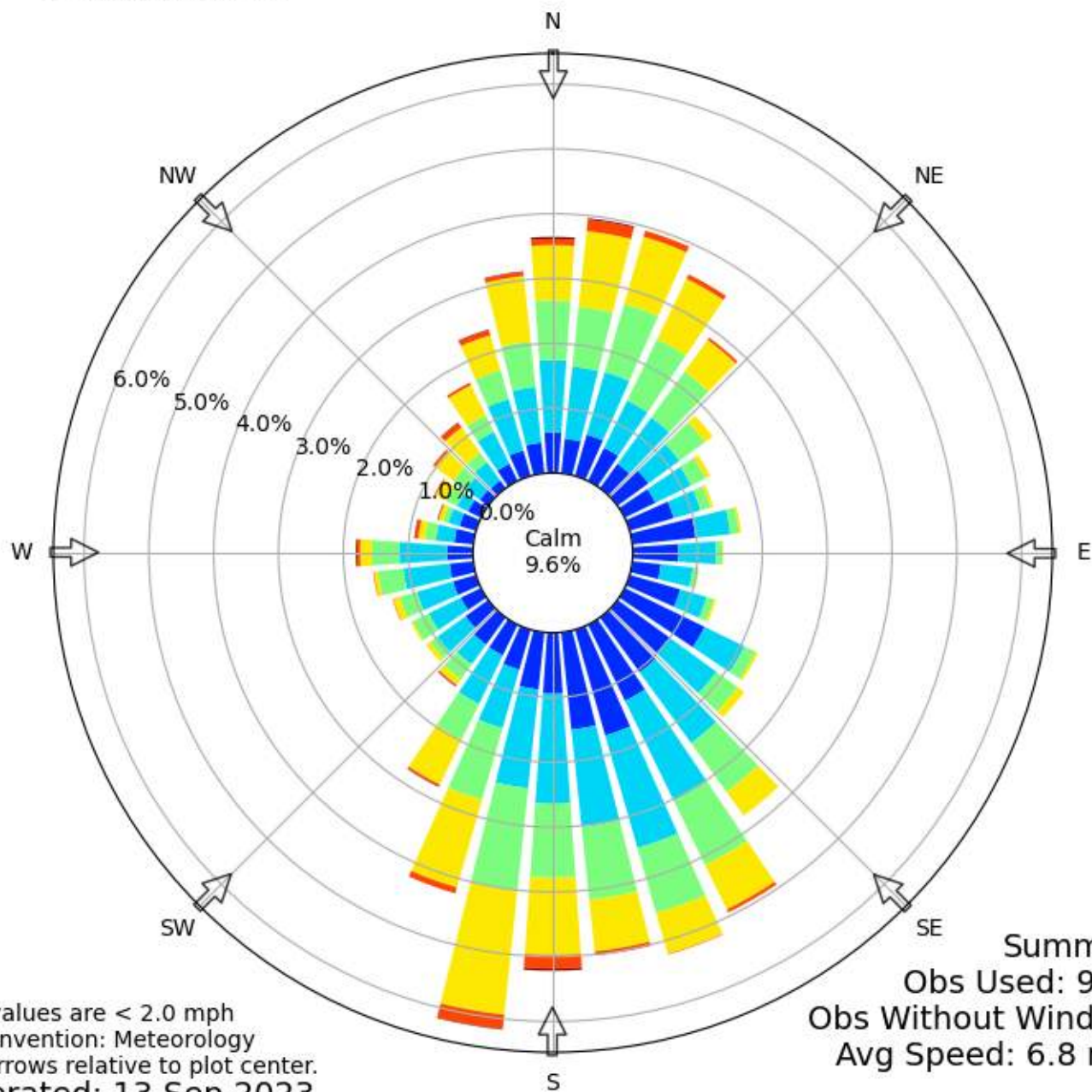
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10035
Obs Without Wind: 8
Avg Speed: 6.6 mph





Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Nov 2008 01:25 AM - 30 Nov 2022 11:55 PM America/Chicago
↳ constraints: Nov



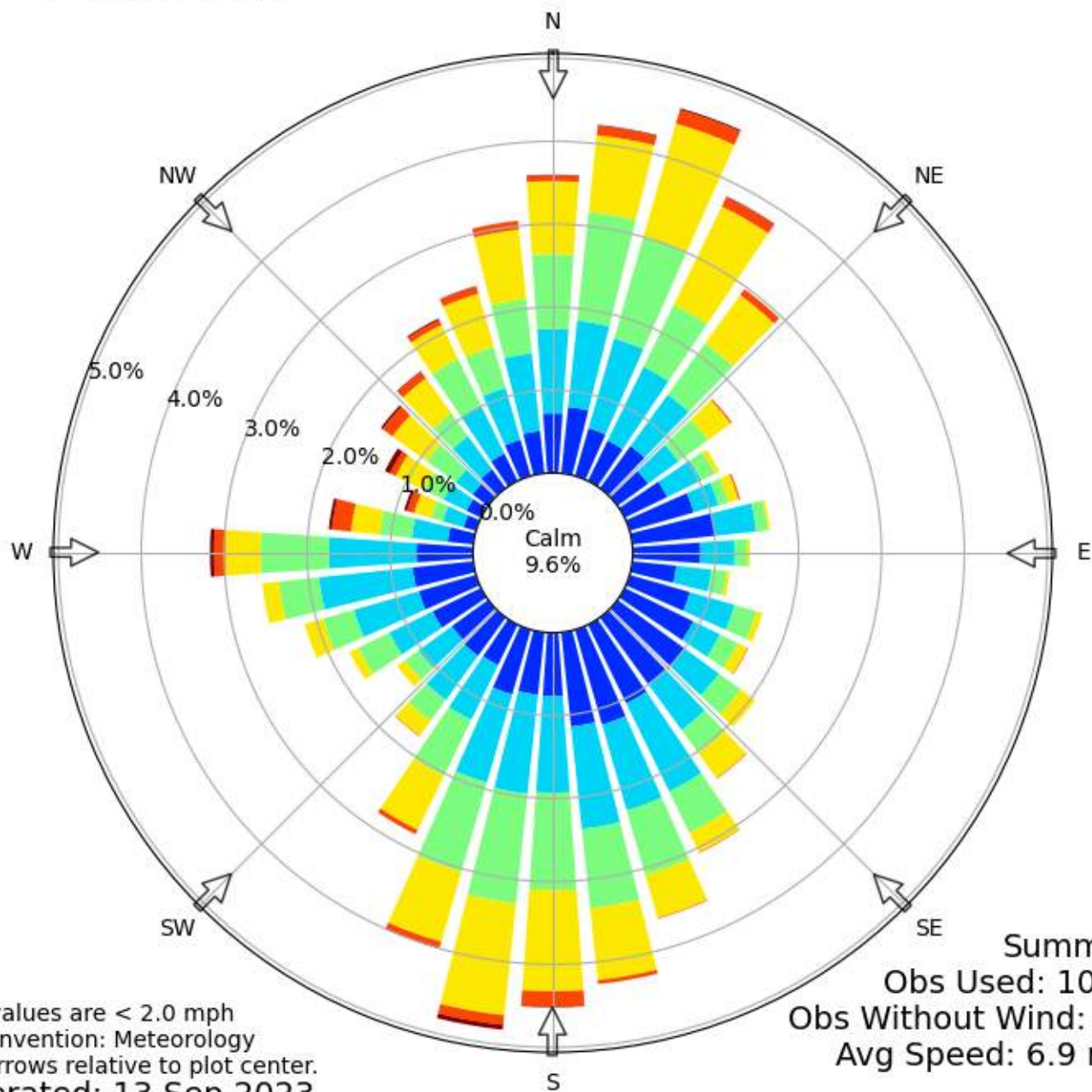
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 9493
Obs Without Wind: 22
Avg Speed: 6.8 mph



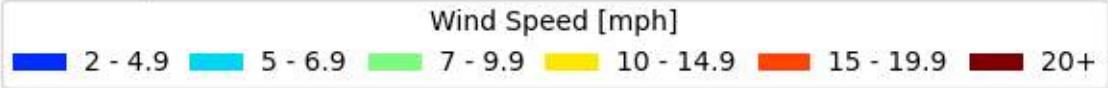


Windrose Plot for [RYW] Lago Vista
Obs Between: 01 Dec 2008 12:25 AM - 31 Dec 2022 11:55 PM America/Chicago
↳ constraints: Dec



Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 13 Sep 2023

Summary
Obs Used: 10444
Obs Without Wind: 130
Avg Speed: 6.9 mph



APPENDIX L
SEWAGE SOLIDS MANAGEMENT PLAN

SMITHWICK TRACT
WWTP

First Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
60,000	8,000	25%	15,000	13	16	246	243
	59,840	50%	30,000	26	33	492	122
		75%	45,000	39	49	737	81
		100%	60,000	52	66	983	61

Interim Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
120,000	16,000	25%	30,000	26	33	492	122
	119,680	50%	60,000	52	66	983	61
		75%	90,000	79	98	1,475	41
		100%	120,000	105	131	1,966	30

Final Phase

Design Flow <i>gpd</i>	Vol Dig <i>ft³ (gal)</i>	Percentage	Flow <i>gpd</i>	P _x <i>lbs VSS/day</i>	P _{x (ss)} <i>lbs SS/day</i>	Q _{Sldg} <i>gpd</i>	HRT _{Sldg} <i>days</i>
180,000	24,000	25%	45,000	39	49	737	81
	179,520	50%	90,000	79	98	1,475	41
		75%	135,000	118	148	2,212	27
		100%	180,000	157	197	2,949	20

Sludge will be wasted from the clarifier underflow to the digester. Sludge will stay in the digester with the decant returned to the headworks of the plant. Sludge will be removed from the digester on a schedule approximate to the HRT of the digester.

APPENDIX M
POND LINER CERTIFICATION

APPENDIX M

POND LINER CERTIFICATION

The pond liner will be geomembrane with an underdrain and a leak detection system. It will have a minimum thickness of 45 mils and will include sampling points. Final Design by a licensed Texas PE will be included in the construction plans submitted to TCEQ for review and approval prior to construction.

APPENDIX N
ANNUAL CROPPING PLAN

CROPPING PLAN

FOR

**SMITHWICK TRACT WASTEWATER TREATMENT PLANT
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

May 2024

PREPARED BY

**LJA ENGINEERING, INC.
7500 RIALTO BLVD, BUILDING II, SUITE 100
AUSTIN, TEXAS 78735
(512) 439-4700**

CROPPING PLAN

The proposal for the wastewater application areas is to remove the smaller ashe juniper trees, import soil, construct final golf course grading, install the spray lines and overseed with Turf Grass. The irrigation areas will be over seeded with turf grasses year-round to ensure consistent uptake of water and nutrients. The irrigation areas will be mowed regularly, and maintain a height of approximately 0-2 inches, to ensure that the grasses will be actively growing at all times. No supplemental irrigation will be needed.

There are no plans to fertilize the grasses other than germination. Fertility recommendations for the grasses to be used at this site are generally 100-150 lbs/acre of N. The grasses will be fertilized for germination and it is not anticipated to fertilize in the future.

Turf grasses are very salt tolerant, and this site is not expected to develop any salinity problems.

Site Preparation

Preparing the site involves removing trees and debris, planning for drainage, and grading the site.

1. Remove debris. Insist that the builder not use the site as a dumping ground for paint, concrete, and other materials.
2. Remove trees and surface rocks and debris from the site.
3. Soil depth of 19 inches minimum is required. Measure soil depths and import as necessary.
4. Plan for easy maintenance and a pleasing appearance. Avoid terraces, steep grades, poorly drained areas, and heavily shaded spots. Grading shall not exceed 8% on areas to be irrigated.
5. Shape the underlying subsoil to the desired contour and redistribute topsoil uniformly above the subsoil. A percent slope minimum is needed for proper drainage away from buildings. Make certain the soil is firmed after shaping. There should be no visible footprints after walking on it.
6. Water the area to enhance settling. Fill areas that settle unevenly to avoid standing water.

Soil Preparation

Well-prepared soil with adequate nutrients for growing grass encourages the development of a healthy field.

1. Take soil samples from the irrigation areas to determine soil pH and nutrient requirements. A single soil test may be all that is necessary if there are no obvious differences in soil texture, terrain, or troubled areas of the front yard and backyard. If the soils seem different, collect soil samples to a depth of 3 to 4 inches from several (10-15) locations and mix them together to produce a composite sample.
2. Based on the soil test report recommendations of the fertilization guidelines presented below, incorporate lime and fertilizer into the top 6 to 8 inches of the soil using a disk or rototiller. Regardless of the region, a deeper root system is able to extract more moisture and nutrients from the soil, improving drought tolerance and overall health of the plant.
3. Rake or harrow the site to establish a smooth and level final grade. Soil particles should be no larger than marble size, and pea gravel size is even better. Hand raking is the best way to level the soil and work out hills and hollows. Allow time for rain or irrigation to settle the soil and roll or cultipack lightly to firm the soil before planting seed. Hand rake again to break up the crusty surface before planting.
4. Prior to irrigation, a minimum of 19 inches of soil must be present in all proposed irrigation areas.

Turf Grass

Turf grass is extremely drought tolerant and grows rapidly on any type of soil except where drainage is poor. Cultivar texture ranges from coarse to fine, and it forms a dense, durable surface when grown in full sunlight. The majority of cultivars will not tolerate shade. Turf grass is well adapted to sandy soils. It establishes quickly, withstands wear and traffic, and recovers rapidly from injury.

Common Bermudagrass, which is the most coarsely textured, can be seeded. Several newer cultivars, however, can also be seeded that have a medium texture. Bermudagrass should be seeded at 1 to 2 pounds per 1,000 sq ft.

Establishing a healthy, attractive field means planting the best grass for your site at the right time and in a careful manner. Grass can be seeded or established using vegetation in the form of sprigs, plugs, or sod. The type of grass and the planting method you select will determine the best time of year to plant. Site and soil preparation, including fertilization, are especially important.

Mowing

Use a rotary (centrifugal) mower.

1. Keep the mower blades sharp and balanced. The leanest cut and best mowing are obtained when the mower blades are sharp. Dull mower blades reduce field quality by tearing instead of cleanly cutting the grass. Tearing creates many ragged leaf ends that quickly wither and bleach and are easy ports of entry for disease. Using a sharp mower is especially important for difficult-to-mow grasses, such as Bermudagrass. A properly sharpened and balanced mower blade will also reduce mower vibration, lengthen mower life, and reduce fuel consumption by as much as 22 percent.
2. Mow at the proper height. The frequency of mowing is governed by the desired grass height and by the amount of growth, which depends on temperature, fertility, moisture conditions, season, and the natural growth rate of the grass. In most instances, this may amount to biweekly and weekly mowing. To maintain a high-quality field, turfgrass should be cut often enough that less than 50 percent of the leaf surface is removed with each mowing. If the field gets too high during wet seasons, rise the mower and cut off a fourth to a half of the present growth. Then lower the mower to its proper height and mow again in a day or two.
3. Rake, bag, and remove the clippings when harvesting is required. If prolonged periods of rainfall prevent mowing, clippings may be long enough to shade or smother the grass. In this case, rake, bag, and remove clippings. Collected clippings can be used as mulch around trees and shrubs or added to compost.

Fertilization

As recommended above, it's best to submit a soil sample for testing when establishing a new field to determine how much lime fertilizer should be added to your soil. Fertilize before planting. Apply fertilizer and lime when soil is prepared based on these guidelines:

If you obtained a soil test: Apply the amount of lime and fertilizer recommended for your soil by the soil testing laboratory.

1. Apply 75 pounds of ground limestone per 1,000 sq ft.
2. Apply a starter type fertilizer (one that is high in phosphorous based on the type of grass and the planting method. Fertilizer bags have a three-number system indicating the primary nutrients, such as 8-8-8 or 5-10-10. These numbers denote the N-P-K ratio – the percentage of each nutrient in a fertilizer. The percentages are always noted in the following order:
 - a. N Nitrogen for green color and growth
 - b. P₂O₅ Phosphorous for good establishment and rooting
 - c. K₂O Potassium to enhance past and environmental stress tolerance.

Some common examples of starter type fertilizers required for a 1,000 sq ft area include 40 pounds of 5-10-10, 20 pounds of 10-20-20, or 16 pounds of 18-24-6. For sandy soils, fertilizer rates should be increased by 20 percent.

APPENDIX O

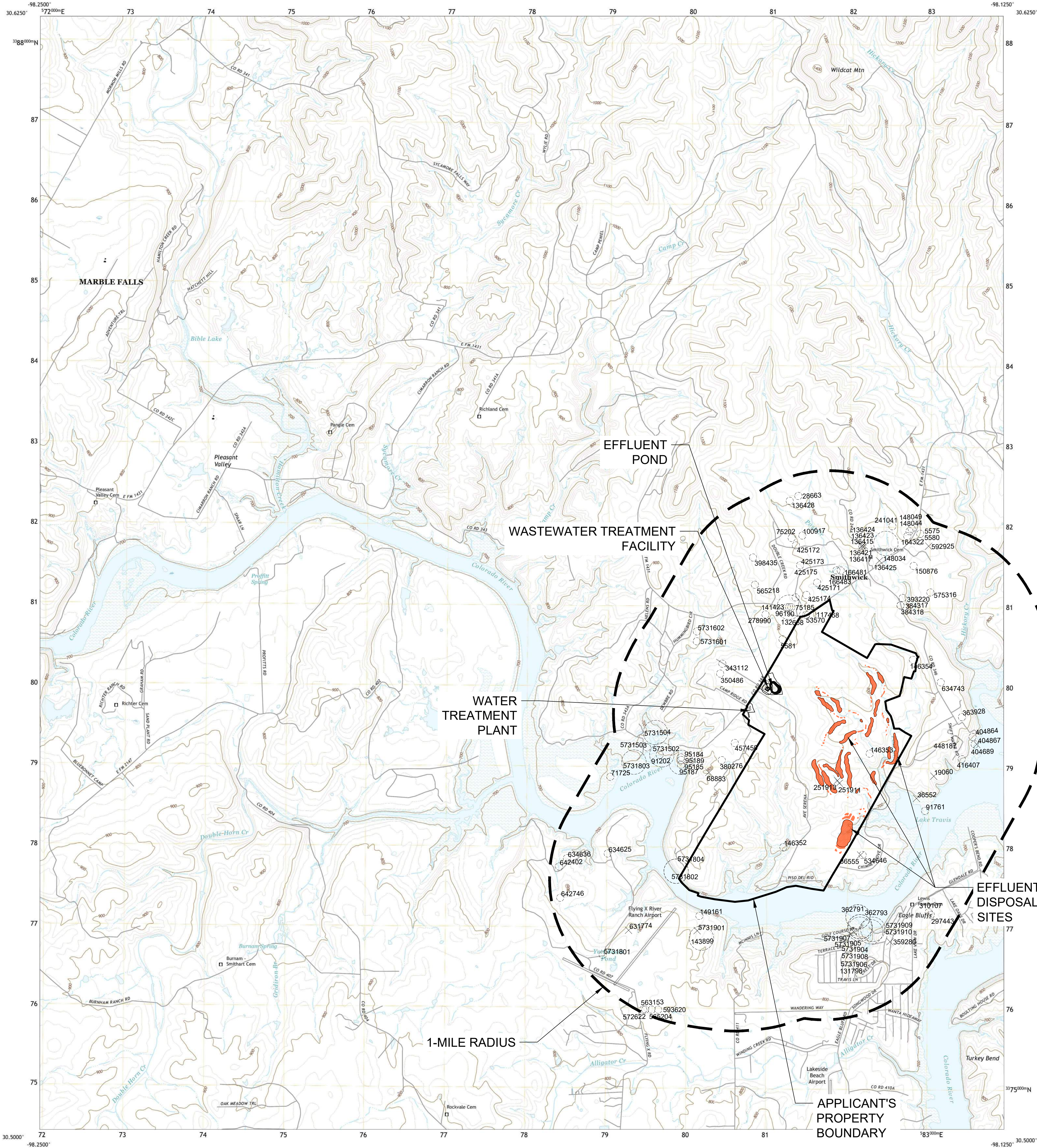
USGS WELL MAP AND WELL INFORMATION



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

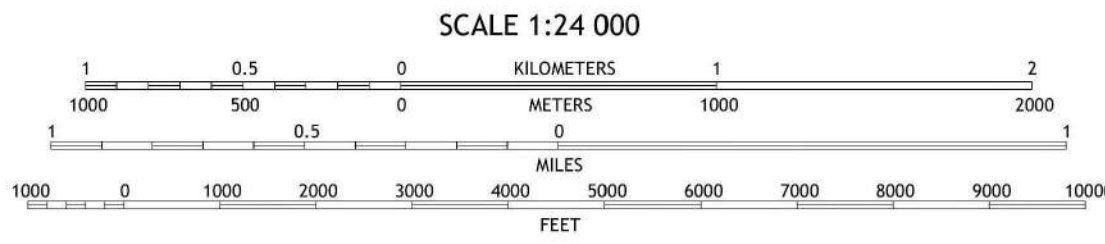
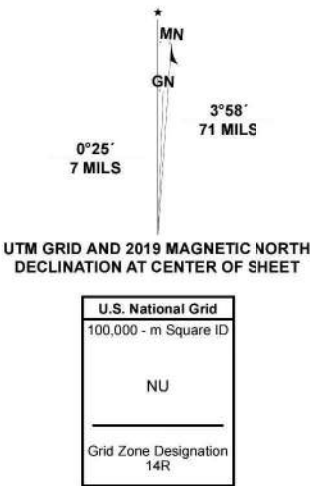


SMITHWICK QUADRANGLE
TEXAS - BURNET COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2002
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contour.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

1 Longhorn Cavern
2 Horns Hill
3 Bertram
4 Marble Falls
5 Travis Peak
6 Round Mountain
7 Spicewood
8 Pace Bend

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

SMITHWICK, TX
2022

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
5731502	131798		30.541945	-98.169167	Public Supply	Unknown	Unknown	500' Buffer Zone
5731504			30.544445	-98.17	Unused	Unknown	Unknown	150' Buffer Zone
5731802			30.528889	-98.167222	Public Supply	Unknown	Open	500' Buffer Zone
5731804			30.528889	-98.167222	Public Supply	Unknown	Unknown	500' Buffer Zone
5731602			30.555834	-98.164723	Unused	Unknown	Unknown	150' Buffer Zone
5731901			30.522222	-98.164445	Plugged or Destroyed	No	Plugged	Plugging
5731905			30.522222	-98.144167	Unused	Unknown	Unknown	150' Buffer Zone
5731801			30.519444	-98.176667	Domestic	Unknown	Unknown	150' Buffer Zone
5731910			30.522222	-98.141945	Public Supply	Unknown	Unknown	500' Buffer Zone
5731503			30.542778	-98.171111	Public Supply	Unknown	Unknown	500' Buffer Zone
5731907			30.522222	-98.144167	Plugged or Destroyed	No	Plugged	Plugging
5731909			30.5225	-98.141667	Public Supply	Unknown	Unknown	500' Buffer Zone
5731904			30.5225	-98.143334	Public Supply	Unknown	Cased	500' Buffer Zone
5731906			30.522778	-98.143334	Public Supply	Unknown	Unknown	500' Buffer Zone
5731908			30.522778	-98.143334	Public Supply	Unknown	Unknown	500' Buffer Zone
5731601			30.554723	-98.164723	Unused	Unknown	Unknown	150' Buffer Zone
5731803			30.541111	-98.172778	Public Supply	Unknown	Unknown	500' Buffer Zone
5732401			30.556112	-98.120278	Public Supply	Unknown	Unknown	500' Buffer Zone
	5575	107449	30.566944	-98.135834	Domestic	Unknown	Cased	150' Buffer Zone
	5580		30.566112	-98.135834	Domestic	Unknown	Cased	150' Buffer Zone
	5581		30.555001	-98.153612	Domestic	Unknown	Cased	150' Buffer Zone
	19060		30.539722	-98.133889	Domestic	No	Plugged	Plugging
	28663		30.571111	-98.151667	Domestic	Unknown	Cased	150' Buffer Zone
	36552		30.537222	-98.136111	Domestic	No	Plugged	Plugging
	36555		30.530833	-98.143334	Domestic	No	Plugged	Plugging
	53570		30.557778	-98.150556	Domestic	Unknown	Cased	150' Buffer Zone
	68883		30.54	-98.163056	Test Well	No	Plugged	Plugging
	71725		30.539445	-98.175833	Domestic	Unknown	Open	150' Buffer Zone
	75185		30.558612	-98.152501	Test Well	Unknown	Open	150' Buffer Zone
	75202		30.566389	-98.152501	Test Well	Unknown	Back Filled	150' Buffer Zone
	91202		30.541945	-98.169444	Domestic	Unknown	Filter Packed	150' Buffer Zone
	91761		30.535834	-98.135	Domestic	Unknown	Back Filled	150' Buffer Zone
	95184		30.541667	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone
	95185		30.541111	-98.166667	Public Supply	Unknown	Back Filled	500' Buffer Zone
	95187		30.540834	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
	95189		30.541389	-98.166667	Test Well	Unknown	Back Filled	150' Buffer Zone
	96190		30.558612	-98.152778	Domestic	Unknown	Filter Packed	150' Buffer Zone
	100917		30.566667	-98.151112	Domestic	Unknown	Back Filled	150' Buffer Zone
	117468		30.557778	-98.149722	Domestic	Unknown	Cased	150' Buffer Zone
	131798		30.522778	-98.143334	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	132668		30.558612	-98.152778	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	136415		30.565556	-98.143334	Domestic	Unknown	Filter Packed	150' Buffer Zone
	136417	119952	30.565556	-98.143056	Domestic	No	Plugged	Plugging
	136421	119953	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136423	119954	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136424	119955	30.565556	-98.143334	Domestic	No	Plugged	Plugging
	136425	119956	30.563889	-98.141111	Domestic	No	Plugged	Plugging
	136428		30.570555	-98.152778	Domestic	Unknown	Cased	150' Buffer Zone
	141423		30.558612	-98.153056	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	143899		30.521389	-98.163889	Domestic	No	Open	150' Buffer Zone
	146352		30.531667	-98.153334	Test Well	Unknown	Unknown	150' Buffer Zone
	146353		30.542222	-98.142222	Test Well	Unknown	Unknown	150' Buffer Zone
	146354		30.552778	-98.136667	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	148034		30.565834	-98.140278	Domestic	Unknown	Cased	150' Buffer Zone
	148044		30.567222	-98.137222	Domestic	Unknown	Unknown	150' Buffer Zone
	148049		30.5675	-98.136945	Domestic	Unknown	Unknown	150' Buffer Zone
	149161		30.523889	-98.164167	Domestic	Unknown	Open	150' Buffer Zone
	150876		30.563334	-98.136667	Domestic	Unknown	Cased	150' Buffer Zone
	164322		30.566667	-98.1375	Domestic	Unknown	Unknown	150' Buffer Zone
	166481		30.562778	-98.146111	Domestic	Unknown	Filter Packed	150' Buffer Zone
	166483		30.562778	-98.146667	Domestic	Unknown	Filter Packed	150' Buffer Zone
	241041		30.567778	-98.139445	Domestic	Unknown	Open	150' Buffer Zone
	251911	130850	30.538889	-98.146111	Test Well	No	Plugged	Plugging
	251913	130851	30.539167	-98.146389	Test Well	No	Plugged	Plugging
	278990		30.557778	-98.155834	Domestic	No	Open	Plugging
	297443		30.524167	-98.134167	Irrigation	Unknown	Cased	150' Buffer Zone
	310107		30.524444	-98.134445	Domestic	Unknown	Cased	150' Buffer Zone
	343112		30.552223	-98.161389	Domestic	Unknown	Cased	150' Buffer Zone
	350486		30.551112	-98.161667	Domestic	Unknown	Unknown	150' Buffer Zone
	359280	93544	30.521111	-98.139445	Test Well	Unknown	Filter Packed	150' Buffer Zone

State Well Number	Well Report Tracking Number	Plugging Report Tracking Number	Latitude (DD)	Longitude (DD)	Well Use	Producing?	Open, cased, capped, or plugged?	Proposed BMP
	362791	151852	30.523889	-98.143611	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	362793		30.523889	-98.143611	Public Supply	Unknown	Filter Packed	500' Buffer Zone
	363928		30.546389	-98.130278	Domestic	Unknown	Cased	150' Buffer Zone
	380276		30.541389	-98.161389	Test Well	Unknown	Open	150' Buffer Zone
	384317		30.558889	-98.138334	Domestic	Unknown	Cased	150' Buffer Zone
	384318		30.558889	-98.138334	Domestic	Unknown	Cased	150' Buffer Zone
	393220		30.559723	-98.138056	Domestic	Unknown	Unknown	150' Buffer Zone
	398435		30.564167	-98.157501	Irrigation	Unknown	Cased	150' Buffer Zone
	404689		30.543334	-98.128611	Irrigation	Unknown	Cased	150' Buffer Zone
	404864		30.544167	-98.128889	Irrigation	Unknown	Cased	150' Buffer Zone
	404867		30.543334	-98.128333	Irrigation	No	Plugged	Plugging
	416407		30.541667	-98.130278	Domestic	Unknown	Cased	150' Buffer Zone
	425171		30.561389	-98.149167	Domestic	Unknown	Cased	150' Buffer Zone
	425172		30.565556	-98.151944	Domestic	Unknown	Cased	150' Buffer Zone
	425173		30.563333	-98.151389	Domestic	Unknown	Cased	150' Buffer Zone
	425174		30.56	-98.150556	Domestic	No	Back Filled	150' Buffer Zone
	425175		30.559722	-98.151944	Domestic	Unknown	Cased	150' Buffer Zone
	448187		30.543889	-98.131111	Domestic	Unknown	Cased	150' Buffer Zone
	457450		30.543333	-98.159722	Irrigation	Unknown	Cased	150' Buffer Zone
	534646		30.530833	-98.143056	Domestic	Unknown	Cased	150' Buffer Zone
	563153		30.513333	-98.171111	Unknown	Unknown	Unknown	150' Buffer Zone
	565204		30.513333	-98.170278	Unknown	Unknown	Unknown	150' Buffer Zone
	565218		30.561111	-98.157222	Domestic	Unknown	Cased	150' Buffer Zone
	572622		30.513333	-98.171389	Unknown	Unknown	Unknown	150' Buffer Zone
	575316		30.560361	-98.134469	Domestic	Unknown	Open	150' Buffer Zone
	592925	215127	30.565556	-98.134722	Domestic	No	Plugged	Plugging
	593620	227438	30.513333	-98.169444	Unknown	Unknown	Unknown	150' Buffer Zone
	631774		30.522222	-98.173333	Test Well	No	Plugged	Plugging
	634625		30.530833	-98.176111	Test Well	No	Back Filled	150' Buffer Zone
	634636		30.530278	-98.181389	Test Well	Unknown	Back Filled	150' Buffer Zone
	634743		30.550278	-98.133056	Unknown	Unknown	Unknown	150' Buffer Zone
	642402		30.52934	-98.18241	Test Well	Unknown	Unknown	150' Buffer Zone
	642746	55068	30.525833	-98.182222	Test Well	Yes	Filter Packed, Cased	150' Buffer Zone
			30.542778	-98.171389	Withdrawal of Water	No	Plugged	Plugging
		38418	30.567222	-98.136667	Withdrawal of Water	No	Plugged	Plugging

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	5731502
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.541945
Latitude (degrees minutes seconds)	30° 32' 31" N
Longitude (decimal degrees)	-98.169167
Longitude (degrees minutes seconds)	098° 10' 09" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	110AVFV - Alluvium and Fluvial Terrace Deposits
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	704
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	47
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	8/8/1976
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Camp of the Hills Nelson Lewis
Driller	Wilmer McDonald
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	G0270110A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	8/2/2000
Last Update Date	9/27/2010

Remarks Owners well #1. PWS ID #0270110A.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Plastic (PVC)			0	24
5	Screen				24	47

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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/gwdb rpt.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 (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-503**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

State Well Number	5731503
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.542778
Latitude (degrees minutes seconds)	30° 32' 34" N
Longitude (decimal degrees)	-98.171111
Longitude (degrees minutes seconds)	098° 10' 16" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	691
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #2)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/11/2016

Remarks

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-504**

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State Well Number	5731504
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.544445
Latitude (degrees minutes seconds)	30° 32' 40" N
Longitude (decimal degrees)	-98.17
Longitude (degrees minutes seconds)	098° 10' 12" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	682
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	140
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #3)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045C
Groundwater Conservation District Well Number	
Owner Well Number	3
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Abandoned PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731601
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.554723
Latitude (degrees minutes seconds)	30° 33' 17" N
Longitude (decimal degrees)	-98.164723
Longitude (degrees minutes seconds)	098° 09' 53" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	820
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #4)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045D
Groundwater Conservation District Well Number	
Owner Well Number	4
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Unused PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-602**

[GWDB Reports and Downloads](#)

Well Basic Details

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State Well Number	5731602
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.555834
Latitude (degrees minutes seconds)	30° 33' 21" N
Longitude (decimal degrees)	-98.164723
Longitude (degrees minutes seconds)	098° 09' 53" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	816
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	125
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #5)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045E
Groundwater Conservation District Well Number	
Owner Well Number	5
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/19/2016

Remarks Unused PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731801
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.519444
Latitude (degrees minutes seconds)	30° 31' 10" N
Longitude (decimal degrees)	-98.176667
Longitude (degrees minutes seconds)	098° 10' 36" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	775
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	620
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1956
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Unknown
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	Texas Water Development Board
Created Date	7/31/1985
Last Update Date	10/9/2009

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/11/1985 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Ellenburger Group

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		338	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		412.48	mg/L	
00910	CALCIUM (MG/L)		111	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		359	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		20	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.57	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.34		
00932	SODIUM, CALCULATED, PERCENT		8	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		15	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		790	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		18	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		411	mg/L	

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

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State Well Number	5731802
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.528889
Latitude (degrees minutes seconds)	30° 31' 44" N
Longitude (decimal degrees)	-98.167222
Longitude (degrees minutes seconds)	098° 10' 02" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	739
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	188
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/28/1984
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	GCD Current Site Visit
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Vista Del Rio Well #1
Driller	Western Water Wells
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	G0270082A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/29/1995
Last Update Date	7/11/2016

Remarks Reported yield 40 GPM. Cemented from 0 to 19 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	19
7	Open Hole				19	188

Well Tests - No Data

Lithology - No Data

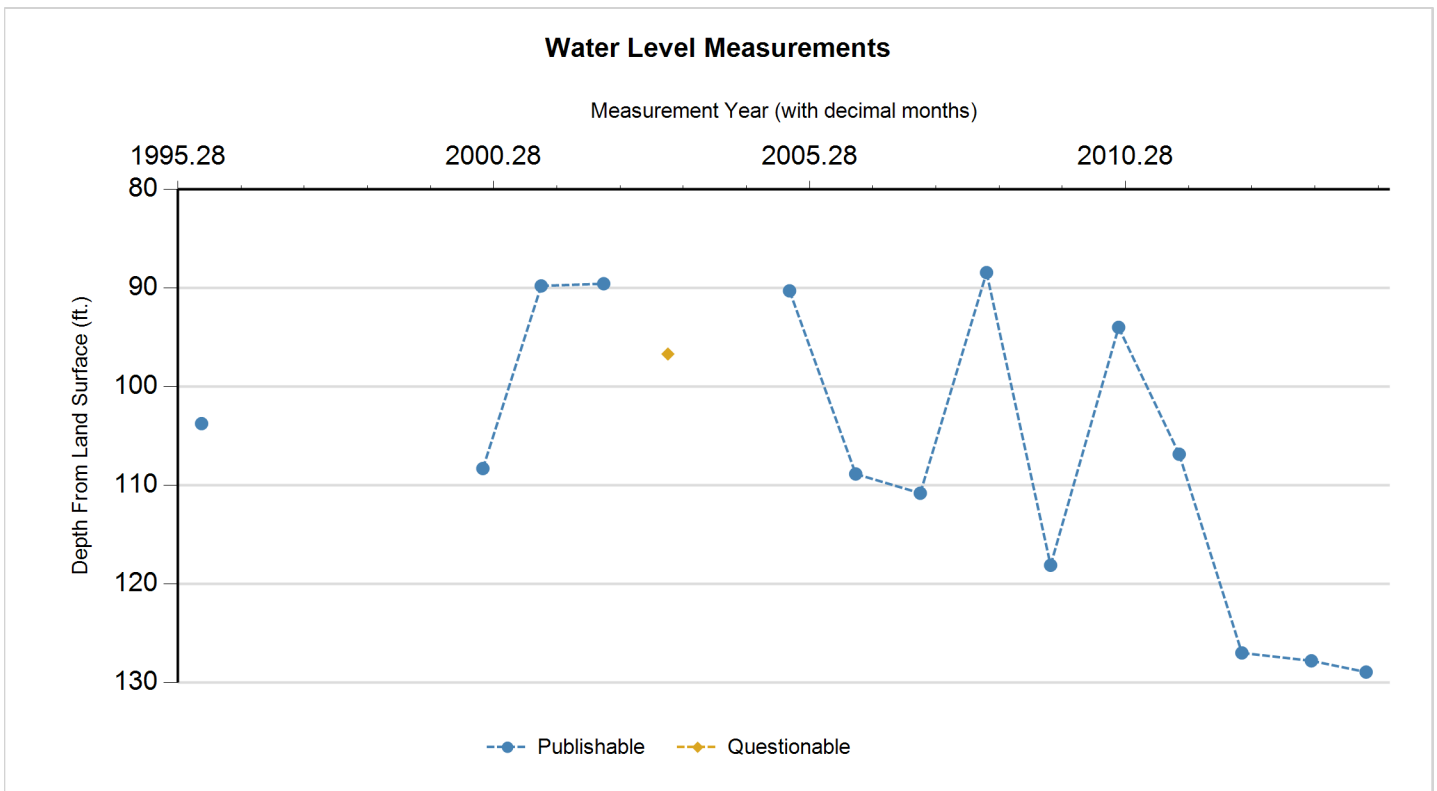
Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data



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	8/29/1995		103.75		635.25	1	Texas Water Development Board	Steel Tape		
X	1/11/1996					1	Texas Water Development Board		37	
X	11/22/1996					1	Texas Water Development Board		19	
X	1/28/1998					1	Texas Water Development Board		19	
X	2/24/1999					1	Texas Water Development Board		19	
P	2/9/2000		108.3		630.7	1	Texas Water Development Board	Steel Tape		
P	1/11/2001		89.8	(18.50)	649.2	1	Texas Water Development Board	Steel Tape		
P	1/7/2002		89.58	(0.22)	649.42	1	Texas Water Development Board	Steel Tape		
Q	1/13/2003		96.7	7.12	642.3	1	Texas Water Development Board	Steel Tape	4	
X	1/26/2004					1	Texas Water Development Board		19	
P	12/21/2004		90.3		648.7	1	Texas Water Development Board	Steel Tape		
P	1/3/2006		108.85	18.55	630.15	1	Texas Water Development Board	Steel Tape		
P	1/11/2007		110.8	1.95	628.2	1	Texas Water Development Board	Steel Tape		
P	1/29/2008		88.45	(22.35)	650.55	1	Groundwater Conservation District	Steel Tape		
P	2/4/2009		118.1	29.65	620.9	1	Groundwater Conservation District	Steel Tape		
P	3/2/2010		94	(24.10)	645	1	Groundwater Conservation District	Electric Line		
P	2/17/2011		106.85	12.85	632.15	1	Groundwater Conservation District	Electric Line		
P	2/14/2012		126.98	20.13	612.02	1	Groundwater Conservation District	Electric Line		

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-802

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	3/21/2013		127.78	0.80	611.22	1	Groundwater Conservation District	Electric Line		
P	2/2/2014		128.92	1.14	610.08	1	Groundwater Conservation District	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
4	Well pumped recently
19	Well pumping
37	No measurement due to admin decision

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-803**

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State Well Number	5731803
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.541111
Latitude (degrees minutes seconds)	30° 32' 28" N
Longitude (decimal degrees)	-98.172778
Longitude (degrees minutes seconds)	098° 10' 22" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	696
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	120
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	1/1/1972
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Smithwick Mills Water Serv. (Well #1)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270045A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/15/2010
Last Update Date	7/11/2016

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731804
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.528889
Latitude (degrees minutes seconds)	30° 31' 44" N
Longitude (decimal degrees)	-98.167222
Longitude (degrees minutes seconds)	098° 10' 02" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	320MBLF - Marble Falls Limestone
Aquifer	Marble Falls
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	739
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	190
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	2/25/1985
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Vista Del Rio Well #2
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270082B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/29/1995
Last Update Date	9/22/2010

Remarks Unable to locate drillers log. Owners well #2. PWS ID #0270082B.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731901
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.164445
Longitude (degrees minutes seconds)	098° 09' 52" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	780
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	525
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	12/13/1979
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Plugged or Destroyed
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Western Water Wells
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	7/30/1985
Last Update Date	10/9/2009

Remarks Destroyed. Encountered salt water at 370 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank	Plastic (PVC)			0	8
8	Open Hole				8	10
7	Open Hole				10	525

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731904
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.5225
Latitude (degrees minutes seconds)	30° 31' 21" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	72
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	10/10/2003
Drilling Method	Reverse Circulation
Borehole Completion	Gravel Pack w/Screen

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)	63
Power Type	Electric Motor
Annular Seal Method	Grout
Surface Completion	Surface Slab Installed
Owner	LCRA Spicewood Beach Well #4
Driller	Brien Water Wells
Other Data Available	Drillers Log
Well Report Tracking Number	131798
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011E
Groundwater Conservation District Well Number	
Owner Well Number	4
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	12/29/2008
Last Update Date	7/13/2016

Remarks Gravel packed from 43 to 72 ft. Measured yield 7.5 GPM with 13 feet drawdown after pumping 5 hours in 2003. Specific capacity 0.58 GPM/ft. Pumping level 40 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Plastic (PVC)			0	53
12	Screen	Stainless Steel			53	65
12	Blank	Plastic (PVC)			65	69

Well Tests

Test Date	Test Type	Yield (gallons per minute)	Drawdown (ft.)	Test Hours
2003-10-10	Unknown	7.5	13	5+

Lithology

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	47	Clay and Silt
47	64	Gravel with Hard Rock Shelf
64	70	Shale

Annular Seal Range - No Data

Borehole

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
28	0	64
20	64	72

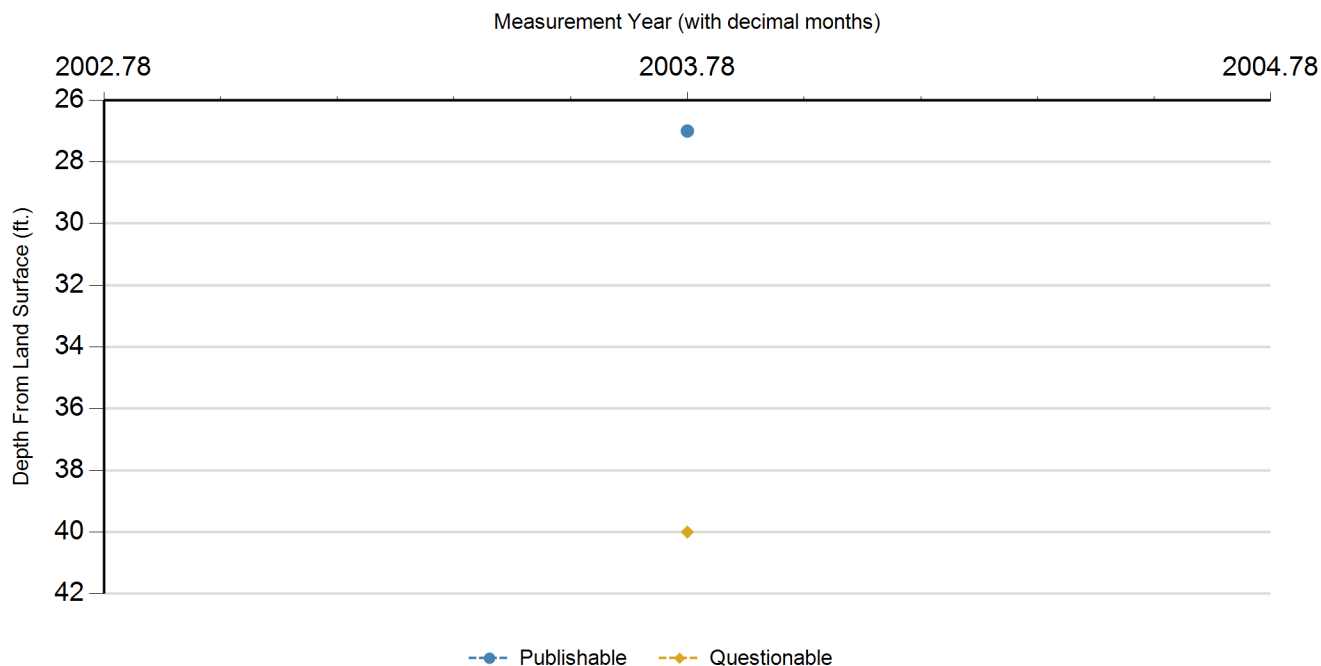
Plugged Back - No Data

Filter Pack

Filter Material	Top Depth (ft.)	Bottom Depth (ft.)	Size
Gravel	43	72	

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/16/2003		27		659	1	Registered Water Well Driller	Unknown		
Q	10/16/2003		40	13.00	646	2	Registered Water Well Driller	Unknown	2	

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
2	Pumping-level measurement

Water Quality Analysis - No Data Available

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State Well Number	5731905
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.144167
Longitude (degrees minutes seconds)	098° 08' 39" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	703
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	70
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	7/19/2016

Remarks	Capped PS well.
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731906
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522778
Latitude (degrees minutes seconds)	30° 31' 22" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	70
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #2
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	7/11/2016

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5731908
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522778
Latitude (degrees minutes seconds)	30° 31' 22" N
Longitude (decimal degrees)	-98.143334
Longitude (degrees minutes seconds)	098° 08' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	686
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	64
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	5/7/2002
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Spicewood Beach Well #3A
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270011D
Groundwater Conservation District Well Number	
Owner Well Number	3A
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/2/2010
Last Update Date	9/2/2010

Remarks Owners well #3A. PWS ID #0270011D.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-909**

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Well Basic Details

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State Well Number	5731909
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.5225
Latitude (degrees minutes seconds)	30° 31' 21" N
Longitude (decimal degrees)	-98.141667
Longitude (degrees minutes seconds)	098° 08' 30" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Third Party
Land Surface Elevation (feet above sea level)	699
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	60
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Eagle Bluff Subdivision (Well #1)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270063A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/16/2010
Last Update Date	7/11/2016

Remarks Aquifer assigned by TCWQ.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
57-31-910**

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State Well Number	5731910
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.522222
Latitude (degrees minutes seconds)	30° 31' 20" N
Longitude (decimal degrees)	-98.141945
Longitude (degrees minutes seconds)	098° 08' 31" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	Provided by Third Party
Land Surface Elevation (feet above sea level)	703
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	60
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	LCRA Eagle Bluff Subdivision (Well #2)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270063B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/16/2010
Last Update Date	7/11/2016

Remarks Aquifer assigned by TCEQ.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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State Well Number	5732401
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.556112
Latitude (degrees minutes seconds)	30° 33' 22" N
Longitude (decimal degrees)	-98.120278
Longitude (degrees minutes seconds)	098° 07' 13" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GLRSL - Glen Rose Limestone, Lower Member
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	763
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	45
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	5/21/1993
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Camp Balcones Springs Well #1
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0270109A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/27/2010
Last Update Date	9/27/2010

Remarks	Owners well #1. PWS ID #0270109A.
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #5575

Owner:	K. LINVEL BAKER	Owner Well #:	1
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 34' 01" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
---------------	----------	---------------	----------

Drilling Start Date: 2/19/2002 Drilling End Date: 2/19/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): 300

Distance to Septic Tank (ft.): No Data

Method of Verification: ESTIMATED

Surface Completion: Surface Sleeve Installed

Water Level:	95 ft. below land surface on 2002-02-20	Measurement Method:	Unknown
Packers:	POOR BOY 24'		
Type of Pump:	No Data		
Well Tests:	Estimated	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
25, 68, 145, 165	360 TDS, 14 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	4	YELLOW CALICHE
4	12	RED SHALE & CLAY
12	40	BROWN SANDSTONE
25	40	WATER 0.5 GPM
40	68	RED CLAY WITH WHITE LIMESTONE
68	74	RED & WHITE SANDSTONE
68	74	WATER 2.5 GPM
74	95	GRAY LIMESTONE WITH SHALE STREAKS
95	123	GRAY CLAY & SHALE
123	134	RED CLAY
134	175	WHITE, RED & BROWN LIMESTONE
145	165	WATER 2 GPM
165	175	WATER TRACE
175	205	GRAY SHALE & CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #5580

Owner:	K. LINVEL BAKER	Owner Well #:	2
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 33' 58" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 2/20/2002 Drilling End Date: 2/20/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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:	104 ft. below land surface on 2002-02-20	Measurement Method:	Unknown
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Packers: POOR BOY 24'

Type of Pump: No Data

Well Tests: Estimated Yield: 5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
26, 49, 65, 123, 158	340 TDS, 13 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**

**DRAWER 217
HYE, TX 78635**

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	13	YELLOW CALICHE
13	26	RED SHALE
26	36	BROWN SAND
26	36	WATER 1.5 GPM
36	49	RED CLAY & SHALE
49	65	WATER 1 GPM
49	70	WHITE & RED SANDSTONE
65	70	WATER 1 GPM
70	75	YELLOW SHALE
75	94	GRAY LIMESTONE
94	110	GRAY CLAY & SHALE
110	123	BROWN CLAY
123	139	SANDY YELLOW, WHITE & RED LIMESTONE
123	139	WATER 1 GPM
139	152	RED CLAY
152	174	SANDY WHITE, YELLOW & RED LIMESTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

158	174	WATER 0.5 GPM
174	182	BROWN SHALE
182	205	GRAY SHALE

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #5581

Owner:	OLLIE BAKER	Owner Well #:	1
Address:	300 CR 344 MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	300 CR 344 MARBLE FALLS, TX 78654	Latitude:	30° 33' 18" N
Well County:	Burnet	Longitude:	098° 09' 13" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/20/2002** Drilling End Date: **2/20/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	165

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	30	2

Seal Method: **GRAVITY CEMENTED**

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

Sealed By: **Driller**

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: **124 ft. below land surface on 2002-02-20** Measurement Method: **Unknown**

Packers: **POOR BOY 30'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39, 88, 105	460 TDS, 17 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	39	RED CLAY
39	45	WATER 1 GPM
39	58	GRAY SANDSTONE
58	88	GRAY CLAY
88	105	WATER TRACE
88	122	RED, WHITE & YELLOW LIMESTONE
105	122	WATER TRACE
122	129	YELLOW SHALE & LIMESTONE
129	165	GRAY SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 40 .265
5	NEW	PLASTIC SLOTTED	40 130 .265
5	NEW	PLASTIC SOLID	130 165 .265

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P.O. Box 12157
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #19060

Owner: **LEONARD HILT**

Owner Well #: **001**

Address: **1901 RED FOX RD.
AUSTIN, TX 78734**

Grid #: **57-31-9**

Well Location: **LOT 40 CHIMNEY COVES
MARBLE FALLS, TX**

Latitude: **30° 32' 23" N**

Longitude: **098° 08' 02" W**

Well County: **Williamson**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #107449

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/5/2003**

Drilling End Date: **3/5/2003**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9.875	0	13
8	13	250

Drilling Method: **Air Rotary**

Borehole Completion:

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Unknown**

Water Level: **0 ft. below land surface on No Data**

Measurement Method: **Unknown**

Packers: **NONE**

Type of Pump: **NONE**

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

Well Tests: **Jetted** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
0 0 0 2 CEM 2		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	40	RED SAND
40	115	GREY LIMESTONE
115	250	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
NONE			

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STATE OF TEXAS WELL REPORT for Tracking #28663

Owner: **Richard Giesecke**

Owner Well #: **3**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1.1 miles down Double Creek Road
from RR 1431
Marble Falls, TX 78654**

Latitude: **30° 34' 16" N**

Longitude: **098° 09' 06" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/4/2003**

Drilling End Date: **11/4/2003**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.62	0	20
6.75	20	204

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	33	2 - cement

Seal Method: **gravity cemented**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **300**

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **30 ft. below land surface on 2003-11-04**

Measurement Method: **Unknown**

Packers: **poor boy 33'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 16 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
30,120, 140, 160	n/a

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: **L & L Drilling Co.****Drawer 217
Hye, TX 78635**Driller Name: **Gregory A. Smith**License Number: **1595**Apprentice Name: **Lynette Smith**Apprentice Number: **WWDAPP00001
264**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	6	brown clay
6	17	yellow caliche
17	36	brown & yellow sand
30	40	water 10 gpm
36	40	white limestone
40	51	red clay
51	69	gray & red clay
69	75	white & yellow sandstone
75	96	gray sandy limestone
96	112	gray clay & shale
112	120	red clay
120	128	white & red sandy limestone
120	140	water 1 gpm
128	179	white & brown limestone
140	160	water 2 gpm
160	180	water 3 gpm

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 -- 34 .265
5	new	plastic slotted	34 -- 44 .265
5	new	plastic solid	44 -- 74 .265
5	new	plastic slotted	74 -- 104 .265
5	new	plastic solid	104 -- 124 .265
5	new	plastic slotted	124 -- 184 .265
5	new	plastic solid	184 -- 204 .265

179	185	brown & yellow shale
185	204	gray shale

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

STATE OF TEXAS WELL REPORT for Tracking #36552

Owner: **MARION SHIPMAN #1** Owner Well #: **01**
Address: **PO BOX 1119** Grid #: **57-31-9**
CEDAR PARK, TX 78630
Well Location: **CHIMNEY COVE ESTATES** Latitude: **30° 32' 14" N**
SMITHWICK, TX Longitude: **098° 08' 10" W**
Well County: **Burnet** Elevation: **707 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #109199

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/17/2004** Drilling End Date: **3/17/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	190

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

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

Sealed By: **GREG SVETLIK**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NONE**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	0 - 2 CEMENT		
	2 - 190 CUTTINGS		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	TOPSOIL
1	20	RED CLAY
20	25	FLINT W/ CLAY
25	35	BROWN SAND & GRAVEL
35	45	BROWN / GREY SHALE
45	189	SANDY GREY SHALE
189	190	DOLOMITE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
NONE			

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #36555

Owner: **MARION SHIPMAN #2** Owner Well #: **02**
Address: **PO BOX 1119** Grid #: **57-31-9**
CEDAR PARK, TX 78630
Well Location: **CHIMNEY COVE ESTATES** Latitude: **30° 31' 51" N**
SMITHWICK, TX Longitude: **098° 08' 36" W**
Well County: **Burnet** Elevation: **717 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #109200

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/18/2004** Drilling End Date: **3/18/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	50

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **GREG SVETLIK**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NONE**

Type of Pump: **No Data**

Well Tests: **Unknown** Yield: **0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	0 - 3 CEMENT		
	3 - 50 CUTTINGS		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	SANDY LOAM
5	20	RED CLAY
20	28	GRAVEL BAR
28	33	SAND BAR
33	50	GRAVEL BAR

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
NONE			

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

STATE OF TEXAS WELL REPORT for Tracking #68883

Owner: **PHILLIP JOSEPH**

Owner Well #: **No Data**

Address: **2904 Richard Lane
Austin, TX 78703**

Grid #: **57-31-9**

Well Location: **Smithwick (near Narrows)
Marble Falls, TX 78654**

Latitude: **30° 32' 24" N**

Longitude: **098° 09' 47" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #112663

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **9/22/2005**

Drilling End Date: **9/22/2005**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	15
6	15	300

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **N/A**

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

Sealed By: **N/A**

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

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

Method of Verification: **Owner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Western Water Wells**
500 Southland Drive
Burnet, TX 78611

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top soil
1	90	Caliche & gravel & clay
90	300	Crystal lime

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N/A			

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STATE OF TEXAS WELL REPORT for Tracking #71725

Owner:	KENNY LEWIS #5	Owner Well #:	No Data
Address:	PO BOX 1090 LIBERTY HILL, TX 78642	Grid #:	57-31-8
Well Location:	END OF CR 343A MARBLE FALLS, TX 78654	Latitude:	30° 32' 22" N
Well County:	Burnet	Longitude:	098° 10' 33" W
		Elevation:	1003 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 10/4/2005 Drilling End Date: 10/5/2005

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	90

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	2	2 CEMENT
	2	10	2 HOLE PLUG

Seal Method: SLURRIED & POURED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level:	26 ft. below land surface on 2005-10-06	Measurement Method:	Unknown
Packers:	NEOPRENE 10 NEOPRENE 40		
Type of Pump:	Submersible	Pump Depth (ft.):	60
Well Tests:	Jetted	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	40	BROWN CLAY
40	60	SAND
60	90	SANDSTONE W/B 5 GPM

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 65
4.5	NEW	SCREEN MFG.	65 - 85 .50
4.5	NEW	PLASTIC	85 - 90

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 #75185

Owner: **Waterford Club Development**

Owner Well #: **1**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 09" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **8/15/2005**

Drilling End Date: **8/15/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15-17 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
29 - 91	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **Amended 2/2/06 Ref.#2900**

Report Amended on by Request #2900

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Sand
2	29	Tan Sandstone
29	42	Tan Gravel H2O
42	60	Red Clay
60	70	Sandy Tan Clay
70	83	Grey Sandstone
83	91	Tan-Grey Limestone
91	120	Grey Clay
120	150	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #75202

Owner: **Waterford Club Development**

Owner Well #: **2**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 33' 59" N**

Longitude: **098° 09' 09" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **8/16/2005**

Drilling End Date: **8/16/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	130

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole; Back Filled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
80 - 121	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **Dry Well - Back Filled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	12	Sand with Clay
12	27	Tan Clay
27	30	Tan Gravel-Sand
30	35	Grey Sandstone
35	50	Grey-Tan Limestone
50	76	Grey Clay
76	80	Red Sandstone
80	121	Gravel
121	130	Tan Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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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 #91202

Owner: **Linda Lewis**

Owner Well #: **1**

Address: **5500 Hwy 281 N
Marble Falls, TX 78654**

Grid #: **57-31-5**

Well Location: **1542 CR 344
Marble Falls, TX 78654**

Latitude: **30° 32' 31" N**

Longitude: **098° 10' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/29/2006**

Drilling End Date: **7/30/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	58

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	10	58	Gravel	3/8 Pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	3 of Portland

Seal Method: **Slurry**

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

Sealed By: **Apex Drilling, Inc.**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
44-48	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Micheal G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	44	Sandy Loam Clay
44	48	Gravel
48	58	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2 to 38' Sch40
4.5" (5" OD)	New	Slotted PVC	38' to 58' .035

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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 #91761

Owner: **Marion Shipman**

Owner Well #: **No Data**

Address: **PO Box 1119
Cedar Park, TX 78630**

Grid #: **57-31-9**

Well Location: **CR 346
Bertram, TX 78605**

Latitude: **30° 32' 09" N**

Longitude: **098° 08' 06" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/20/2006**

Drilling End Date: **6/20/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	62

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **Backfilled w/ 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	42	Sandy Loam
42	55	Tan Clay
55	62	Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #95184

Owner: **Lower Colorado River Authority**

Owner Well #: **1**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-5**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 30" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **6/13/2006**

Drilling End Date: **6/13/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	45

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
13-24	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **Backfilled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	13	Sandy Loam-Clay
13	24	Gravel-Dry
24	32	Tan Clay
32	45	Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #95185

Owner: **Lower Colorado River Authority**

Owner Well #: **2**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-8**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 28" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **6/13/2006**

Drilling End Date: **6/13/2006**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9.875	0	77

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
30	77	Gravel	3/8 Pea Gr

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	30	7 of Portland

Seal Method: **Pressure Trimmie**

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

Sealed By: **Apex Drilling, Inc**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 6 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
46-49	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments:
Amended 5/2/08 Ref.#5886
Amended 6/25/08 Ref.#6073

Report Amended on by Request #5886

Report Amended on by Request #6073

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	9	Loam-Clay
9	15	Sandy-Loam
15	46	Sand-Clay
46	77	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6"	New	PVC	+2' to 40' SDR17
6"	New	Slotted	40' to 50' Johnsons Screen .035
6"	New	PVC	50' to 70' SDR17

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 #95189

Owner: **Lower Colorado River Authority**

Owner Well #: **4**

Address: **PO Box 220
Austin, TX 78767**

Grid #: **57-31-8**

Well Location: **Smithwick Mills
Marble Falls, TX 78654**

Latitude: **30° 32' 29" N**

Longitude: **098° 10' 00" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **6/20/2006**

Drilling End Date: **6/20/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	48

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **Backfilled with 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	22	Clay-Loam
22	47	Loam
47	48	Sandy Clay
48	62	Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #96190

Owner: **Waterford Club Development**

Owner Well #: **No Data**

Address: **10516 FM 1431 E.
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/16/2006**

Drilling End Date: **9/16/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	150

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	20	150	Gravel	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 17 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
120-146	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	Sand
5	25	Tan Sandstone
25	43	Gravel
43	60	Red Clay
60	70	Tan Sandstone
70	83	Grey Sandstone
83	91	Tan Grey Limestone
91	120	Grey Clay
120	146	Gravel
146	150	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 120' SDR17
4.5" (5" OD)	New	Slotted PVC	120' to 150' .035

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #100917

Owner: **Waterford Club Development**

Owner Well #: **1**

Address: **10516 FM 1431 E
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431 E.
Marble Falls, TX 78654**

Latitude: **30° 34' 00" N**

Longitude: **098° 09' 04" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/26/2006**

Drilling End Date: **11/26/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	10
	6	10	155

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
95 - 120	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J. Johnson** License Number: **54989**

Comments: **Backfilled with 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	10	Tan Clay
10	25	Red Clay
25	32	White Limestone
32	53	Tan-Grey Limestone
53	76	Grey Clay
76	95	Red Sandstone with Clay
95	120	Gravel
120	135	Tan Clay
135	155	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
N/A			

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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 #117468

Owner:	Sam Cox	Owner Well #:	No Data
Address:	10507 E FM1431 Marble Falls, TX 78654	Grid #:	57-31-6
Well Location:	10507 E FM1431 Marble Falls, TX 78654	Latitude:	30° 33' 28" N
Well County:	Burnet	Longitude:	098° 08' 59" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/10/2007** Drilling End Date: **4/10/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	157

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Neoprene 39', 30', 20'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 10 - 11 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39-137	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	Sand
12	18	Tan Sandstone
18	20	Tan Clay
20	30	Red Clay
30	39	Red Clay-White Limestone
39	45	Sand
45	50	White-Red Sandstone
50	74	Grey Sandstone
74	99	Clay
99	107	Red Sandstone
107	137	Gravel
137	157	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 57' Sch40
4.5" (5" OD)	New	Slotted PVC	57' to 77' .035
4.5" (5" OD)	New	PVC	77' to 117' Sch40
4.5" (5" OD)	New	Slotted PVC	117' to 137' .035
4.5" (5" OD)	New	PVC	137' to 157' Sch40

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STATE OF TEXAS WELL REPORT for Tracking #131798

Owner: **LCRA**

Owner Well #: **Well #4**

Address: **P. O. Box 220
Austin, TX 78767**

Grid #: **57-31-9**

Well Location: **Spicewood Beach, TX**

Latitude: **30° 31' 22" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **10/9/2003**

Drilling End Date: **10/10/2003**

Plans Approved by TCEQ - **NO**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
28	0	64
20	64	72

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
43	72	Gravel	

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	43	140

Seal Method: **Grout**

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

Sealed By: **Driller**

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **27 ft. below land surface on 2003-10-16**

Measurement Method: **Unknown**

Packers: **n/a**

Type of Pump: **Submersible**

Pump Depth (ft.): **63**

Well Tests: **Unknown**

Yield: 7.5 GPM with 13 ft. drawdown after 5+ hours

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **Yes**

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: **Brien Water Wells**
Rt. 1, Box 702
Hearne, TX 77859

Driller Name: **Jeff Brien**

License Number: **4470**

Comments: **\$dfs**
Assigned SWN 57-31-904 by TWDB on 12/29/08.

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	47	Clay and Silt
47	64	Gravel with Hard Rock Shelf
64	70	Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
12	New	Certalok PVC	+2 53
12	New	S.S. Rodbase Scrn.	53 65 .125
12	New	S.S. Blank	65 69

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Texas Department of Licensing and Regulation
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STATE OF TEXAS WELL REPORT for Tracking #136415

Owner: **Smithwick Cemetery Association**

Owner Well #: **1**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	197
	6.75	197	202

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	57	197	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	57	20 cement

Seal Method: **trimmie pipe pressure
cemented**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

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

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

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **40 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
62	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	15	yellow sand
15	22	red shale
22	29	yellow sand & gravel
29	58	red clay
58	67	brown sand
62	82	water 2 gpm
67	94	gray limestone
94	132	gray clay
132	151	brown gravel & red shale
151	189	yellow shale
189	202	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 60 0.265
5	new	plastic slotted	60 - 157 0.265
5	new	plastic solid	157 - 197 0.265

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P.O. Box 12157
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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #136417

Owner: **Smithwick Cemetery Association**

Owner Well #: **2**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 35" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119952

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/18/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **70**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1.5	brown topsoil
1.5	10	yellow caliche
10	25	yellow sand & gravel
25	54	red clay
54	65	brown sand
65	69	white & gray limestone
69	89	gray limestone
89	113	gray clay
113	147	brown gravel & red shale
147	162	yellow shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
none			

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STATE OF TEXAS WELL REPORT for Tracking #136421

Owner: **Smithwick Cemetery Association**

Owner Well #: **3**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119953

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/18/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **80**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	0.5	brown topsoil
0.5	5	yellow caliche
5	10	yellow sand & gravel
10	18	red shale
18	27	yellow sand & gravel
27	54	red clay
54	68	gray limestone
68	117	gray clay
117	145	brown gravel & red shale
145	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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

STATE OF TEXAS WELL REPORT for Tracking #136423

Owner: **Smithwick Cemetery Association**

Owner Well #: **4**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119954

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **80**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	13	red shale
13	25	yellow sand & gravel
25	51	red clay
51	68	brown sand
68	75	white & red limestone
75	96	gray limestone
96	118	gray clay
118	150	brown gravel & red shale
150	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #136424

Owner: **Smithwick Cemetery Association**

Owner Well #: **5**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119955

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **90**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	10	yellow caliche
10	18	yellow sand & gravel
18	53	red shale & clay
53	67	brown sand
67	95	gray limestone
95	117	gray clay
117	151	brown sand & shale
151	162	yellow shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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 #136425

Owner: **Smithwick Cemetery Association**

Owner Well #: **6**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 50" N**

Longitude: **098° 08' 28" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #119956

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/19/2008**

Drilling End Date: **2/19/2008**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
6.75	0	162

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **90**

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Plug Information:

<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
no casing 0 - 10 cement 2 sacks		

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	2	yellow caliche
2	5	red clay
5	17	yellow, white & gray sand
17	38	gray limestone
38	66	gray clay
66	79	red clay
79	98	brown gravel
98	155	yellow shale
155	162	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
none			

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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 #136428

Owner: **Richard Giesecke**

Owner Well #: **1**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **Double Creek Road
Marble Falls, TX 78654**

Latitude: **30° 34' 14" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/21/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	183

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	23	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **200**

Sealed By: **Driller**

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

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

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **19 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **poor boy 23'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 12 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
16, 35, 53, 100, 120	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	4	brown clay
4	19	brown sand
16	19	water 0.5 gpm
19	34	red clay
34	55	white & red limestone
35	36	water 2 gpm
53	54	water 5 gpm
55	77	gray & white limestone
77	95	gray clay
95	97	red clay
97	159	white, yellow & brown limestone
100	120	water 2 gpm
120	140	water 3 gpm
159	165	yellow shale
165	183	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 33 0.265
5	new	plastic slotted	33 - 93 0.265
5	new	plastic solid	93 - 103 0.265
5	new	plastic slotted	103 - 163 0.265
5	new	plastic solid	163 - 183 0.265

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

STATE OF TEXAS WELL REPORT for Tracking #141423

Owner: **Waterford Club Development**

Owner Well #: **2**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 31" N**

Longitude: **098° 09' 11" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **3/26/2008**

Drilling End Date: **3/28/2008**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	156

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
108	156	Gravel	3/8" Pea

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	108	19 of Portland

Seal Method: **Pressure Tremmie**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

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

Water Quality:

Strata Depth (ft.)	Water Type
108-148	Trinity

Chemical Analysis Made: **Yes**

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: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	8	Tan Limestone
8	16	TAn Sandstone
16	23	Tan Sand-Limestone
23	35	Gravel
35	40	Red Sandstone
40	43	Tan Sand
43	61	Red Clay
61	75	Tan Sandstone
75	108	Grey Sandstone
108	148	Gravel H2O
148	156	Tan-Blue Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 108' SDR17
4.5" (5" OD)	New	Slotted PVC	108' to 148' .035
4.5" (5" OD)	New	PVC	148' to 156' SDR17

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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 #143899

Owner:	DOUG ENGLISH	Owner Well #:	No Data
Address:	4306 BENEDICT LANE AUSTIN, TX 78746	Grid #:	57-31-9
Well Location:	2300 CR 41100 SPICEWOOD, TX 78669	Latitude:	30° 31' 17" N
		Longitude:	098° 09' 50" W
Well County:	Burnet	Elevation:	787 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/8/2008**

Drilling End Date: **5/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	12
	6.75	12	395

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	16	30

Seal Method: **Unknown**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NEOPRENE 16**

Type of Pump: **DID NOT SET**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

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

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

Company Information: **BEE CAVE DRILLING INC**
185 ANGELFIRE DR
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **WELL WAS PLUGGED BY CUSTOMER**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	TOPSOIL
3	14	RED SANDSTONE W/ GRAVEL
14	65	ELLENBERGER ROCK
65	68	TAN CLAY
68	95	ELLENBERGER ROCK
95	97	CAVE
97	105	ELLENBERGER ROCK
105	106	ROCK W/ ORANGE CLAY
106	395	BLACK ROCK W/GREY ROCK

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8 NEW PLASTIC 0-16			

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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 #146352

Owner: **Waterford Club Development**

Owner Well #: **11**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-9**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 31' 54" N**

Longitude: **098° 09' 12" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **5/29/2008**

Drilling End Date: **5/29/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	30

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	26	Gravel
26	30	Tan Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #146353

Owner: **Waterford Club Development**

Owner Well #: **12**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 32' 32" N**

Longitude: **098° 08' 32" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **5/30/2008**

Drilling End Date: **5/30/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	Gravel
12	17	Red Clay
17	20	Gravel
20	25	Clay
25	26	Gravel
26	30	Clay
30	31	Gravel
31	41	Tan Clay
41	50	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #146354

Owner: **Waterford Club Development**

Owner Well #: **13**

Address: **10516 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10516 FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 10" N**

Longitude: **098° 08' 12" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **6/4/2008**

Drilling End Date: **6/4/2008**

Plans Approved by TCEQ - **YES**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.75	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
15	50	Gravel	3/8" Pea

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	4 of Portland

Seal Method: **Pressure Tremmie**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 52 GPM with 10 ft. drawdown after 36 hours**

Water Quality:

Strata Depth (ft.)	Water Type
15-25	Trinity

Chemical Analysis Made: **Yes**

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: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	15	Sandy Loam
15	25	Gravel
25	37	Tan Clay
37	50	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 15' SDR17
4.5" (5" OD)	New	Slotted PVC	15' to 25' .035
4.5" (5" OD)	New	PVC	25' to 50' SDR17

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 #148034

Owner: **James Frey**

Owner Well #: **No Data**

Address: **904 Lund St
Austin, TX 78704**

Grid #: **57-31-6**

Well Location: **11332 E Hwy 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 57" N**

Longitude: **098° 08' 25" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/12/2008**

Drilling End Date: **3/12/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 10**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
10-110	Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Apex Drilling, Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	8	Black Clay
8	37	Tan Sand Sandstone H2O
37	53	White Limestone
53	82	Red Clay
82	110	Gravel Sand H2O
110	140	Tan Clay Blue Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5" (5" OD)	New	PVC	+ 2' to 10' SDR17
4.5" (5" OD)	New	Slotted PVC	10' to 50' .035
4.5" (5" OD)	New	PVC	50' to 90' SDR17
4.5" (5" OD)	New	Slotted PVC	90' to 110' .035
4.5" (5" OD)	New	PVC	110' to 130' SDR17

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Texas Department of Licensing and Regulation
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #148049

Owner:	Ned Ross	Owner Well #:	4
Address:	PO Box 93188 Austin, TX 78709	Grid #:	57-31-6
Well Location:	11535 E FM 1431 Marble Falls, TX 78654	Latitude:	30° 34' 03" N
		Longitude:	098° 08' 13" W
Well County:	Burnet	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **7/20/2008** Drilling End Date: **7/20/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	200

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
160-200	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Andrew J Johnson** License Number: **54989**

Comments: **Backfilled w/ 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan Limestone
15	22	Grey Clay
22	40	Red Sandstone
40	75	Tan Limestone
75	85	Sand
85	105	Red Sandstone
105	160	Grey Limestone w/ Clay
160	200	Red Sandstone w/ Gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #164322

Owner:	Ned Ross	Owner Well #:	No Data
Address:	P O Box 93188 Austin, TX 78709	Grid #:	57-31-6
Well Location:	11535 E FM 1431 Marble Falls, TX 78654	Latitude:	30° 34' 00" N
		Longitude:	098° 08' 15" W
Well County:	Burnet	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/9/2008** Drilling End Date: **11/9/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	185

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
130-182	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Dry Well backfilled including 2' cement cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	10	Tan Limestone
10	18	Sand
18	33	Tan and White Limestone
33	56	Sand
56	79	Red Clay
79	88	Tan Limestone
88	90	Gray Sand
90	112	Gray Clay w/ Limestone
112	130	Gray Clay
130	136	Red Sandstone

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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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 #166481

Owner: **Smithwick Church of Christ**

Owner Well #: **No Data**

Address: **c/o 300 CR 344
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **FM 1431 East
Marble Falls, TX 78654**

Latitude: **30° 33' 46" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/17/2008**

Drilling End Date: **12/17/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	157

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	50	157	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	60	12 cement

Seal Method: **tremi pipe pressure
cemented**

Distance to Property Line (ft.): **90**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **200**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **54 ft. below land surface on 2008-12-18**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0.5 - 1 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
60	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	brown topsoil
2	4	white limestone
4	7	yellow caliche
7	48	gray shale & clay
48	71	red shale & clay
60	97	water 0.5 gpm
71	97	brown, red & white gravel
97	157	oily gray shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
5	new	plastic solid	0 - 60 0.265
5	new	plastic slotted	60 - 100 0.265
5	new	plastic solid	100 - 157 0.265

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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 #166483

Owner: **Smithwick Church of Christ**

Owner Well #: **No Data**

Address: **c/o 300 CR 344
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **FM 1431 East
Marble Falls, TX 78654**

Latitude: **30° 33' 46" N**

Longitude: **098° 08' 48" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/17/2008**

Drilling End Date: **12/17/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	158

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	70	158	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	70	18 cement

Seal Method: **tremi pipe pressure
cemented**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **250**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **54 ft. below land surface on 2008-12-18**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
70	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	brown topsoil
2	4	white limestone
4	9	yellow caliche
9	45	gray shale & clay
45	49	brown shale
49	53	brown limestone
53	70	red shale & clay
70	85	brown, red & white limestone
70	85	water 1 gpm
85	98	yellow shale
98	158	oily gray shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
5	new	plastic solid	0 - 70 0.265
5	new	plastic slotted	70 - 85 0.265
5	new	plastic solid	85 - 158 0.265

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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 #241041

Owner: **Travis Spaulding**

Owner Well #: **No Data**

Address: **P.O. Box 458
Spicewood, TX 78669**

Grid #: **57-31-6**

Well Location: **.6 mi. E of Smithwick Cemetery on FM
1431; .2 mi. W by creek
TX**

Latitude: **30° 34' 04" N**

Longitude: **098° 08' 22" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/12/2011**

Drilling End Date: **1/12/2011**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	40
6.75	40	41
6	41	70

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	3	1 Cement
3	40	3 Benseal

Seal Method: **Pressure**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **39 ft. below land surface on 2011-01-12**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **60**

Well Tests: **Jetted**

Yield: 3 GPM

Water Quality:

Strata Depth (ft.)	Water Type
56 - 59	good (680 ppmTDS)

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: **Virdell Drilling Inc.**
111 E. Grayson St.
Llano, TX 78643

Driller Name: **Taylor Virdell Jr.**

License Number: **1900**

Apprentice Name: **James Caleb Virdell**

Apprentice Number: **57668**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	10	Brown Clay & Gravel
10	13	Gravel & Sand
13	21	Red Clay
21	37	Brown Clay
37	60	Brown & Gray Limestone
60	68	Gray Limestone
68	70	Gray Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" N PVC	+2	- 41 sch 40	

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #251911

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 20" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #130850

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **3/15/2006**

Drilling End Date: **3/15/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	40

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data on 2006-03-15**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	2 40 Drill Cuttings		
	0 2 1		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	3	Top Soil and Gravel
3	18	Red Loam
18	40	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #251913

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 21" N**

Longitude: **098° 08' 47" W**

Well County: **Burnet**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #130851

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **3/15/2006**

Drilling End Date: **3/15/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	165

Drilling Method: **Air Hammer**

Borehole Completion: **Plugged**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data on 2006-03-15**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	2 165 Drill Cuttings		
	0 2 1		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: **\$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil and Gravel
3	51	Yellow Shale
51	165	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #278990

Owner: **Sergio Perez**

Owner Well #: **No Data**

Address: **1312 Green Valley Lake
Granite Shoals, TX 78654**

Grid #: **57-31-6**

Well Location: **1312 Green Valley Lake
Granite Shoals, TX 78654**

Latitude: **30° 33' 28" N**

Longitude: **098° 09' 21" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/26/2012**

Drilling End Date: **1/26/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 95, 90, 20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1/2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
95-123	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker, P. G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	14	Sand/Clay
14	16	Grey Clay
16	55	Red Clay
55	71	Grey/Tan Limestone
71	95	Grey Clay
95	100	Red Sandstone
100	123	Gravel
123	140	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5" OD)	New PVC	+ 2' to 103' SDR17
4.5"	(5" OD)	New Slotted PVC	103' to 123' .035

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #297443

Owner:	Cary Martin	Owner Well #:	No Data
Address:	115 Glendale Road Spicewood, TX 78669	Grid #:	57-31-9
Well Location:	115 Glendale Road Spicewood, TX 78669	Latitude:	30° 31' 27" N
Well County:	Burnet	Longitude:	098° 08' 03" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **7/1/2012**

Drilling End Date: **7/1/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.5	20	260

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 100', 90', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
108-118	Marble Falls

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-002		Gravel
002-087		Gray/Black Limestone
087-186		Tan Limestone
186-260		Black Limestone
**H2O at 108, 115, 118		

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5" OD)	New PVC	+2' to 100' SDR17
4.5"	(5" OD)	New Slotted PVC	100' to 120' .035
4.5"	(5" OD)	New PVC	120' to 160' SDR17
4.5"	(5" OD)	New Slotted PVC	160' to 180' .035
4.5"	(5" OD)	New PVC	180' to 240' SDR17
4.5"	(5" OD)	New Slotted PVC	240' to 260' .035

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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 #310107

Owner: **DON & NANCY WEAVER/STROBEL
BUILDER**

Owner Well #: **No Data**

Address: **2217 POTOMAC, UNIT D
HOUSTON, TX 77057**

Grid #: **57-31-9**

Well Location: **125 GLENDALE RD.
SPICEWOOD, TX 78669**

Latitude: **30° 31' 28" N**

Longitude: **098° 08' 04" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/2/2012**

Drilling End Date: **5/3/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	40
	6.125	40	165

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	1	50	1 CEMENT
	1	50	5 GROUT

Seal Method: **GRAVITY POWERED**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed**

Water Level: **30 ft. below land surface on 2012-05-03**

Measurement Method: **Unknown**

Packers: **BURLAP & PLASTIC 105, 85, 50**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 5-7 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80	TRINITY

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **CENTRAL TEXAS DRILLING, INC.**
2520 HWY. 290 WEST
DRIPPING SPRINGS, TX 78620

Driller Name: **FRANK GLASS**

License Number: **1313**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-10		RED SANDY LIME
10-35		SAND & GRAVEL
35-80		GRAY CLAY
80-160		BROWN W/BLACK STREAKS OF
		GRANITE
160-165		BLACK GRANITE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 1/4	N	PLASTIC SCH. 40	0 TO 40 SCH. 40
5	N	SDR17 -2	TO 125
5	N	SDR17 SCREEN	125 TO 165 .032

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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 #343112

Owner: **Victor Rosales**

Owner Well #: **No Data**

Address: **1518 W Gardiana
McAllen, TX 78501**

Grid #: **57-31-6**

Well Location: **The Ranches at Double Horn Lot 1A
Spicewood, TX 78669**

Latitude: **30° 33' 08" N**

Longitude: **098° 09' 41" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/26/2013**

Drilling End Date: **8/26/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	18
	6.25	18	340

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Port

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 200,180,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
218-320	Marble Falls

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: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-027		Broken Limestone w/Clay
027-059		Gray Tan Limestone
059-083		Broken Limestone -Clay-Red
083-		DK Gray-Tan Limestone
218		H2o
320		H2o
320-340		Gray Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5OD)	New PVC	+2 to 200 SDR 17
4.5"	(5OD)	Slotted	200 to 240 .035
4.5"	(5OD)	New PVC	240 to 320 SDR 17
4.5"	(5OD)	Slotted	320 to 340 .035

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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 #350486

Owner: **Sara & Donald Brauninger**

Owner Well #: **No Data**

Address: **516 Camp Ridge Rd
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **516 Camp Ridge Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 04" N**

Longitude: **098° 09' 42" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/8/2013**

Drilling End Date: **11/8/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	145

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Backfill/ 2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-001		Top Soil
001-025		Sand Gravel
025-030		Tan Sandy Clay
030-044		Gray Clay
044-081		Sand & Gravel
		Backfilled 2 Cement Cap
081-101		Tan Clay
101-145		Gray Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
N/A			

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #359280

Owner: **Corix Utilities** Owner Well #: **No Data**
Address: **6836 Bee Cave Rd. Ste 209** Grid #: **57-31-9**
Austin, TX 78746
Well Location: **Golf Course Drive** Latitude: **30° 31' 16" N**
Spicewood, TX 78669 Longitude: **098° 08' 22" W**
Well County: **Burnet** Elevation: **645 ft. above sea level**

****This well has been plugged****

Plugging Report Tracking #93544

Type of Work: **New Well** Proposed Use: **Test Well**

Drilling Start Date: **11/4/2013** Drilling End Date: **4/7/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	36

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Annular Seal Data: **No Data**

Seal Method: **NA**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **5 ft. below land surface on 2013-11-06** Measurement Method: **Unknown**

Packers: **Gravel**

Type of Pump: **Test** Pump Depth (ft.): **0**

Well Tests: **Pump** **Yield: 125 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
5-36	Good TDS 500

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: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	Brown Clay
5	10	Brown Clay Fine gravel
10	36	Medium gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
8"	New	PVC-SDR 17IB	0 to 16
8"	New	PVC-17 Slotted .035	16 to 36

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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 #362791

Owner:	LCRA	Owner Well #:	Well #1
Address:	PO Box 220 Austin, TX 78767	Grid #:	57-31-9
Well Location:	Bottom of Spicewood Beach Boat Ramp Spicewood, TX	Latitude:	30° 31' 26" N
		Longitude:	098° 08' 37" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Public Supply
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Drilling Start Date: 4/28/2014

Drilling End Date: 4/30/2014

Plans Approved by TCEQ - YES

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	18.5	0	38

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	7	38	Gravel	12-20

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	4	8	3 sks Portland

Seal Method: Positive Displacement
Exterior Method

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Alternative Procedure Used

Water Level:	7 ft. below land surface on 2014-04-30	Measurement Method:	Unknown
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Packers: na

Type of Pump:	Submersible	Pump Depth (ft.):	30
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Well Tests:	Pump	Yield:	160 GPM with 13 ft. drawdown after 8 hours
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Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
7-38	Surface

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: **Geoprojects**
8834 Circle Drive
Austin, TX 78736

Driller Name: **Evan Schaefer** License Number: **58772**

Comments: **TCEQ approved this well completion as surface water infiltration galleries for Spicewood Beach PWS System.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	fine Silts
2	7	Black Clay
7	38	Sand and Gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
New 12" 304 SS blank from 2' to 10' and			
new 12" SS Wire-Wrapped, Rod-Based, .020" Screen from 10' to 35'.			

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #362793

Owner:	LCRA	Owner Well #:	Well #2
Address:	PO Box 220 Austin, TX 78767	Grid #:	57-31-9
Well Location:	Bottom of Spicewood Beach Boat Ramp Spicewood, TX	Latitude:	30° 31' 26" N
		Longitude:	098° 08' 37" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Public Supply
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Drilling Start Date: 5/5/2014

Drilling End Date: 5/7/2014

Plans Approved by TCEQ - YES

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	18.5	0	38

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	7	38	Gravel	12-20

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	4	8	3 sks Portland

Seal Method: Positive Displacement
Exterior Method

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Alternative Procedure Used

Water Level:	7 ft. below land surface on 2014-04-30	Measurement Method:	Unknown
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Packers: na

Type of Pump:	Submersible	Pump Depth (ft.):	30
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Well Tests:	Pump	Yield:	160 GPM with 13 ft. drawdown after 8 hours
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Water Quality:

Strata Depth (ft.)	Water Type
7-38	Surface

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: **Geoprojects**
8834 Circle Drive
Austin, TX 78736

Driller Name: **Evan Schaefer** License Number: **58772**

Comments: **TCEQ approved this well completion as surface water infiltration galleries for Spicewood Beach PWS System.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	Fine Silt
10	38	Sand and Gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
New 12" 304 SS blank from 2' to 10' and			
new 12" Stainless Steel, Wire-Wrapped, Rod Based Screen from 10' to 35'			

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 #363928

Owner: **Michael W. Henry Sr.**

Owner Well #: **No Data**

Address: **1639 Hickory Creek Rd
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1639 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 47" N**

Longitude: **098° 07' 49" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/25/2014**

Drilling End Date: **3/25/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	125

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 6,50,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: Seep GPM**

Water Quality:

Strata Depth (ft.)	Water Type
65-103	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling Inc.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	25	Tan Limestone
25	35	Gray Tan Limestone
35	65	Cray Clay
65	74	Red Sandstone
74	103	Gravel
103	125	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5 OD)	New	PVC	2' to 85' SDR 17
4.5" (5 OD)	New	Slotted	85' to 105' .035
4.5" (5 OD)	New	PVC	105' to 125' SDR17

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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 #380276

Owner: **Central Texas Groundwater Conservation**
Address: **225 South Pierce
Burnet, TX 78611**
Well Location: **Vista Del Rio (Horse Stable)
Burnet, TX 78611**
Well County: **Burnet**

Owner Well #: **No Data**
Grid #: **57-31-9**
Latitude: **30° 32' 29" N**
Longitude: **098° 09' 41" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **9/17/2014**

Drilling End Date: **9/22/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	160
	6.25	160	1100

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	25	10 Portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land Owner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **Burlap/Neoprene 160,158,25,30**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: N/A GPM**

Water Quality:

Strata Depth (ft.)	Water Type
658-1100	Ellenberger

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: **APEX Drilling INC.**

**P O Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	7	Gravel
7	18	Tan Limestone Red Clay
18	21	Hard
21	26	Gravel
26	33	Gravel
33	37	Tan Clay
37	81	Gray Clay Blue
81	90	Gray Limestone w Blue Clay Stripes
90	94	Clay
94	156	Gray Limestone w Clay
156	217	Gray Tan Limestone
217	625	Gray Blue Tan Limestone
625	658	Gray White Limestone
658	1100	Tan Gray Dolomite Limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6.25"	New	PVC	+2' to 160 SCH40

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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 #384317

Owner: **Shane & Leah Carpenter**

Owner Well #: **No Data**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 32" N**

Longitude: **098° 08' 18" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/23/2014** Drilling End Date: **12/23/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	101

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling INC.**

**P O Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	17	Tan White LS
17	21	Gray Tan LS
21	50	Gray Clay
50	61	Red SS
61	81	Gravel
81	95	Tan Clay
95	101	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N /A Back fill			

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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 #384318

Owner: **Shane & Leah Carpenter**

Owner Well #: **No Data**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 32" N**

Longitude: **098° 08' 18" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/23/2014** Drilling End Date: **12/23/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	101

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling INC.**
P O Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	17	Tan White LS
17	21	Gray Tan LS
21	50	Gray Clay
50	61	Red SS
61	81	Gravel
81	95	Tan Clay
95	101	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
N /A Back fill			

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P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #393220

Owner: **Shane & Leah Carpenter**

Owner Well #: **2**

Address: **401 CR 346
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **401 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 33' 35" N**

Longitude: **098° 08' 17" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/15/2015**

Drilling End Date: **4/15/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40
	6.25	40	110

Drilling Method: **Air Rotary**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Dry**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
000-001		Top Soil
001-028		Tan LS
028-035		Gray Clay
035-054		Tan Red SS
054-073		Gravel
073-105		Tan Clay
		Backfilled
		2 Cement Cap

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #398435

Owner: **John Lookenbach**

Owner Well #: **No Data**

Address: **10150 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10150 FM 1431
Burnet, TX 78611**

Latitude: **30° 33' 51" N**

Longitude: **098° 09' 27" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2015**

Drilling End Date: **6/29/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	230

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Apex Drilling INC.**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 165,160,30,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 3 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
165-210	Trinity TDS 720

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan LS
15	32	Gray Tan LS
32	95	Tan LS W/ Sand
95	121	Red Clay
121	147	Gray Tan LS
147	165	Gray Clay
165	210	Gravel
210	225	Tan Clay
225	230	Gray Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5 OD)	New	PVC	+2' to 170' SDR17
4.5" (5 OD)	New	Screen	170' to 210' .035
4.5" (5 OD)	New	PVC	210' to 230 SDR17

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #404689

Owner:	Scott Lytle	Owner Well #:	No Data
Address:	17327 Rosy Hill Court Cypress, TX 77429	Grid #:	57-31-6
Well Location:	1690 Hickory Creek Rd Marble Falls, TX 78654	Latitude:	30° 32' 36" N
		Longitude:	098° 07' 43" W
Well County:	Burnet	Elevation:	682 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **8/14/2015** Drilling End Date: **8/17/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	12 cement
	20	30	12 Bentonite

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **50+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Mesured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **20 ft. below land surface on 2015-08-14** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
30/50	Good

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Bormann**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
0	30	Clay
30-50	Gravel	

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	New	PVC-SDR 171B	0/30'
4.5	New	PVC-17 Slotted	30/50' 0.35

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #404864

Owner:	Travis Spaulding	Owner Well #:	Well #1
Address:	PO Box 563 Marble Falls, TX 78654	Grid #:	57-31-6
Well Location:	1700 Hickory Creek Lane Marble Falls, TX 78654	Latitude:	30° 32' 39" N
Well County:	Burnet	Longitude:	098° 07' 44" W
		Elevation:	690 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **8/14/2015** Drilling End Date: **8/14/2015**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.75	0	50

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	5	5 Cement
	35	50	20 Bentonite

Seal Method: **Pos. displacement**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **20 ft. below land surface on 2015-08-13** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
35/45	Good

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**
PO Box 525
Dripping Springs, TX 78620

Driller Name: **Brice Bormann**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0	35	Clay
35	45	Gravel
45	50	Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR-17	solid 0/30
4.5	New	PVC-SDR 17	Screen 30/50 .020

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 #404867

Owner: **Travis Spaulding** Owner Well #: **Well #2**
Address: **PO Box 563** Grid #: **57-31-6**
Marble Falls, TX 78654
Well Location: **1700 Hickory Creek Rd** Latitude: **30° 32' 36" N**
Marble Falls, TX 78654 Longitude: **098° 07' 42" W**
Well County: **Burnet** Elevation: **682 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #151852

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **8/25/2015** Drilling End Date: **8/25/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	7.875	0	65

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	no casing 0/4 1 type H cement		
	4/65 Back fill-cuttings		

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Borman**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>From (ft)</i>	<i>To (ft)</i>	<i>Description</i>
0	4	Clay
4	65	Sandy Loam

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #416407

Owner: **Matthew R. & Luisa Piette**

Owner Well #: **No Data**

Address: **527 Pawtucket Blvd.
Lowell, MA 01854**

Grid #: **57-31-6**

Well Location: **1425 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 30" N**

Longitude: **098° 07' 49" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/9/2016**

Drilling End Date: **2/9/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	55
	6.25	55	130

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	3	Portland 1 Bags/Sacks
	3	55	Benseal 3 Bags/Sacks

Seal Method: **Pressure**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **50+**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 55 ft.
Burlap/Neoprene at 56 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
55 - 88	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	5	Tan LS
5	10	Sand Gravel
10	18	Tan LS
18	23	Gray LS
23	45	Gray Clay
45	50	Tan Clay
50	55	Gray Clay
55	56	Red SS
56	88	Red SS w/ Gravel
88	105	Tan Clay
105	130	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	70
4.5	Screen	New Plastic (PVC)	.035	70	90
4.5	Blank	New Plastic (PVC)	SDR17	90	130

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 #425171

Owner: **Shookies, LP**

Owner Well #: **1**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 41" N**

Longitude: **098° 08' 57" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/10/2016**

Drilling End Date: **6/10/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 74 ft.
Burlap/Neoprene at 80 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80 - 120	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	6	Sandy Gravel
6	8	Tan Clay
8	10	Red Clay
10	20	Tan LS Red Clay
20	27	Tan Sand
27	35	Tan LS
35	40	Fine Gray Sand w/ Clay
40	43	Gray SS
43	80	Gray Tan LS
80	81	Red SS
81	113	Gravel
113	117	Red Clay
117	119	Gravel
119	120	Turquoise Clay
120	140	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	80
4.5	Screen	New Plastic (PVC)	.035	80	120
4.5	Blank	New Plastic (PVC)	SDR17	120	140

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 #425172

Owner: **Shookies, LP**

Owner Well #: **2**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 09' 07" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/13/2016**

Drilling End Date: **6/13/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	17	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 25 ft.
Burlap / Neoprene at 28 ft.
Burlap / Neoprene at 95 ft.
Burlap / Neoprene at 98 ft.
Burlap / Neoprene at 100 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
20 - 130	Trinity - TDS 620

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: **Apex Drilling, Inc.**

**P.O. Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Red SS
2	10	Tan Sand
10	17	Tan LS Red Clay
17	20	Gray Sand w/ Clay
20	22	Gravel
22	41	Red Clay
41	50	Tan LS
50	95	Gray Tan LS
95	106	Red SS
106	130	Gravel
130	131	Clay
131	150	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	18
4.5	Screen	New Plastic (PVC)	.035	18	30
4.5	Blank	New Plastic (PVC)	SDR17	30	110
4.5	Screen	New Plastic (PVC)	.035	110	130
4.5	Blank	New Plastic (PVC)	SDR17	130	150

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 #425173

Owner: **Shookies, LP**

Owner Well #: **3**

Address: **407 Meadow Run Dr
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 48" N**

Longitude: **098° 09' 05" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/16/2016**

Drilling End Date: **6/16/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	155

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	Portland 3 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 15 ft.
Burlap / Neoprene at 55 ft.
Burlap / Neoprene at 115 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
15 - 134	Trinity - TDS 640

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Red SS
15	27	Sand & Gravel
27	46	Red Clay
46	58	Tan LS W/ Sand
58	103	Gray Tan LS
103	107	Gravel
107	116	Red SS
116	134	Gravel
134	134	Turquoise Clay
135	155	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	15
4.5	Screen	New Plastic (PVC)	.035	15	35
4.5	Blank	New Plastic (PVC)	SDR17	35	55
4.5	Screen	New Plastic (PVC)	.035	55	75
4.5	Blank	New Plastic (PVC)	SDR17	75	115
4.5	Screen	New Plastic (PVC)	.035	115	135
4.5	Blank	New Plastic (PVC)	SDR17	135	155

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 #425174

Owner: **Shookies, LP**
Address: **407 Meow Run Dr.
Friendswood, TX 77546**
Well Location: **10516 E FM 1431
Marble Falls, TX 78654**
Well County: **Burnet**
Number of Wells Drilled: **5**

Owner Well #: **4**
Grid #: **57-31-6**
Latitude: **30° 33' 36" N**
Longitude: **098° 09' 02" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/17/2016**

Drilling End Date: **6/17/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	15
6.25	15	128

Drilling Method: **Unknown**

Borehole Completion: **Back Filled 2' Cement Cap " DRY "**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **Back Filled 2' Cement Cap " DRY "**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	13	Sandy Loan
13	35	Red Clay
35	45	Sand
45	64	Gray LS
64	90	Gray Clay
90	125	Gravel
125	126	Turquoise Clay
126	128	Tan Clay

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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 #425175

Owner: **Shookies, LP**

Owner Well #: **5**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 35" N**

Longitude: **098° 09' 07" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/22/2016**

Drilling End Date: **6/22/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	160

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	18	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 20 ft.
Burlap / Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
18 - 140	Trinity - TDS 740

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	18	Sandy Loan
18	21	Sand & Gravel
21	35	Tan LS W/ Sand
35	48	Red Clay
48	58	Tan LS W/ Sand
58	105	Gray LS
105	107	Red SS
107	140	Gravel
140	141	Turquoise Clay
141	160	Tan Clay

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	120
4.5	Screen	New Plastic (PVC)	.035	120	140
4.5	Blank	New Plastic (PVC)	SDR17	140	160

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 #448187

Owner:	Jason Early	Owner Well #:	1
Address:	112 Swift Water Road Marble Falls, TX 78654	Grid #:	57-31-6
Well Location:	112 Swift Water Road Marble Falls, TX 78654	Latitude:	30° 32' 38" N
Well County:	Burnet	Longitude:	098° 07' 52" W
		Elevation:	807 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/1/2017**

Drilling End Date: **5/2/2017**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8	0	10
	6.75	10	140

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	-1	10	Bentonite 3 Bags/Sacks

Seal Method: **Poured**

Distance to Property Line (ft.): **60**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **150+**

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **100 ft. below land surface on 2017-05-02** Measurement Method: **Steel Tape**

Packers: **Rubber at 10 ft.**

Type of Pump: **No Data**

Well Tests: **Estimated** Yield: **4+ GPM with 0 ft. drawdown after .5 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walden Drilling Inc**

**PO Box 878
Llano, TX 78643**

Driller Name: **Brian Walden**

License Number: **59369**

Apprentice Name: **Dustin Wilson**

Comments: **No Data**

Report Amended on 7/5/2017 by Request #21916

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	topsoil
1	50	brown limestone with clay streaks
50	70	red clay and sandstone streaks
70	75	brown limestone
75	130	brown sandstone and clay
130	140	grey clay

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	sdr17	-2	100
4.5	Screen	New Plastic (PVC)	sdr17 0.020	100	140

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 #457450

Owner: **Dana B & Mary Ann Copp**

Owner Well #: **No Data**

Address: **600 Avenida Serena
Marble Falls , TX 78654**

Grid #: **57-31-6**

Well Location: **600 Avenida Serena
Marble Falls, TX 78654**

Latitude: **30° 32' 36" N**

Longitude: **098° 09' 35" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **6/16/2017**

Drilling End Date: **6/19/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	37
	6.25	37	100

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	15	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **50**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 15 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
15 - 34	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	12	Red Clay w/ Gravel
12	34	Sand & Gravel
34	38	Tan Clay
38	100	Gray Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	100

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 #534646

Owner:	Robert Brydon	Owner Well #:	1
Address:	Lot 59 Chimney Cove drive Marble Falls, TX 78654	Grid #:	57-31-9
Well Location:	Lot 59 Chimney Cove drive Marble Falls, TX 78654	Latitude:	30° 31' 51" N
		Longitude:	098° 08' 35" W
Well County:	Burnet	Elevation:	639 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/30/2020** Drilling End Date: **1/30/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **backfilled**

Sealed By: **Driller**

Distance to Property Line (ft.): **100+**

Distance to Septic Field or other
concentrated contamination (ft.): **200+**

Distance to Septic Tank (ft.): **200+**

Method of Verification: **owner**

Surface Completion: **backfilled**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Walden Drilling Inc**

**PO Box 878
Llano, TX 78643**

Driller Name: **Brian Walden**

License Number: **59369**

Apprentice Name: **Dustin Wilson**

Comments: **hole collapsing from river gravel. lost returns at 15 feet and caving. Needs mud drilling or drive steel casing in ground. Unsure of gravel depth to drive steel.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	10	red sand and clay
10	40	sand and river gravel

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #563153

Owner: **Dana Nauman**

Owner Well #: **No Data**

Address: **1106 Ninth St
Marble Falls , TX 78654**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 16" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **12/29/2020**

Drilling End Date: **12/29/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.5	0	20
	6.5	20	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **Unknown**

Distance to Septic Field or other
concentrated contamination (ft.): **Unknown**

Distance to Septic Tank (ft.): **Unknown**

Method of Verification: **Unknown**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 7631**
DRY

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	8	Sandy Loam w/ Gravel
8	12	Tan LS w/ Red Clay
12	119	Black Brown LS
119	123	Tan LS
123	128	Tan Black LS
128	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation
P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #565204

Owner: **Damon Naumann**

Owner Well #: **2**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 13" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **2**

Type of Work: **New Well**

Proposed Use: **Unknown**

Drilling Start Date: **1/18/2021**

Drilling End Date: **1/18/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8.5	0	17
6.25	17	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **UNKNOWN**

Distance to Septic Field or other
concentrated contamination (ft.): **UNKNOWN**

Distance to Septic Tank (ft.): **UNKNOWN**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker P.G.** License Number: **54516**

Comments: **CTGCD # 7881**
DRY - Backfilled w/2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	10	Gravel w/ Red Clay
10	17	Tan LS
17	23	Black LS
23	27	Light Tan LS
27	30	Brown LS
30	200	Black and Brown LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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 #565218

Owner: **Lawrence Luckenbach**

Owner Well #: **No Data**

Address: **10120 E. FM 1431
Marble Falls , TX 78654**

Grid #: **57-31-6**

Well Location: **10120 E. FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 40" N**

Longitude: **098° 09' 26" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/19/2021**

Drilling End Date: **1/19/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.5	0	18
	6.25	18	180

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 120 ft.
Burlap/Neoprene at 125 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
127 - 155	Trinity

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **APEX Drilling, Inc.**
PO Box 867
Marble Falls, TX 78654

Driller Name: **Michael G. Becker P.G.** License Number: **54516**

Comments: **CTGCD # 7720**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	12	Tan LS
12	16	Sand
16	21	Tan LS
21	28	Red White LS w/ Red Clay
28	45	Tan LS w/ Big Sand
45	63	Red SS
63	79	Red White LS
79	98	Gray Tan LS
98	117	Hammett Clay
117	127	Red SS
127	153	Gravel
153	180	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	140
4.5	Screen	New Plastic (PVC)	.035	140	160
4.5	Blank	New Plastic (PVC)	SDR17	160	180

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 #572622

Owner: **Damon Naumann**

Owner Well #: **3**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 17" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **3**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **4/27/2021**

Drilling End Date: **4/27/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **UNKNOWN**

Distance to Septic Field or other
concentrated contamination (ft.): **UNKNOWN**

Distance to Septic Tank (ft.): **UNKNOWN**

Method of Verification: **UNKNOWN**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 8027**
Backfilled w/2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top SOil
1	7	Sandy Loam w/ Gravel
7	13	Tan LS
13	30	Tan Brown LS
30	115	Black Brown LS
115	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #575316

Owner:	Rocky Waters Ranches 2 LP	Owner Well #:	No Data
Address:	598 W. Eau Gallie Blvd Melbourne , FL 32935	Grid #:	57-31-6
Well Location:	11705 East FM 1431 Marble Falls, TX 78654	Latitude:	30° 33' 37.3" N
		Longitude:	098° 08' 04.09" W
Well County:	Burnet	Elevation:	842 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 4/12/2021 Drilling End Date: 4/13/2021

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.625	0	10
	8.5	10	345

Drilling Method: Air Hammer

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	40	Cement 9
	40	48	Bentonite 3

Seal Method: Poured

Sealed By: Driller

Distance to Property Line (ft.): 300

Distance to Septic Field or other
concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: Rubber at 48 ft.
Rubber at 50 ft.

Type of Pump: Submersible

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Bee Cave Drilling, Inc.**
185 Angel Fire Rd.
Dripping Springs, TX 78620

Driller Name: **michael scott**

License Number: **59719**

Comments: **No Data**

Report Amended on 6/7/2021 by Request #34248

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	tan limestone
10	20	grey limestone / shale streaks / sand
20	40	grey limestone / shale
40	70	grey shale
70	100	red shale / red limestone
100	130	tan gravel 1 gpm
130	160	grey limestone
160	310	hard grey dolemite / stringers of clay
310	345	dark grey shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	50

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 #592925

Owner: **R&G Properties LLC** Owner Well #: **1**
Address: **P.O. Box 97** Grid #: **57-31-6**
Salado, TX 76571
Well Location: **11705 E FM 1431** Latitude: **30° 33' 56" N**
Marble Falls, TX 78654 Longitude: **098° 08' 05" W**
Well County: **Burnet** Elevation: **887 ft. above sea level**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #215127

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/8/2021** Drilling End Date: **12/8/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	20
	6.75	20	210

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Driller**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Plugged**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Lucy Creek Water Well Service****PO Box 1847
Lampasas, TX 76550**Driller Name: **Juan Munoz**License Number: **54176**Apprentice Name: **Mario Munoz**Apprentice Number: **60427**Comments: **Dry Well / Plugged**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Red Sand
3	6	Tan L.S.
6	17	Reddish L.S.
17	20	Overburden
20	25	Sand
25	49	Red Shale
49	55	Sandy Tan L.S.
55	60	Tan + Yellow Shale
60	69	Black Sandy Shale
69	72	Black Shale
72	103	Grey Shale
103	109	Gray Sand
109	118	Brown Gravel
118	127	Red/Brown Shale
127	140	Brown Soil
140	155	Chunky Gravel
155	210	Grey Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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P.O. Box 12157
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STATE OF TEXAS WELL REPORT for Tracking #593620

Owner: **Damon Naumann**

Owner Well #: **4**

Address: **734 CR 407
Spicewood, TX 78669**

Grid #: **57-31-8**

Well Location: **Flying X Rd
Spicewood, TX 78669**

Latitude: **30° 30' 48" N**

Longitude: **098° 10' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **4**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **12/13/2021**

Drilling End Date: **12/13/2021**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	30
6.25	30	200

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **UNKNOWN**

Distance to Septic Field or other
concentrated contamination (ft.): **UNKNOWN**

Distance to Septic Tank (ft.): **UNKNOWN**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**

**P.O. Box 867
Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Apprentice Name: **Alfonso Rodriguez Jr.**

Apprentice Number: **60952**

Comments: **CTGCD # 8393
Dry
Backfilled w2' Cement Cap**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top SOil
1	3	Sandy Loam w/ Gravel
3	15	Broken Tan LS w/ Red Clay
15	19	Tan LS
19	23	Void
23	43	Brown LS
43	160	Black Brown LS
160	200	Black LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #631774

Owner: **CR OPERATING, LLC**

Owner Well #: **Alt A**

Address: **111 East 5th St.
Suite 400
Fort Worth, TX 76102**

Grid #: **57-31-8**

Latitude: **30° 31' 20" N**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Longitude: **098° 10' 24" W**

Elevation: **No Data**

Well County: **Burnet**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #227438

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/11/2023**

Drilling End Date: **2/9/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	722

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE. Shovel cuttings back in hole.**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	2	Cement 1 Bags/Sacks
	2	33	Bentonite 15 Bags/Sacks
	33	722	Cuttings

Seal Method: **Poured**

Distance to Property Line (ft.): **500+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No known septic**

Distance to Septic Tank (ft.): **No known septic**

Method of Verification: **Owner Knowledge**

Surface Completion: **None**

Surface Completion NOT by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE
CUTTINGS PLACED BACK IN THE BOREHOLE AND SURFACE PLUGGED**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Topsoil
2	10	Tan hard Limestone
10	18	Tan and red Limestone with red Clay lenses
18	30	Gray hard Limestone
33	360	Loss returns. Void from 30 to 33
360	380	Black Shale with Slight hydrocarbon odor.
380	722	Offwhite to tan, hard Limestone. Minimal returns, only at connections. NO WATER

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #634625

Owner: **CR OPERATING, LLC**

Owner Well #: **TH 6**

Address: **111 East 5th St.
Fort Worth, TX 76102**

Grid #: **57-31-8**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Latitude: **30° 31' 51" N**

Longitude: **098° 10' 34" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **2/14/2023**

Drilling End Date: **2/21/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
10	0	63
8	63	724

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE, BACKFILLED WITH CUTTINGS**

Annular Seal Data: **No Data**

Seal Method: **Cement upper 2 feet,
BACKFILLED WITH
CUTTINGS**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **None**

Distance to Septic Tank (ft.): **None**

Method of Verification: **No Data**

Surface Completion: **None**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE, BACKFILLED WITH CUTTINGS WITH 2' SEAL AT SURFACE.**

Report Amended on 3/23/2023 by Request #39094

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	18	Tan Clay
18	53	Dark tan Clay
53	292	Gray Shale
292	330	Gray Limestone
330	420	White Limestone
420	440	Gray Limestone
440	450	White Limestone
450	510	Gray Limestone
510	530	Light Gray Dolomite
530	724	Dark Gray Dolomite

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #634636

Owner: **CR OPERATING, LLC**

Owner Well #: **TH 1A**

Address: **111 East 5th St.
Fort Worth, TX 76102**

Grid #: **57-31-8**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Latitude: **30° 31' 49" N**

Longitude: **098° 10' 53" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **2/28/2023**

Drilling End Date: **3/10/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
12	0	36
8	36	722

Drilling Method: **Air Hammer**

Borehole Completion: **DRY HOLE. BACKFILLED WITH CUTTINGS.**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	2	Cement 1 Bags/Sacks

Seal Method: **BACKFILLED WITH
CUTTINGS.**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **None**

Distance to Septic Tank (ft.): **None**

Method of Verification: **Owner Knowledge**

Surface Completion: **None**

Surface Completion NOT by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer** License Number: **58772**

Comments: **DRY HOLE. BACKFILLED WITH CUTTINGS, SURFACE SEAL.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	22	Yellow Clay with Gravel
22	89	Gray Clay
89	110	Gray Limestone
110	190	White Limestone
190	539	Gray Limestone
539	558	Soft gray Limestone
558	586	Soft black Shale
586	722	White Limestone. NO WATER

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
No Data			

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #634743

Owner: **Jennifer Greenberg**

Owner Well #: **No Data**

Address: **10701 Callanish Park Dr
Austin , TX 78750**

Grid #: **57-31-6**

Well Location: **Hickory Creek Rd
Smithwick, TX**

Latitude: **30° 33' 01" N**

Longitude: **098° 07' 59" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **Unknown**

Proposed Use: **Unknown**

Drilling Start Date: **3/16/2023**

Drilling End Date: **3/16/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	140

Drilling Method: **Unknown**

Borehole Completion: **Unknown**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **Unknown**

Distance to Septic Field or other
concentrated contamination (ft.): **Unknown**

Distance to Septic Tank (ft.): **Unknown**

Method of Verification: **Unknown**

Surface Completion: **Unknown**

Surface Completion by Driller

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Apprentice Name: **Alfonso Rodriguez Jr**

Apprentice Number: **60952**

Comments: **CTGCD # 9063**
Backfilled w/ 2' Cement Cap

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	11	Sandy Loam / Gravel
11	27	Tan LS
27	37	Gray Tan LS
37	40	Gray LS w/ Clay
40	57	Hammet Clay
57	61	Tan SS
61	66	Red SS
66	86	Tan Red SS w/ Gravel Sand
86	140	Turquoise Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #642402

Owner:	CR OPERATING, LLC	Owner Well #:	MF5
Address:	111 East 5th Street Fort Worth, TX 76102	Grid #:	57-31-8
Well Location:	County Road 407, End of Flying X Road Spicewood, TX	Latitude:	30° 31' 45.62" N
		Longitude:	098° 10' 56.68" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Test Well
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Drilling Start Date: 5/12/2023 Drilling End Date: 5/23/2023

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	304

Drilling Method: Air Hammer

Borehole Completion: CUTTINGS SHOVELED BACK IN HOLE. DRY HOLE.

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	5	Cement 2 Bags/Sacks

Seal Method: Not Applicable

Sealed By: Driller

Distance to Property Line (ft.): No Data

Distance to Septic Field or other
concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion:	NOT COMPLETED	Surface Completion NOT by Driller
---------------------	---------------	-----------------------------------

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K. Schaefer**

License Number: **58772**

Comments: **DRY HOLE. BOREHOLE BACKFILLED WITH CUTTINGS, CEMENT CAP AT TOP.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	50	Yellow Clay and Gravel
50	240	Hard grey Limestone; soft, clayey 207-231
240	304	Hard Black Limestone. DRY HOLE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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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 #642746

Owner: **CR OPERATING, LLC**

Owner Well #: **TH-4**

Address: **111 East 5th St.
FORT WORTH, TX 76102**

Grid #: **57-31-8**

Well Location: **COUNTY ROAD 407, END OF FLYING
X ROAD
SPICEWOOD, TX**

Latitude: **30° 31' 33" N**

Longitude: **098° 10' 56" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/6/2023**

Drilling End Date: **5/11/2023**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
16	0	31
12	31	95
8	95	565

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed; Screened; Straight Wall**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
31	105	Gravel	.25

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	31	Cement 40 Bags/Sacks

Seal Method: **Positive Displacement**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Owner Knowledge**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **42 ft. below land surface on 2023-03-23**

Measurement Method: **Electric Line**

Packers: **Rubber at 108 ft.
Rubber at 109 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: ~120 GPM**

Plug Information:

Description (number of sacks & material)	Top Depth (ft.)	Bottom Depth (ft.)
Cement	240	565

Water Quality:

Strata Depth (ft.)	Water Type
60 - 230	Marble Falls

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: **Geoprojects International, Inc.****8834 Circle Dr
Austin, TX 78736**Driller Name: **Evan K Schaefer**License Number: **58772**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	31	Tan Clay w/ Gravel
31	65	Grey Limestone
65	75	Tan Limestone
75	90	VOID Clay and Silt-filled. Water encountered, est. 100+GPM
90	160	Light Grey Limestone
160	220	Grey Limestone
220	230	Tan Limestone
230	320	Grey Limestone
320	340	Tan Limestone
340	440	Grey Limestone
440	510	Dark Grey Limestone
510	550	Darl Grey Shale
550	675	White hard Limestone

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6.9	Blank	New Plastic (PVC)	SDR17	0	60
6.9	Screen	New Plastic (PVC)	SDR17 0.032	60	80
6.9	Blank	New Plastic (PVC)	SDR17	80	100
6	Screen	New Plastic (PVC)	SDR17 0.020	100	230
6	Blank	New Plastic (PVC)	SDR17	230	240

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS PLUGGING REPORT for Tracking #38418

Owner:	TXDOT AustinDistrictBurnet Co	Owner Well #:	Abandoned Well
Address:	P.O. Drawer 15426 Austin, TX 78761	Grid #:	57-31-6
Well Location:	Appx 1 mile east from Smithwick on 1431 TX 78654	Latitude:	30° 34' 02" N
		Longitude:	098° 08' 12" W
Well County:	Burnet	Elevation:	No Data
Well Type:	Withdrawal of Water		

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	Unknown	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10		160

Plugging Information

Date Plugged: 4/19/2007 Plugger: Next-Gen Solutions. Inc.

Plug Method: Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	12	concrete
12	25	bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Next-Gen Solutions, Inc.**

**P.O. Box 220
Keller, TX 76244**

Driller Name: **Dale K. Brown**

License Number: **54785**

Comments: **Well was previously plugged by others. Well in TXDOT ROW expansion. Well was plugged at original grade. TXDOT roadcut equipment cut 20+feet down exposed a 10" hole. Hole was bridged at 25' bgs. Contact R Quincy TWDB & WL Stripling TCEQ (512-463-2966) Hole was plugged on 04-19-07 with bentonite and concrete. TXDOT cut down road to new grade. Reinspected on 04-23-07. No borehole was observed.**

STATE OF TEXAS PLUGGING REPORT for Tracking #55068

Owner:	LCRA	Owner Well #:	No Data
Address:	PO Box 67900 Austin, TX 78767	Grid #:	57-31-5
Well Location:	End of CR 343A Smithwick Mills, TX 78654	Latitude:	30° 32' 34" N
		Longitude:	098° 10' 17" W
Well County:	Burnet	Elevation:	No Data

Well Type: **Withdrawal of Water**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	Unknown	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	5		35

Plugging Information

Date Plugged: **4/2/2004** Plugger: **Frank Glass**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
5	0	35

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	35	7

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Western Water Wells**
500 Southland Dr.
Burnet, TX 78611

Driller Name: **Frank Glass** License Number: **1313**

Comments: **^EO**
Casing information updated by TWDB 9/16/15

STATE OF TEXAS PLUGGING REPORT for Tracking #93544

Owner:	Corix Utilities	Owner Well #:	No Data
Address:	6836 Bee Cave Rd. Ste 209 Austin, TX 78746	Grid #:	57-31-9
Well Location:	Golf Course Drive Spicewood, TX 78669	Latitude:	30° 31' 16" N
Well County:	Burnet	Longitude:	098° 08' 22" W
		Elevation:	No Data
Well Type:	Withdrawal of Water		

Drilling Information

Company:	No Data	Date Drilled:	11/4/2013
Driller:	Martin Lingle	License Number:	54813 AKP

Well Report Tracking #359280

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	12		36

Plugging Information

Date Plugged:	4/7/2014	Plugger:	Fred Smith
Plug Method:	Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet		

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
8	1	36

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	7	6 prld type I
7	36	1 3/8hlpkg 4bnsI

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**
PO Box 525
Dripping Springs, TX 78620

Driller Name:	Fred Smith	License Number:	54437
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Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #107449

Owner: **LEONARD HILT**

Owner Well #: **001**

Address: **1901 RED FOX RD.
AUSTIN, TX 78734**

Grid #: **57-31-9**

Well Location: **LOT 40 CHIMNEY COVES
MARBLE FALLS, TX**

Latitude: **30° 32' 23" N**

Longitude: **098° 08' 02" W**

Well County: **Williamson**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **BEE CAVE DRILLING, INC.**

Date Drilled: **3/5/2003**

Driller: **Jim Blair**

License Number: **54416**

Well Report Tracking #19060

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	13
	8	13	250

Plugging Information

Date Plugged: **3/5/2003**

Plugging: **BOBBY ROBERTS**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 0 0 2 CEM 2

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.
185 ANGELFIRE DR.
DRIPPING SPRINGS, TX 78620**

Driller Name: **BOBBY ROBERTS**

License Number: **54416**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #109199

Owner: **MARION SHIPMAN #1**

Owner Well #: **01**

Address: **PO BOX 1119
CEDAR PARK, TX 78630**

Grid #: **57-31-9**

Well Location: **CHIMNEY COVE ESTATES
SMITHWICK, TX**

Latitude: **30° 32' 14" N**

Longitude: **098° 08' 10" W**

Well County: **Burnet**

Elevation: **707**

Well Type: **Domestic**

Drilling Information

Company: **BEE CAVE DRILLING, INC.**

Date Drilled: **3/17/2004**

Driller: **Jim Blair**

License Number: **54416**

Well Report Tracking #36552

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	13
	8	13	190

Plugging Information

Date Plugged: **3/17/2004**

Plugging: **JIM BLAIR**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 - 2 CEMENT

2 - 190 CUTTINGS

Certification Data:

The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #109200

Owner:	MARION SHIPMAN #2	Owner Well #:	02
Address:	PO BOX 1119 CEDAR PARK, TX 78630	Grid #:	57-31-9
Well Location:	CHIMNEY COVE ESTATES SMITHWICK, TX	Latitude:	30° 31' 51" N
Well County:	Burnet	Longitude:	098° 08' 36" W
		Elevation:	717
Well Type:	Domestic		

Drilling Information

Company:	BEE CAVE DRILLING, INC.	Date Drilled:	3/18/2004
Driller:	Jim Blair	License Number:	54416

Well Report Tracking #36555

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	13
	8	13	50

Plugging Information

Date Plugged:	3/18/2004	Plugging:	JIM BLAIR
Plug Method:	Unknown		

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Description (number of sacks & material)
0 - 3 CEMENT
3 - 50 CUTTINGS

Certification Data:

The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING, INC.**
185 ANGEL FIRE DR.
DRIPPING SPRINGS, TX 78620

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **GREG SVETLIK**

Apprentice Number: **WWDAPP00001**
734

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #112663

Owner: **PHILLIP JOSEPH**

Owner Well #: **No Data**

Address: **2904 Richard Lane
Austin, TX 78703**

Grid #: **57-31-9**

Well Location: **Smithwick (near Narrows)
Marble Falls, TX 78654**

Latitude: **30° 32' 24" N**

Longitude: **098° 09' 47" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Western Water Wells**

Date Drilled: **9/22/2005**

Driller: **Frank A Glass**

License Number: **1313**

Well Report Tracking #68883

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	15
	6	15	300

Plugging Information

Date Plugged: **9/22/2005**

Plugging: **Frank Glass**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

Not Provided

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Western Water Wells
500 Southland Drive
Burnet, TX 78611**

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119952

Owner: **Smithwick Cemetery Association**

Owner Well #: **2**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 35" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/18/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136417

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/18/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119953

Owner: **Smithwick Cemetery Association**

Owner Well #: **3**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/18/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136421

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/18/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119954

Owner: **Smithwick Cemetery Association**

Owner Well #: **4**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136423

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119955

Owner: **Smithwick Cemetery Association**

Owner Well #: **5**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136424

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #119956

Owner: **Smithwick Cemetery Association**

Owner Well #: **6**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 50" N**

Longitude: **098° 08' 28" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Domestic**

Drilling Information

Company: **L & L Drilling Co.**

Date Drilled: **2/19/2008**

Driller: **Gregory Allen Smith**

License Number: **1595**

Well Report Tracking #136425

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6.75	0	162

Plugging Information

Date Plugged: **2/19/2008**

Plugger: **Gregory A. Smith**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

no casing 0 - 10 cement 2 sacks

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #130850

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 20" N**

Longitude: **098° 08' 46" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Tom Arnold Drilling**

Date Drilled: **3/15/2006**

Driller: **Tommy D Arnold**

License Number: **2096**

Well Report Tracking #251911

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	40

Plugging Information

Date Plugged: **3/15/2006**

Plugger: **Tommy D. Arnold**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 2 1

2 40 Drill Cuttings

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Tom Arnold Drilling
1147 CR 170
Round Rock, TX 78664**

Driller Name: **Tommy D. Arnold**

License Number: **2096**

Comments: **\$dfs**

STATE OF TEXAS PLUGGING REPORT for Tracking #130851

Owner: **Kal Zare**

Owner Well #: **No Data**

Address: **P. O. Box 340520
Austin, TX 78734**

Grid #: **57-31-9**

Well Location: **360 Chimney Cove Drive
Marble Falls, TX 78654**

Latitude: **30° 32' 21" N**

Longitude: **098° 08' 47" W**

Well County: **Burnet**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Tom Arnold Drilling**

Date Drilled: **3/15/2006**

Driller: **Tommy D Arnold**

License Number: **2096**

Well Report Tracking #251913

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	6	0	165

Plugging Information

Date Plugged: **3/15/2006**

Plugging: **Tommy D. Arnold**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0 2 1

2 165 Drill Cuttings

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Tom Arnold Drilling
1147 CR 170
Round Rock, TX 78664**

Driller Name: **Tommy D. Arnold**

License Number: **2096**

Comments: **\$dfs**

STATE OF TEXAS PLUGGING REPORT for Tracking #151852

Owner: **Travis Spaulding**

Owner Well #: **Well #2**

Address: **PO Box 563
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **1700 Hickory Creek Rd
Marble Falls, TX 78654**

Latitude: **30° 32' 36" N**

Longitude: **098° 07' 42" W**

Well County: **Burnet**

Elevation: **682**

Well Type: **Irrigation**

Drilling Information

Company: **Whisenant & Lyle Water Services**

Date Drilled: **8/25/2015**

Driller: **Brice Bormann**

License Number: **54855**

Well Report Tracking #404867

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	7.875	0	65

Plugging Information

Date Plugged: **8/25/2015**

Plugging: **Brice Borman**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

Not Provided

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Brice Borman**

License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #215127

Owner: **R&G Properties LLC**

Owner Well #: **1**

Address: **P.O. Box 97
Salado, TX 76571**

Grid #: **57-31-6**

Well Location: **11705 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 05" W**

Well County: **Burnet**

Elevation: **887**

Well Type: **Domestic**

Drilling Information

Company: **Lucy Creek Water Well Service**

Date Drilled: **12/8/2021**

Driller: **MUNOZ, JUAN**

License Number: **54176**

Well Report Tracking #592925

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.75	0	20
	6.75	20	210

Plugging Information

Date Plugged: **12/8/2021**

Plugging: **Juan Munoz**

Plug Method: **Native Cuttings**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	210	Native Cuttings

Certification Data: The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Lucy Creek Water Well Service**

**PO Box 1847
Lampasas, TX 76550**

Driller Name: **Juan Munoz**

License Number: **54176**

Apprentice Name: **Mario Munoz**

Apprentice Number: **60427**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #227438

Owner: **CR OPERATING, LLC**

Owner Well #: **Alt A**

Address: **111 East 5th St.
Suite 400
Fort Worth, TX 76102**

Grid #: **57-31-8**

Latitude: **30° 31' 20" N**

Well Location: **County Road 407, End of Flying X
Road
Spicewood, TX**

Longitude: **098° 10' 24" W**

Elevation: **No Data**

Well County: **Burnet**

Well Type: **Test Well**

Drilling Information

Company: **Geoprojects International, Inc.**

Date Drilled: **2/9/2023**

Driller: **Evan Schaefer**

License Number: **58772**

Well Report Tracking #631774

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	722

Plugging Information

Date Plugged: **2/9/2023**

Plugger: **Evan Schaefer**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth,
cement top 2 feet**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description (number of sacks & material)</i>
0	2	Cement 1 Bags/Sacks
2	30	Bentonite 15 Bags/Sacks

Certification Data:

The driller certified that the driller plugged this well (or the well was plugged under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the reports(s) being returned for completion and resubmittal.

Company Information: **Geoprojects International, Inc.**

**8834 Circle Dr
Austin, TX 78736**

Driller Name: **Evan K Schaefer**

License Number: **58772**

Comments: **DRY HOLE
CUTTINGS SHOVELED BACK INTO HOLE, HOLE PLUG AND CEMENT CAP AT
SURFACE.**

APPENDIX P

GROUNDWATER QUALITY REPORT, USDA SOIL SURVEY MAP AND SOIL ANALYSES

GROUNDWATER QUALITY ASSESSMENT

FOR

**SMITHWICK TRACT WASTEWATER TREATMENT PLANT
DOMESTIC WASTEWATER PERMIT APPLICATION
FOR A
TEXAS LAND APPLICATION PERMIT**

June 2024

PREPARED BY

**LJA ENGINEERING, INC.
7500 RIALTO BLVD, BUILDING II, SUITE 100
AUSTIN, TEXAS 78735
(512) 439-4700**

GROUNDWATER QUALITY ASSESSMENT

The purpose of this report is to assess the impact of the disposal of treated effluent on uses of local groundwater resources, as a part of the requirements of Title 30 of the Texas Administrative Code, Chapter 309, Subchapter C, Rule §309.20(a)(4). This report is provided as a supplement to the information included in the Domestic Worksheet 3.0, Section 7.

- (A) All water wells within a half mile radius of the disposal areas have been identified using the current Texas Water Development Board (TWDB) database. Where available, the uses of the wells have been identified. It should be noted that several of the wells labeled as public supply on the driller's logs appear to be for private use currently.

Water quality data is available for the following wells: 5731801, 5580, 5575, 5581, 136415, 136428, 241041, 359280, 398435, 425171, 425172, 425173, 425175. All wells are part of the Trinity Aquifer, which is the predominant aquifer in the area used for groundwater supply. Depth ranges from 30 to 1100 ft.

A review of the water quality indicates a range of water quality in the area. The total dissolved solids values averaged approximately 540 mg/L. Other values, including nitrate nitrogen and hardness were only available for well 5731801. The nitrate nitrogen was measured at 2.57 mg/L, and the hardness was measured at 359 mg/L.

Based on the data for the driller's logs, the wells were tested at various dates between 1985 and 2016. Given the similarity in data between the available water quality tests, it is reasonable to assume the water quality in this formation is generally similar for this area.

There are no anticipated impacts to the existing groundwater resources quality as a result of this proposed plan due to the measures required by rule and additional voluntary measures taken by the applicant to prevent effluent from reaching potential recharge areas. These include creek setbacks, weather stations to prevent irrigation during wet conditions and a reduced application rate.

- (B) Groundwater resources serving as sources or potential sources of domestic raw water supply by limiting wastewater application rates. Application rates will be limited to the values calculated in the attached water balance. In addition, moisture sensors will be installed to allow for preventive warning of saturated conditions and prevent irrigation in this condition.

Treated effluent will be held in in an onsite storage pond until routed to the spray irrigation units. The use of a larger than required pond from Phase 1 will ensure that there is ample storage capacity during extended wet periods.

Well Data (Available Water Quality)

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	5731801
County	Burnet
River Basin	Colorado
Groundwater Management Area	8
Regional Water Planning Area	K - Lower Colorado
Groundwater Conservation District	Central Texas GCD
Latitude (decimal degrees)	30.519444
Latitude (degrees minutes seconds)	30° 31' 10" N
Longitude (decimal degrees)	-98.176667
Longitude (degrees minutes seconds)	098° 10' 36" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	367ELBG - Ellenburger Group
Aquifer	Ellenburger-San Saba
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	775
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	620
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	0/0/1956
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leon Blagg
Driller	Unknown
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	Texas Water Development Board
Created Date	7/31/1985
Last Update Date	10/9/2009

Remarks	
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Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/11/1985 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Ellenburger Group

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		338	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		412.48	mg/L	
00910	CALCIUM (MG/L)		111	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		25	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		359	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		20	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.57	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		2	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.34		
00932	SODIUM, CALCULATED, PERCENT		8	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		15	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		790	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		18	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		411	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/gwdbprpt.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.

STATE OF TEXAS WELL REPORT for Tracking #5575

Owner:	K. LINVEL BAKER	Owner Well #:	1
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 34' 01" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 2/19/2002 Drilling End Date: 2/19/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

Distance to Septic Field or other
concentrated contamination (ft.): 300

Distance to Septic Tank (ft.): No Data

Method of Verification: ESTIMATED

Surface Completion: Surface Sleeve Installed

Water Level:	95 ft. below land surface on 2002-02-20	Measurement Method:	Unknown
Packers:	POOR BOY 24'		
Type of Pump:	No Data		
Well Tests:	Estimated	Yield:	5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
25, 68, 145, 165	360 TDS, 14 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	4	YELLOW CALICHE
4	12	RED SHALE & CLAY
12	40	BROWN SANDSTONE
25	40	WATER 0.5 GPM
40	68	RED CLAY WITH WHITE LIMESTONE
68	74	RED & WHITE SANDSTONE
68	74	WATER 2.5 GPM
74	95	GRAY LIMESTONE WITH SHALE STREAKS
95	123	GRAY CLAY & SHALE
123	134	RED CLAY
134	175	WHITE, RED & BROWN LIMESTONE
145	165	WATER 2 GPM
165	175	WATER TRACE
175	205	GRAY SHALE & CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

**Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #5580

Owner:	K. LINVEL BAKER	Owner Well #:	2
Address:	200 CAMP RIDGE ROAD MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	ON RIGHT 11.1 MILES EAST ON FM 1431 FROM HWY 281 MARBLE FALLS, TX 78654	Latitude:	30° 33' 58" N
		Longitude:	098° 08' 09" W
Well County:	Burnet	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 2/20/2002 Drilling End Date: 2/20/2002

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	24	2

Seal Method: GRAVITY CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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: 104 ft. below land surface on 2002-02-20 Measurement Method: Unknown

Packers: POOR BOY 24'

Type of Pump: No Data

Well Tests: Estimated Yield: 5 GPM

Water Quality:

Strata Depth (ft.)	Water Type
26, 49, 65, 123, 158	340 TDS, 13 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**

**DRAWER 217
HYE, TX 78635**

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	13	YELLOW CALICHE
13	26	RED SHALE
26	36	BROWN SAND
26	36	WATER 1.5 GPM
36	49	RED CLAY & SHALE
49	65	WATER 1 GPM
49	70	WHITE & RED SANDSTONE
65	70	WATER 1 GPM
70	75	YELLOW SHALE
75	94	GRAY LIMESTONE
94	110	GRAY CLAY & SHALE
110	123	BROWN CLAY
123	139	SANDY YELLOW, WHITE & RED LIMESTONE
123	139	WATER 1 GPM
139	152	RED CLAY
152	174	SANDY WHITE, YELLOW & RED LIMESTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 25 .265
5	NEW	PLASTIC SLOTTED	25 45 .265
5	NEW	PLASTIC SOLID	45 65 .265
5	NEW	PLASTIC SLOTTED	65 85 .265
5	NEW	PLASTIC SOLID	85 145 .265
5	NEW	PLASTIC SLOTTED	145 180 .265
5	NEW	PLASTIC SOLID	180 205 .265

158	174	WATER 0.5 GPM
174	182	BROWN SHALE
182	205	GRAY SHALE

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 #5581

Owner:	OLLIE BAKER	Owner Well #:	1
Address:	300 CR 344 MARBLE FALLS, TX 78654	Grid #:	57-31-6
Well Location:	300 CR 344 MARBLE FALLS, TX 78654	Latitude:	30° 33' 18" N
Well County:	Burnet	Longitude:	098° 09' 13" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/20/2002** Drilling End Date: **2/20/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	165

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	30	2

Seal Method: **GRAVITY CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

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: **124 ft. below land surface on 2002-02-20** Measurement Method: **Unknown**

Packers: **POOR BOY 30'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
39, 88, 105	460 TDS, 17 GRAINS

Chemical Analysis Made: **Yes**

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: **L & L DRILLING CO.**
DRAWER 217
HYE, TX 78635

Driller Name: **GREGORY A. SMITH**

License Number: **1595**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	BROWN TOPSOIL
1	39	RED CLAY
39	45	WATER 1 GPM
39	58	GRAY SANDSTONE
58	88	GRAY CLAY
88	105	WATER TRACE
88	122	RED, WHITE & YELLOW LIMESTONE
105	122	WATER TRACE
122	129	YELLOW SHALE & LIMESTONE
129	165	GRAY SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	NEW	PLASTIC SOLID	0 40 .265
5	NEW	PLASTIC SLOTTED	40 130 .265
5	NEW	PLASTIC SOLID	130 165 .265

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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 #136415

Owner: **Smithwick Cemetery Association**

Owner Well #: **1**

Address: **c/o 13116 E FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **CR 346
Marble Falls, TX 78654**

Latitude: **30° 33' 56" N**

Longitude: **098° 08' 36" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/18/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	197
	6.75	197	202

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	57	197	Gravel	#4 pea

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	57	20 cement

Seal Method: **trimmie pipe pressure
cemented**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **40 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
62	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	9	yellow caliche
9	15	yellow sand
15	22	red shale
22	29	yellow sand & gravel
29	58	red clay
58	67	brown sand
62	82	water 2 gpm
67	94	gray limestone
94	132	gray clay
132	151	brown gravel & red shale
151	189	yellow shale
189	202	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 60 0.265
5	new	plastic slotted	60 - 157 0.265
5	new	plastic solid	157 - 197 0.265

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 #136428

Owner: **Richard Giesecke**

Owner Well #: **1**

Address: **P.O. Box 36
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **Double Creek Road
Marble Falls, TX 78654**

Latitude: **30° 34' 14" N**

Longitude: **098° 09' 10" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/21/2008**

Drilling End Date: **2/21/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.62	0	20
	6.75	20	183

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	23	2 cement

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **200**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **estimated**

Surface Completion: **Pitless Adapter Used**

Water Level: **19 ft. below land surface on 2008-02-21**

Measurement Method: **Unknown**

Packers: **poor boy 23'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 12 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
16, 35, 53, 100, 120	400 TDS, 18 grains hardness

Chemical Analysis Made: **Yes**

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: **L & L Drilling Co.**

**P.O. Box 217
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	4	brown clay
4	19	brown sand
16	19	water 0.5 gpm
19	34	red clay
34	55	white & red limestone
35	36	water 2 gpm
53	54	water 5 gpm
55	77	gray & white limestone
77	95	gray clay
95	97	red clay
97	159	white, yellow & brown limestone
100	120	water 2 gpm
120	140	water 3 gpm
159	165	yellow shale
165	183	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	+2 - 33 0.265
5	new	plastic slotted	33 - 93 0.265
5	new	plastic solid	93 - 103 0.265
5	new	plastic slotted	103 - 163 0.265
5	new	plastic solid	163 - 183 0.265

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 #241041

Owner: **Travis Spaulding**

Owner Well #: **No Data**

Address: **P.O. Box 458
Spicewood, TX 78669**

Grid #: **57-31-6**

Well Location: **.6 mi. E of Smithwick Cemetery on FM
1431; .2 mi. W by creek
TX**

Latitude: **30° 34' 04" N**

Longitude: **098° 08' 22" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/12/2011**

Drilling End Date: **1/12/2011**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
9	0	40
6.75	40	41
6	41	70

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	3	1 Cement
3	40	3 Benseal

Seal Method: **Pressure**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **39 ft. below land surface on 2011-01-12**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **60**

Well Tests: **Jetted**

Yield: 3 GPM

Water Quality:

Strata Depth (ft.)	Water Type
56 - 59	good (680 ppmTDS)

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: **Virdell Drilling Inc.**
111 E. Grayson St.
Llano, TX 78643

Driller Name: **Taylor Virdell Jr.**

License Number: **1900**

Apprentice Name: **James Caleb Virdell**

Apprentice Number: **57668**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	10	Brown Clay & Gravel
10	13	Gravel & Sand
13	21	Red Clay
21	37	Brown Clay
37	60	Brown & Gray Limestone
60	68	Gray Limestone
68	70	Gray Shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" N PVC +2 - 41		sch 40	

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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 #359280

Owner: **Corix Utilities** Owner Well #: **No Data**
Address: **6836 Bee Cave Rd. Ste 209** Grid #: **57-31-9**
Austin, TX 78746
Well Location: **Golf Course Drive** Latitude: **30° 31' 16" N**
Spicewood, TX 78669 Longitude: **098° 08' 22" W**
Well County: **Burnet** Elevation: **645 ft. above sea level**

****This well has been plugged****

Plugging Report Tracking #93544

Type of Work: **New Well** Proposed Use: **Test Well**

Drilling Start Date: **11/4/2013** Drilling End Date: **4/7/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	36

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Annular Seal Data: **No Data**

Seal Method: **NA**

Sealed By: **Unknown**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **5 ft. below land surface on 2013-11-06** Measurement Method: **Unknown**

Packers: **Gravel**

Type of Pump: **Test** Pump Depth (ft.): **0**

Well Tests: **Pump** **Yield: 125 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
5-36	Good TDS 500

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: **Whisenant & Lyle Water Services**

**PO Box 525
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Apprentice Number: **58603**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	Brown Clay
5	10	Brown Clay Fine gravel
10	36	Medium gravel

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
8"	New	PVC-SDR 17IB	0 to 16
8"	New	PVC-17 Slotted .035	16 to 36

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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 #398435

Owner: **John Lookenbach**

Owner Well #: **No Data**

Address: **10150 FM 1431
Marble Falls, TX 78654**

Grid #: **57-31-6**

Well Location: **10150 FM 1431
Burnet, TX 78611**

Latitude: **30° 33' 51" N**

Longitude: **098° 09' 27" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2015**

Drilling End Date: **6/29/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	15
	6.25	15	230

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	20	4 Portland

Seal Method: **Slurry**

Distance to Property Line (ft.): **50+**

Sealed By: **Apex Drilling INC.**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 165,160,30,20**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 3 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
165-210	Trinity TDS 720

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan LS
15	32	Gray Tan LS
32	95	Tan LS W/ Sand
95	121	Red Clay
121	147	Gray Tan LS
147	165	Gray Clay
165	210	Gravel
210	225	Tan Clay
225	230	Gray Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5 OD)	New	PVC	+2' to 170' SDR17
4.5" (5 OD)	New	Screen	170' to 210' .035
4.5" (5 OD)	New	PVC	210' to 230 SDR17

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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 #425171

Owner: **Shookies, LP**

Owner Well #: **1**

Address: **407 Meadow Run Dr.
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 41" N**

Longitude: **098° 08' 57" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/10/2016**

Drilling End Date: **6/10/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	20
6.25	20	140

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.
Burlap/Neoprene at 25 ft.
Burlap/Neoprene at 74 ft.
Burlap/Neoprene at 80 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
80 - 120	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	6	Sandy Gravel
6	8	Tan Clay
8	10	Red Clay
10	20	Tan LS Red Clay
20	27	Tan Sand
27	35	Tan LS
35	40	Fine Gray Sand w/ Clay
40	43	Gray SS
43	80	Gray Tan LS
80	81	Red SS
81	113	Gravel
113	117	Red Clay
117	119	Gravel
119	120	Turquoise Clay
120	140	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	80
4.5	Screen	New Plastic (PVC)	.035	80	120
4.5	Blank	New Plastic (PVC)	SDR17	120	140

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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 #425172

Owner:	Shookies, LP	Owner Well #:	2
Address:	407 Meadow Run Dr. Friendswood, TX 77546	Grid #:	57-31-6
Well Location:	10516 E FM 1431 Marble Falls, TX 78654	Latitude:	30° 33' 56" N
Well County:	Burnet	Longitude:	098° 09' 07" W
Number of Wells Drilled:	5	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: **6/13/2016** Drilling End Date: **6/13/2016**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8	0	20
	6.25	20	150

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	17	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion:	Surface Sleeve Installed	Surface Completion by Driller
---------------------	---------------------------------	--------------------------------------

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 25 ft.
Burlap / Neoprene at 28 ft.
Burlap / Neoprene at 95 ft.
Burlap / Neoprene at 98 ft.
Burlap / Neoprene at 100 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.2 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
20 - 130	Trinity - TDS 620

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Red SS
2	10	Tan Sand
10	17	Tan LS Red Clay
17	20	Gray Sand w/ Clay
20	22	Gravel
22	41	Red Clay
41	50	Tan LS
50	95	Gray Tan LS
95	106	Red SS
106	130	Gravel
130	131	Clay
131	150	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	18
4.5	Screen	New Plastic (PVC)	.035	18	30
4.5	Blank	New Plastic (PVC)	SDR17	30	110
4.5	Screen	New Plastic (PVC)	.035	110	130
4.5	Blank	New Plastic (PVC)	SDR17	130	150

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #425173

Owner: **Shookies, LP**

Owner Well #: **3**

Address: **407 Meadow Run Dr
Friendswood, TX 77546**

Grid #: **57-31-6**

Well Location: **10516 E FM 1431
Marble Falls, TX 78654**

Latitude: **30° 33' 48" N**

Longitude: **098° 09' 05" W**

Well County: **Burnet**

Elevation: **No Data**

Number of Wells Drilled: **5**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/16/2016**

Drilling End Date: **6/16/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	155

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	15	Portland 3 Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **50**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 15 ft.
Burlap / Neoprene at 55 ft.
Burlap / Neoprene at 115 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 5.8 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
15 - 134	Trinity - TDS 640

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Red SS
15	27	Sand & Gravel
27	46	Red Clay
46	58	Tan LS W/ Sand
58	103	Gray Tan LS
103	107	Gravel
107	116	Red SS
116	134	Gravel
134	134	Turquoise Clay
135	155	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	15
4.5	Screen	New Plastic (PVC)	.035	15	35
4.5	Blank	New Plastic (PVC)	SDR17	35	55
4.5	Screen	New Plastic (PVC)	.035	55	75
4.5	Blank	New Plastic (PVC)	SDR17	75	115
4.5	Screen	New Plastic (PVC)	.035	115	135
4.5	Blank	New Plastic (PVC)	SDR17	135	155

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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 #425175

Owner: **Shookies, LP**
Address: **407 Meadow Run Dr.
Friendswood, TX 77546**
Well Location: **10516 E FM 1431
Marble Falls, TX 78654**
Well County: **Burnet**
Number of Wells Drilled: **5**

Owner Well #: **5**
Grid #: **57-31-6**
Latitude: **30° 33' 35" N**
Longitude: **098° 09' 07" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/22/2016**

Drilling End Date: **6/22/2016**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
8	0	18
6.25	18	160

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	18	Portland 4 Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

Distance to Septic Field or other
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap / Neoprene at 18 ft.
Burlap / Neoprene at 20 ft.
Burlap / Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
18 - 140	Trinity - TDS 740

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: **Apex Drilling, Inc.**
P.O. Box 867
Marble Falls, TX 78654

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	18	Sandy Loan
18	21	Sand & Gravel
21	35	Tan LS W/ Sand
35	48	Red Clay
48	58	Tan LS W/ Sand
58	105	Gray LS
105	107	Red SS
107	140	Gravel
140	141	Turquoise Clay
141	160	Tan Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	20
4.5	Screen	New Plastic (PVC)	.035	20	40
4.5	Blank	New Plastic (PVC)	SDR17	40	120
4.5	Screen	New Plastic (PVC)	.035	120	140
4.5	Blank	New Plastic (PVC)	SDR17	140	160

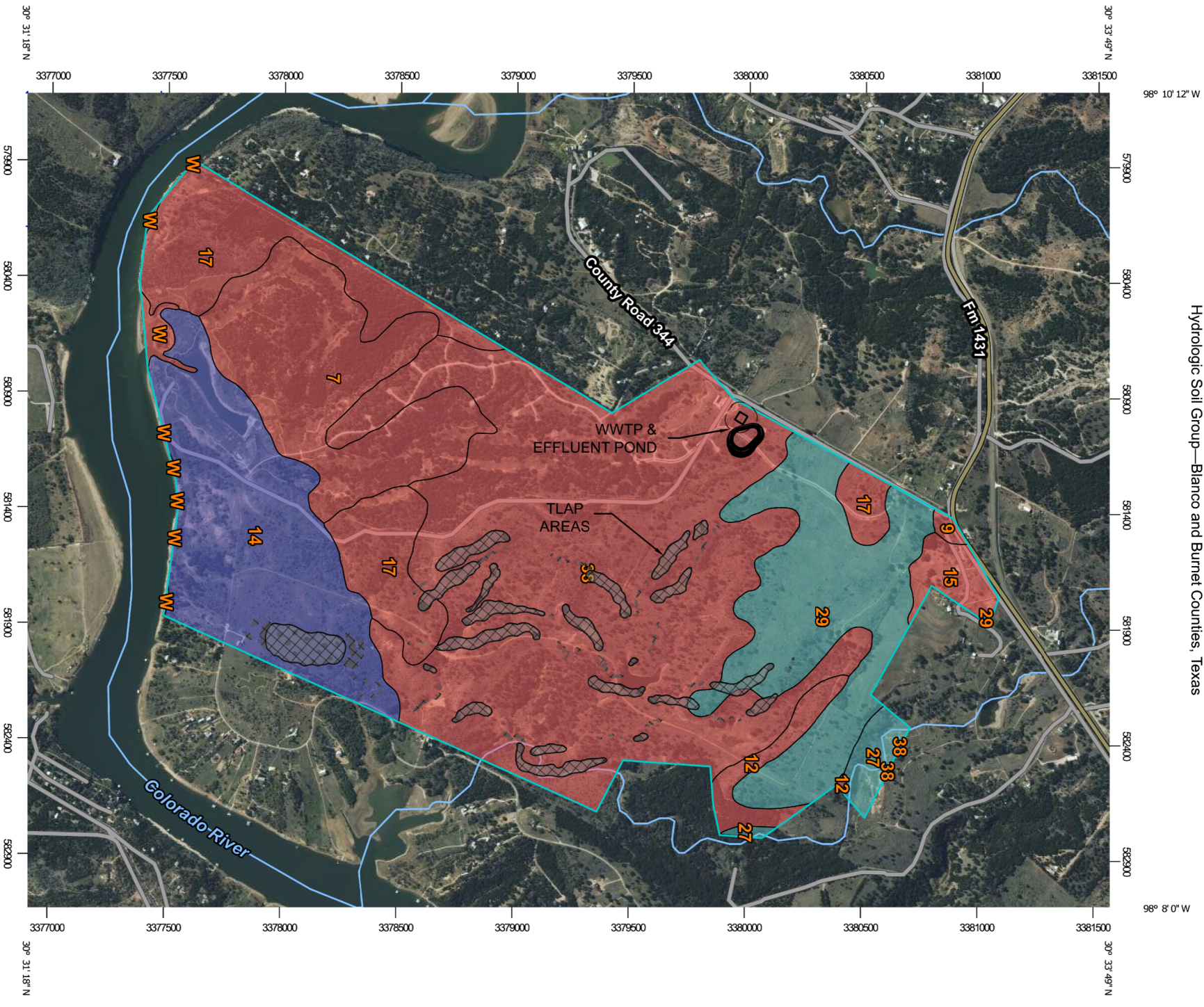
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Hydrologic Soil Group—Blanco and Burnet Counties, Texas



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

4/23/2024
Page 1 of 4

MAP LEGEND

Area of Interest (AOI)









Area of Interest (AOI)

Soils

Soil Rating Polygons





-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Lines


-  A
-  A/D
-  B
-  B/D
-  C
-  C/D
-  D
-  Not rated or not available

Soil Rating Points






-  A
-  A/D
-  B
-  B/D

-  C
-  C/D
-  D
-  Not rated or not available


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 1:31,700.

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: Blanco and Burnet Counties, Texas

Survey Area Data: Version 20, Sep 5, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 15, 2019—Dec 19, 2019

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.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
7	Brackett-Real association, 10 to 30 percent slopes	D	179.1	12.4%
9	Doss silty clay, moist, 1 to 5 percent slopes	D	3.1	0.2%
12	Eckrant-Rock outcrop association, 8 to 30 percent slopes	D	23.7	1.6%
14	Heaton loamy fine sand, 1 to 5 percent slopes	B	216.6	15.0%
15	Hensley loam, 1 to 3 percent slopes	D	20.9	1.4%
17	Hensley gravelly loam, 1 to 8 percent slopes	D	159.5	11.0%
27	Lewisville clay loam, 1 to 3 percent slopes	C	19.2	1.3%
29	Luckenbach clay loam, 1 to 3 percent slopes	C	183.5	12.7%
38	Purves clay, 1 to 8 percent slopes	D	632.3	43.7%
W	Water	D	8.3	0.6%
Totals for Area of Interest			1,446.2	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Soil Features

This table gives estimates of various soil features. The estimates are used in land use planning that involves engineering considerations.

A *restrictive layer* is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers. The table indicates the hardness and thickness of the restrictive layer, both of which significantly affect the ease of excavation. *Depth to top* is the vertical distance from the soil surface to the upper boundary of the restrictive layer.

Subsidence is the settlement of organic soils or of saturated mineral soils of very low density. Subsidence generally results from either desiccation and shrinkage, or oxidation of organic material, or both, following drainage. Subsidence takes place gradually, usually over a period of several years. The table shows the expected initial subsidence, which usually is a result of drainage, and total subsidence, which results from a combination of factors.

Potential for frost action is the likelihood of upward or lateral expansion of the soil caused by the formation of segregated ice lenses (frost heave) and the subsequent collapse of the soil and loss of strength on thawing. Frost action occurs when moisture moves into the freezing zone of the soil. Temperature, texture, density, saturated hydraulic conductivity (Ksat), content of organic matter, and depth to the water table are the most important factors considered in evaluating the potential for frost action. It is assumed that the soil is not insulated by vegetation or snow and is not artificially drained. Silty and highly structured, clayey soils that have a high water table in winter are the most susceptible to frost action. Well drained, very gravelly, or very sandy soils are the least susceptible. Frost heave and low soil strength during thawing cause damage to pavements and other rigid structures.

Risk of corrosion pertains to potential soil-induced electrochemical or chemical action that corrodes or weakens uncoated steel or concrete. The rate of corrosion of uncoated steel is related to such factors as soil moisture, particle-size distribution, acidity, and electrical conductivity of the soil. The rate of corrosion of concrete is based mainly on the sulfate and sodium content, texture, moisture content, and acidity of the soil. Special site examination and design may be needed if the combination of factors results in a severe hazard of corrosion. The steel or concrete in installations that intersect soil boundaries or soil layers is more susceptible to corrosion than the steel or concrete in installations that are entirely within one kind of soil or within one soil layer.

For uncoated steel, the risk of corrosion, expressed as *low*, *moderate*, or *high*, is based on soil drainage class, total acidity, electrical resistivity near field capacity, and electrical conductivity of the saturation extract.

For concrete, the risk of corrosion also is expressed as *low*, *moderate*, or *high*. It is based on soil texture, acidity, and amount of sulfates in the saturation extract.

Report—Soil Features

Soil Features—Blanco and Burnet Counties, Texas									
Map symbol and soil name	Restrictive Layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		<i>Low-RV-High</i>	<i>Range</i>		<i>Low-High</i>	<i>Low-High</i>			
		<i>In</i>	<i>In</i>		<i>In</i>	<i>In</i>			
7—Brackett-Real association, 10 to 30 percent slopes									
Brackett	Paralithic bedrock	10-14-20	—	Weakly coherent	0	0	None	Moderate	Low
Real	Paralithic bedrock	8- 15-19	—	Weakly coherent	0	0	None	Moderate	Low
9—Doss silty clay, moist, 1 to 5 percent slopes									
Doss	Paralithic bedrock	11-17-20	—	Weakly coherent	0	0	None	High	Low
12—Eckrant-Rock outcrop association, 8 to 30 percent slopes									
Eckrant	Lithic bedrock	4- 12-20	—	Indurated	0	0	None	High	Low
Rock outcrop	Lithic bedrock	0- 0-2	—	Indurated	0	0			
14—Heaton loamy fine sand, 1 to 5 percent slopes									
Heaton		—	—		0	0	None	Moderate	Low

Soil Features--Blanco and Burnet Counties, Texas									
Map symbol and soil name	Restrictive Layer				Subsidence		Potential for frost action	Risk of corrosion	
	Kind	Depth to top	Thickness	Hardness	Initial	Total		Uncoated steel	Concrete
		<i>Low-RV-High</i>	<i>Range</i>		<i>Low-High</i>	<i>Low-High</i>			
15—Hensley loam, 1 to 3 percent slopes									
Hensley	Lithic bedrock	10-15-20	—	Indurated	0	0	None	Moderate	Low
17—Hensley gravelly loam, 1 to 8 percent slopes									
Hensley	Lithic bedrock	10-18-20	—	Indurated	0	0	None	High	Low
27—Lewisville clay loam, 1 to 3 percent slopes									
Lewisville		—	—		0	0	None	High	Low
29—Luckenbach clay loam, 1 to 3 percent slopes									
Luckenbach		—	—		0	0	None	High	Low
38—Purves clay, 1 to 8 percent slopes									
Purves	Lithic bedrock	8- 16-20	—	Indurated	0	0	None	High	Low
W—Water									
Water		—	—		—	—			

Data Source Information

Soil Survey Area: Blanco and Burnet Counties, Texas

Survey Area Data: Version 20, Sep 5, 2023



Physical Soil Properties

This table shows estimates of some physical characteristics and features that affect soil behavior. These estimates are given for the layers of each soil in the survey area. The estimates are based on field observations and on test data for these and similar soils.

Depth to the upper and lower boundaries of each layer is indicated.

Particle size is the effective diameter of a soil particle as measured by sedimentation, sieving, or micrometric methods. Particle sizes are expressed as classes with specific effective diameter class limits. The broad classes are sand, silt, and clay, ranging from the larger to the smaller.

Sand as a soil separate consists of mineral soil particles that are 0.05 millimeter to 2 millimeters in diameter. In this table, the estimated sand content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Silt as a soil separate consists of mineral soil particles that are 0.002 to 0.05 millimeter in diameter. In this table, the estimated silt content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

Clay as a soil separate consists of mineral soil particles that are less than 0.002 millimeter in diameter. In this table, the estimated clay content of each soil layer is given as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter.

The content of sand, silt, and clay affects the physical behavior of a soil. Particle size is important for engineering and agronomic interpretations, for determination of soil hydrologic qualities, and for soil classification.

The amount and kind of clay affect the fertility and physical condition of the soil and the ability of the soil to adsorb cations and to retain moisture. They influence shrink-swell potential, saturated hydraulic conductivity (Ksat), plasticity, the ease of soil dispersion, and other soil properties. The amount and kind of clay in a soil also affect tillage and earthmoving operations.

Moist bulk density is the weight of soil (oven-dry) per unit volume. Volume is measured when the soil is at field moisture capacity, that is, the moisture content at 1/3- or 1/10-bar (33kPa or 10kPa) moisture tension. Weight is determined after the soil is dried at 105 degrees C. In the table, the estimated moist bulk density of each soil horizon is expressed in grams per cubic centimeter of soil material that is less than 2 millimeters in diameter. Bulk density data are used to compute linear extensibility, shrink-swell potential, available water capacity, total pore space, and other soil properties. The moist bulk density of a soil indicates the pore space available for water and roots. Depending on soil texture, a bulk density of more than 1.4 can restrict water storage and root penetration. Moist bulk density is influenced by texture, kind of clay, content of organic matter, and soil structure.

Saturated hydraulic conductivity (Ksat) refers to the ease with which pores in a saturated soil transmit water. The estimates in the table are expressed in terms of micrometers per second. They are based on soil characteristics observed in the field, particularly structure, porosity, and texture. Saturated hydraulic conductivity (Ksat) is considered in the design of soil drainage systems and septic tank absorption fields.

Available water capacity refers to the quantity of water that the soil is capable of storing for use by plants. The capacity for water storage is given in inches of water per inch of soil for each soil layer. The capacity varies, depending on soil properties that affect retention of water. The most important properties are the content of organic matter, soil texture, bulk density, and soil structure. Available water capacity is an important factor in the choice of plants or crops to be grown and in the design and management of irrigation systems. Available water capacity is not an estimate of the quantity of water actually available to plants at any given time.

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported in the table as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

Linear extensibility is used to determine the shrink-swell potential of soils. The shrink-swell potential is low if the soil has a linear extensibility of less than 3 percent; moderate if 3 to 6 percent; high if 6 to 9 percent; and very high if more than 9 percent. If the linear extensibility is more than 3, shrinking and swelling can cause damage to buildings, roads, and other structures and to plant roots. Special design commonly is needed.

Organic matter is the plant and animal residue in the soil at various stages of decomposition. In this table, the estimated content of organic matter is expressed as a percentage, by weight, of the soil material that is less than 2 millimeters in diameter. The content of organic matter in a soil can be maintained by returning crop residue to the soil.

Organic matter has a positive effect on available water capacity, water infiltration, soil organism activity, and tilth. It is a source of nitrogen and other nutrients for crops and soil organisms.

Erosion factors are shown in the table as the K factor (Kw and Kf) and the T factor. Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and Ksat. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

Erosion factor Kw indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

Erosion factor Kf indicates the erodibility of the fine-earth fraction, or the material less than 2 millimeters in size.

Erosion factor T is an estimate of the maximum average annual rate of soil erosion by wind and/or water that can occur without affecting crop productivity over a sustained period. The rate is in tons per acre per year.

Wind erodibility groups are made up of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible. The groups are described in the "National Soil Survey Handbook."

Wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. (<http://soils.usda.gov>)

Report—Physical Soil Properties

Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/in</i>	<i>Pct</i>	<i>Pct</i>					
7—Brackett-Real association, 10 to 30 percent slopes														
Brackett	0-6	20-34- 45	20-36- 53	27-30- 35	1.30-1.40 -1.50	4.00-9.00-14.00	0.09-0.13-0.16	1.2- 2.6- 4.5	1.0- 2.0- 4.0	.15	.20	2	5	56
	6-14	20-34- 50	15-36- 53	18-30- 35	1.30-1.43 -1.55	4.00-9.00-14.00	0.09-0.13-0.16	0.5- 2.3- 4.3	0.5- 1.3- 2.0	.10	.20			
	14-60	—	—	—	—	0.42-7.20-14.00	—	—	—					
Real	0-8	20-35- 45	28-35- 52	27-30- 35	1.25-1.40 -1.55	4.00-9.00-14.00	0.04-0.08-0.10	1.2- 2.5- 3.8	2.0- 6.0- 9.0	.10	.17	2	5	56
	8-15	20-35- 45	15-35- 53	22-30- 40	1.25-1.40 -1.55	4.00-9.00-14.00	0.04-0.08-0.10	0.2- 1.1- 3.3	1.0- 4.5- 8.0	.02	.17			
	15-60	—	—	—	—	0.42-7.70-14.00	—	—	—					
9—Doss silty clay, moist, 1 to 5 percent slopes														
Doss	0-9	5- 7- 20	40-49- 55	40-44- 48	1.25-1.35 -1.45	1.40-2.70-4.00	0.12-0.14-0.16	3.0- 5.4- 6.7	1.0- 2.0- 3.0	.28	.28	2	4	86
	9-17	5- 7- 30	35-49- 60	35-44- 48	1.20-1.25 -1.45	1.40-2.70-4.00	0.12-0.14-0.16	3.0- 4.4- 6.3	1.0- 2.0- 3.0	.28	.28			
	17-80	—	—	—	—	0.42-7.20-14.00	—	—	—					

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
12—Eckrant-Rock outcrop association, 8 to 30 percent slopes														
Eckrant	0-7	2-18- 25	30-40- 52	38-42- 50	1.05-1.15 -1.40	1.40-2.70-4.00	0.03-0.09-0.12	1.8- 3.5- 6.2	2.0- 6.0-12.0	.05	.15	1	6	48
	7-12	2-18- 25	30-37- 54	40-45- 55	1.05-1.15 -1.40	1.40-2.70-4.00	0.03-0.09-0.12	1.2- 4.0- 5.9	2.0- 5.0- 8.0	.02	.15			
	12-80	—	—	—	—	0.42-2.70-14.00	—	—	—					
Rock outcrop	0-80	—	—	—	—	0.42-71.00-141.00	—	—	—				8	0
14—Heaton loamy fine sand, 1 to 5 percent slopes														
Heaton	0-22	72-80- 89	2-12- 26	2- 8- 14	1.58-1.59 -1.60	42.00-91.50-141.00	0.05-0.08-0.11	0.0- 0.4- 0.9	0.5- 0.8- 1.0	.15	.15	5	2	134
	22-68	45-55- 74	2-17- 28	24-28- 35	1.59-1.61 -1.62	4.00-9.00-14.00	0.10-0.13-0.15	1.7- 2.1- 2.8	0.1- 0.3- 0.5	.20	.20			
	68-80	45-55- 74	2-17- 28	24-28- 35	1.59-1.61 -1.62	4.00-9.00-14.00	0.10-0.13-0.15	1.6- 2.1- 2.8	0.1- 0.3- 0.5	.20	.20			

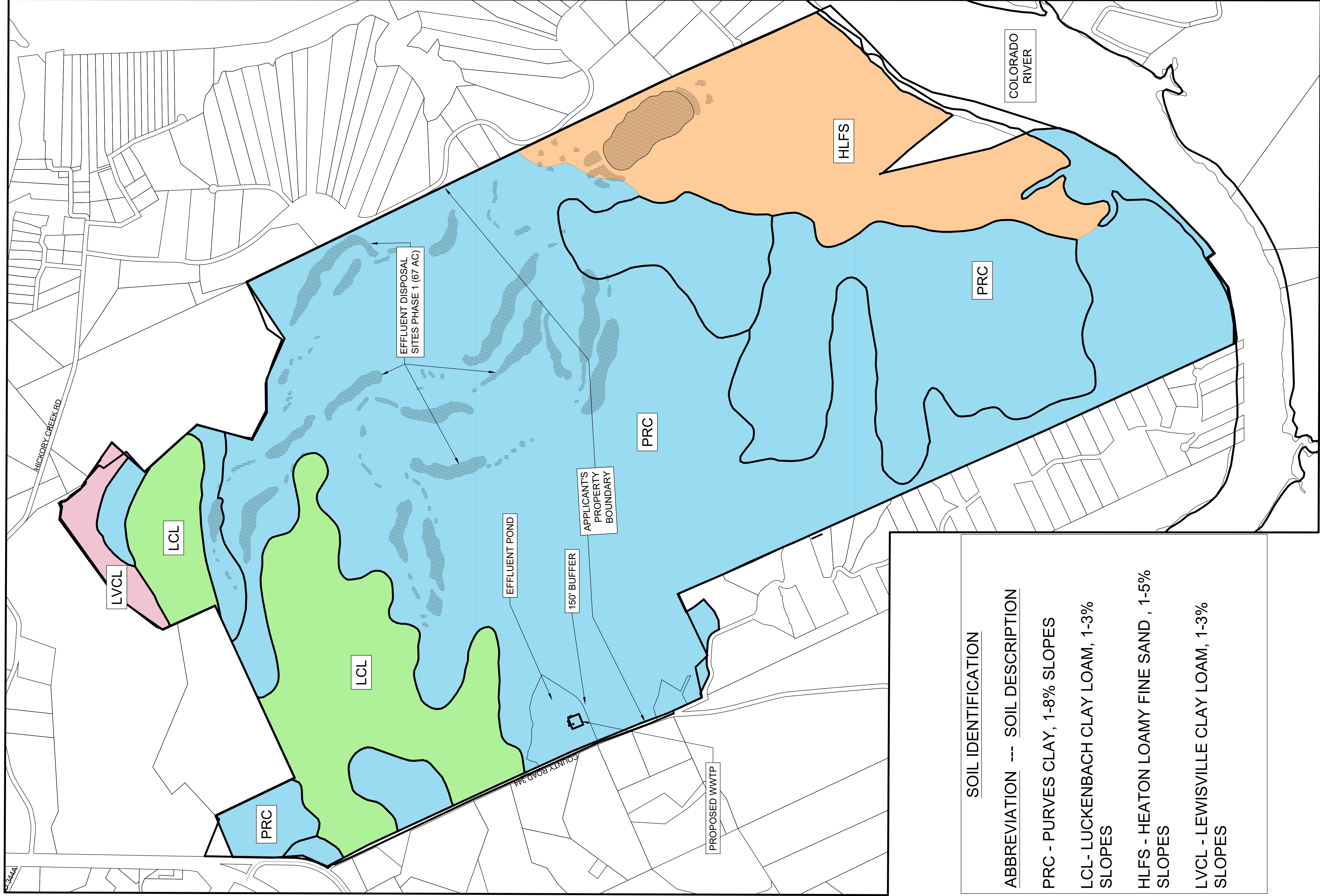
Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
15—Hensley loam, 1 to 3 percent slopes														
Hensley	0-5	23-39- 52	28-39- 50	15-22- 27	1.30-1.42 -1.49	4.00-9.00-14.00	0.13-0.16-0. 20	1.0- 1.7- 3.0	0.5- 1.3- 2.0	.43	.43	1	7	38
	5-15	5-30- 45	2-32- 45	35-38- 55	1.43-1.50 -1.56	0.42-0.91-1.40	0.12-0.14-0. 20	3.5- 4.3- 8.7	0.1- 0.6- 1.0	.24	.32			
	15-60	—	—	—	—	0.42-2.70-14.00	—	—	—					
17—Hensley gravelly loam, 1 to 8 percent slopes														
Hensley	0-5	23-39- 52	28-39- 50	15-22- 27	1.30-1.42 -1.49	4.00-9.00-14.00	0.13-0.16-0. 20	1.0- 1.6- 2.8	0.5- 1.3- 2.0	.28	.43	1	7	38
	5-18	5-27- 45	2-28- 45	35-45- 55	1.38-1.47 -1.56	0.42-0.91-1.40	0.12-0.14-0. 20	4.0- 6.2- 8.7	0.1- 0.6- 1.0	.28	.28			
	18-60	—	—	—	—	0.42-2.70-14.00	—	—	—					
27—Lewisville clay loam, 1 to 3 percent slopes														
Lewisville	0-18	20-31- 40	20-33- 53	27-36- 40	1.25-1.30 -1.40	1.40-2.70-4.00	0.16-0.18-0. 20	2.5- 4.7- 6.0	1.0- 2.0- 3.0	.24	.24	5	4L	86
	18-58	5-30- 40	20-33- 65	30-37- 45	1.30-1.35 -1.45	1.40-2.70-4.00	0.14-0.16-0. 18	1.8- 3.7- 5.9	1.0- 1.5- 2.0	.32	.32			
	58-80	5-29- 40	20-32- 65	30-39- 50	1.30-1.40 -1.50	1.40-2.70-4.00	0.14-0.16-0. 18	1.4- 3.6- 6.7	0.5- 0.8- 1.0	.32	.32			

Physical Soil Properties—Blanco and Burnet Counties, Texas														
Map symbol and soil name	Depth	Sand	Silt	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensibility	Organic matter	Erosion factors			Wind erodibility group	Wind erodibility index
										Kw	Kf	T		
	<i>In</i>	<i>Pct</i>	<i>Pct</i>	<i>Pct</i>	<i>g/cc</i>	<i>micro m/sec</i>	<i>In/In</i>	<i>Pct</i>	<i>Pct</i>					
29— Luckenbach clay loam, 1 to 3 percent slopes														
Luckenbach	0-17	20-35- 45	20-34- 53	27-31- 35	1.20-1.25 -1.45	4.00-9.00-14.00	0.15-0.17-0. 18	3.7- 4.8- 5.9	1.0- 2.0- 3.0	.28	.28	5	6	48
	17-25	15-26- 45	10-29- 45	35-45- 55	1.30-1.35 -1.55	1.40-2.70-4.00	0.13-0.16-0. 18	4.4- 7.2-10.0	1.0- 1.5- 2.0	.20	.20			
	25-36	15-26- 45	10-31- 45	35-43- 55	1.30-1.40 -1.55	1.40-2.70-4.00	0.13-0.16-0. 18	3.9- 6.3- 9.5	0.5- 1.0- 1.5	.24	.24			
	36-80	15-29- 45	10-32- 50	30-39- 50	1.40-1.50 -1.60	1.40-2.70-4.00	0.12-0.15-0. 18	1.7- 4.1- 7.1	0.1- 0.4- 0.8	.28	.28			
38—Purves clay, 1 to 8 percent slopes														
Purves	0-9	8-25- 40	5-28- 40	40-47- 55	1.10-1.27 -1.40	0.42-0.91-1.40	0.08-0.15-0. 18	3.7- 8.0-11.4	1.0- 3.0- 5.0	.20	.20	1	4	86
	9-16	8-26- 40	6-29- 52	40-45- 55	1.10-1.30 -1.45	0.42-0.91-1.40	0.08-0.12-0. 15	2.7- 5.6-11.1	1.0- 2.5- 4.0	.10	.24			
	16-40	—	—	—	—	0.42-2.70-14.00	—	—	—					
W—Water														
Water	—	—	—	—	—	—	—	—	—					

Data Source Information

Soil Survey Area: Blanco and Burnet Counties, Texas
 Survey Area Data: Version 20, Sep 5, 2023





SOIL IDENTIFICATION

ABBREVIATION --- SOIL DESCRIPTION

PRC - PURVES CLAY, 1-8% SLOPES

LCL- LUCKENBACH CLAY LOAM, 1-3% SLOPES

HLFS - HEATON LOAMY FINE SAND , 1-5% SLOPES

LVCL - LEWISVILLE CLAY LOAM, 1-3% SLOPES

APPENDIX Q

ENGINEERING REPORT WITH WATER BALANCE AND STORAGE VOLUME CALCULATIONS

DOMESTIC WORKSHEET 3.1 SURFACE LAND DISPOSAL OF EFFLUENT

ENGINEERING REPORT

Water balance and storage volume calculations have been completed for flows of all phases. The following is a summary providing references/sources for the data used to develop the tables.

Water Balance Table Column	Assumptions and References/Sources
Column 2: Average Rainfall	Data obtained from Texas Water Development Board Quadrangle 809.
Column 3: Average Runoff	Curve number (CN) was obtained from SCS Technical Release No. 55. A curve number of 75 was used, considering soil type.
Column 4: Average Infiltrated Rainfall	Obtained by subtracting average runoff from average rainfall.
Column 5: Evapotranspiration	Data obtained from Texas Board of Water Engineers, Bulletin 6015: Consumptive Use of Water by Major Crops in Texas, Table 5. Used 90% of the listed values for alfalfa in area 7C.
Column 6: Required Leaching	Ce (electrical conductivity) – a value of 2 mmhos/cm was used. Ci (maximum allowable conductivity of soil) = 8 based on 30 TAC 309.20.
Column 7: Total Water Needs	Obtained by adding evapotranspiration and required leaching.
Column 8: Effluent Needed in Root Zone	Obtained by subtracting average infiltrated rainfall from total water needs (assume zero if value is less than zero).
Column 9: Net Evaporation from Reservoir Surface	Data obtained from Texas Water Development Board Quadrangle 809.
Column 10: Effluent Applied to Land	Obtained by dividing the effluent needed in root zone by the irrigation efficiency, K, assumed to be 0.85 or 85%.
Column 11: Consumption from Reservoir	Obtained by adding net evaporation and effluent applied to land.
Column 15: Rainfall (Maximum)	Data on maximum rainfall year in the past 25 years was obtained from Texas Water Development Board Quadrangle 809 Precipitation (inches) from 1998 to 2022, 51.84 in 2007. The total was distributed proportionally to monthly average rainfall.
Column 16: Runoff (Maximum)	Calculated as shown above for Column 3 using maximum rainfall numbers from Column 14.
Column 17: Infiltrated Rainfall	Obtained by subtracting maximum runoff (Column 15) from maximum rainfall (Column 14).
Column 18: Available Water	Obtained by adding effluent received (Column 13) and infiltrated rainfall (Column 16).
Column 20: Minimum Net Evaporation	Data on minimum net evaporation year in the past 25 years was obtained from Texas Water Development Board Quadrangle 809, Monthly Evaporation (inches) from 1998 to 2022.
Column 21: Storage	Obtained by subtracting lowest annual net evaporation (Column 20) from effluent received, then subtracting total water needs (Column 7) – infiltrated rainfall (Column 17) divided by k (irrigation efficiency of 0.85).

	<p>If total water needs (Column 7) – infiltrated rainfall (Column 17) divided by k is <0, then storage = effluent received -Minimum Net evaporation.</p>
Column 22: Accumulated Storage	<p>Summation beginning with the first consecutive month of possible values from Column 21.</p>

Smithwick Tract TLAP Summary

LJA Engineering, Inc.

Apr-24

MONTHLY WATER BALANCE, TABLE 1
(UNITS IN INCHES)

1	a 2	b 3	Ri 4	c 5	d 6	7	8	e 9	f 10	g 11
Month	Avg. Rain	Avg. Runoff	Avg. Infiltrated Rainfall	Evapotran- spiration	Required Leaching	Total Water Needs	Effluent Needed in Root Zone	Net Evaporation from Reservoir Surface	Effluent Applied to Land	Consumption from Reservoir
January	1.78	0.31	1.47	1.35	0.0000	1.3500	0.0000	-0.0052	0.0000	-0.0052
February	1.54	0.21	1.33	1.35	0.0038	1.3538	0.0229	0.0031	0.0269	0.0301
March	2.57	0.75	1.82	3.42	0.3196	3.7396	1.9176	0.0530	2.2560	2.3090
April	2.09	0.47	1.62	4.05	0.4857	4.5357	2.9141	0.0652	3.4284	3.4936
May	4.13	1.85	2.27	7.47	1.0393	8.5093	6.2355	0.0164	7.3359	7.3523
June	2.76	0.87	1.89	7.74	1.1696	8.9096	7.0178	0.1091	8.2562	8.3654
July	2.21	0.54	1.68	8.01	1.2668	9.2768	7.6008	0.1988	8.9422	9.1410
August	2.02	0.43	1.59	5.04	0.6906	5.7306	4.1439	0.1899	4.8752	5.0650
September	3.07	1.08	2.00	6.21	0.8428	7.0528	5.0571	0.0754	5.9495	6.0249
October	3.47	1.36	2.11	4.86	0.5498	5.4098	3.2986	0.0178	3.8808	3.8985
November	2.42	0.66	1.77	2.43	0.1330	2.5630	0.7978	0.0097	0.9386	0.9483
December	1.36	0.14	1.22	1.08	0.0000	1.0800	0.0000	-0.0042	0.0000	-0.0042
TOTAL	29.42	8.66	20.76	53.01	6.50	59.51	39.01	0.73	45.89	46.62

Smithwick Tract TLAP Summary

LJA Engineering, Inc.

Apr-24

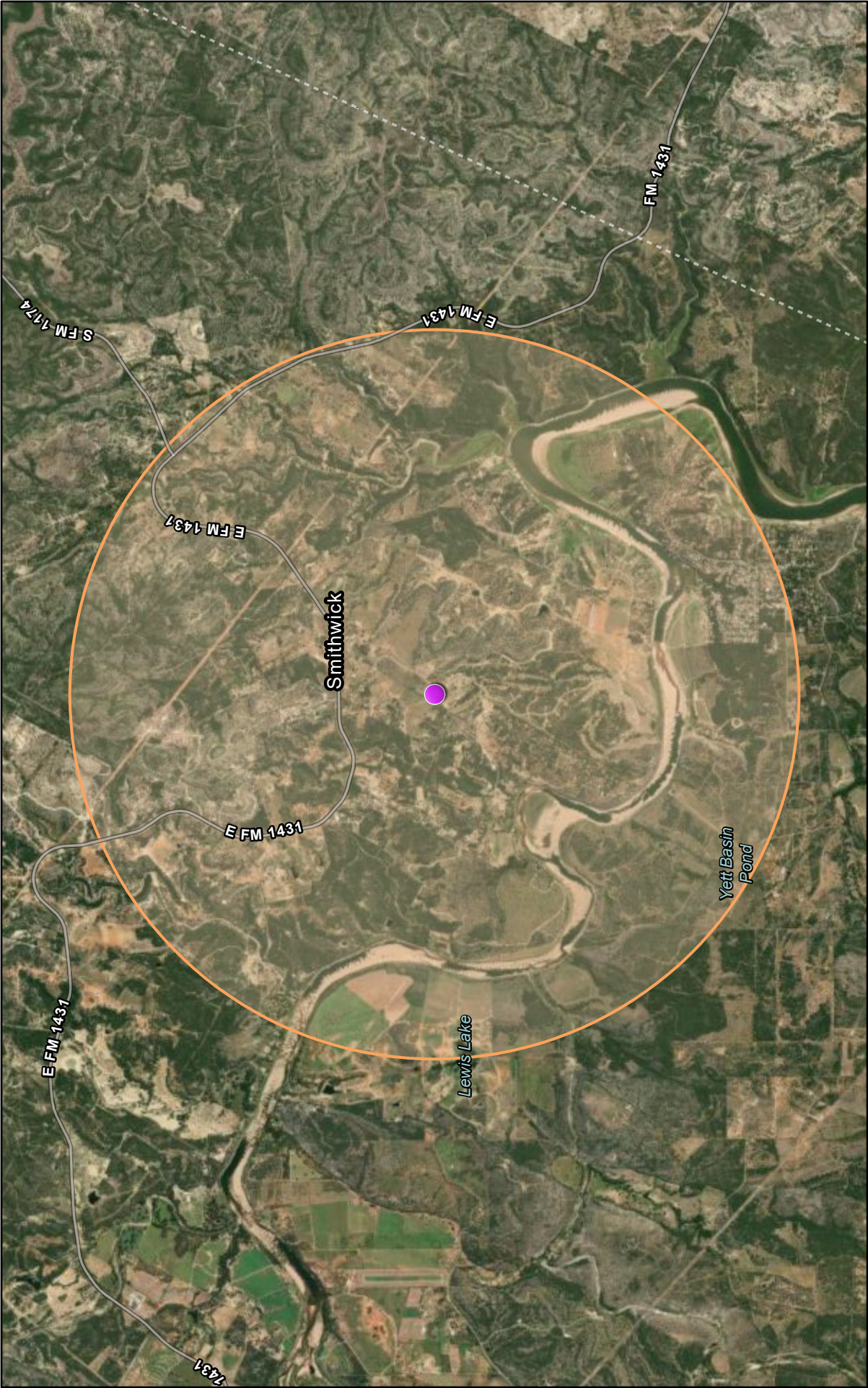
**STORAGE VOLUME CALCULATION, TABLE 2
(UNITS IN INCHES)**

13	a 14	b 15	c 16	17	18	d 19	20	e 21	f 21
Month	Mean Rainfall Distribution (%)	Rainfall (Max, in.)	Runoff (Max, in.)	Infiltrated Rainfall (Max, in.)	Total Avail. H2O (in.)	Mean Net Evaporation Distribution (%)	Minimum Net Evaporation Reservoir Surface (in.)	Storage (in.)	Accumulated Storage (In-Ac/Ac)
January	6.05%	2.85	0.93	1.92	4.92	-0.13	0.03	2.9673	8.0158
February	5.23%	2.46	0.68	1.78	4.78	-0.25	0.06	2.9367	10.9525
March	8.74%	4.12	1.85	2.27	5.27	-0.38	0.10	1.1748	12.1273
April	7.11%	3.35	1.27	2.08	5.08	-0.67	0.17	-0.0640	12.0634
May	14.03%	6.61	3.94	2.67	5.67	-0.39	0.10	-3.9649	8.0984
June	9.39%	4.42	2.09	2.34	5.34	-1.08	0.28	-5.0109	3.0875
July	7.52%	3.54	1.41	2.13	5.13	-1.25	0.32	-5.7288	-2.6413
August	6.86%	3.23	1.19	2.04	5.04	-1.32	0.34	-1.6786	-4.3199
September	10.45%	4.92	2.49	2.43	5.43	-0.54	0.14	-2.5752	-4.2538
October	11.79%	5.55	3.02	2.53	5.53	-0.22	0.06	-0.4391	-0.4391
November	8.24%	3.88	1.67	2.22	5.22	-0.20	0.05	2.5407	2.1015
December	4.61%	2.17	0.51	1.66	4.66	-0.21	0.05	2.9469	5.0484
TOTAL	100%	47.12	21.04	26.08	62.08	-6.63			12.13

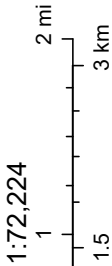
Storage Volume Req'd. (ac-ft)	Storage Volume Req'd. (gal)	Design Storage Volume (gal)
67.71	22,062,138.70	22,063,000.00

APPENDIX R
REGIONALIZATION

Wastewater Outfalls in Texas (TCEQ) Custom Print



4/23/2024, 10:46:47 AM



From: [Daniel Ryan](#)
To: [Jose Alfonso Martinez](#); [Lauren Crone](#)
Subject: Re: New Permit WQ0016564001 - US Trinity Smithwick, LLC
Date: Monday, April 14, 2025 4:24:58 PM

Alfonso - I know the storage is higher than some of the other TLAPs you've reviewed but there are two main reasons we'd like to stick with the number as presented, first, our application rate is relatively high at 3' per year, and secondly, we are irrigating what is proposed to be a golf course, and likely will be subject to the operator wanting to make sure it's playable and would like the flexibility of irrigating at a rate they are comfortable with.

The other note I would add is that many of the other facilities you are referencing with lower storage capacity have had issues during wet winters with managing their pond levels and adequately storing effluent. I have a daily water balance spreadsheet but don't feel comfortable with the results it produces as I don't think it provides much margin for error when the plant approaches capacity.

Daniel Ryan, P.E.
LJA Engineering, Inc.
Cell: 512-633-8122

From: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>
Sent: Monday, April 14, 2025 3:42 PM
To: Lauren Crone <lcrone@lja.com>; Daniel Ryan <dryan@lja.com>
Subject: New Permit WQ0016564001 - US Trinity Smithwick, LLC

[EXTERNAL EMAIL]

Good Afternoon Lauren and Daniel,

I was reassigned this permit application and have performed a technical review of the permit application. Here are the items that need clarification:

- **Domestic Technical Report 1.0, Section 8. Facility Operator:** The license number provided has been expired since June 2024. Please provide an updated operator and license number.
- **Domestic Technical Report 1.0, Section 9. Sewage Sludge Management and Disposal:** Just to clarify that it was intended that you were going to hire a service at a later date and no naming a specific one?
- **Domestic Technical Report 1.1, Justification for Permit:** The only items missing

for this section are the following items that are stated in the application instructions.

Provide information the date construction on the development is scheduled to begin, and the anticipated growth rate of the development (number of houses per month or year).

Attach population estimates and/or projections used to derive the flow estimates and anticipated growth rates for developments. Provide the source and basis upon which population figures were derived (census and/or other methodology). Also, provide population projections at the end of the design life of the treatment facility (usually 50+ years) and the source and basis upon which population figures were derived.

- **Appendix F – Buffer Zone Map:** Buffer zone map seems to be unclear and when looking at other maps, I see the 150 ft goes over the property line but I assume that portion of the land will be owned by the owner of the WWTP? Also if you could please provide an updated buffer zone map so that the buffer zone can be seen better.
- **Appendix Q – Water Balance and Storage Calculation:** Looking over the storage calculations, seems a bit high for the area at 122 days of storage. This area typically sees 50-60 days. If you can find another facility that operates nearby and see how the storage looks to be there, are there plans for reuse, etc. I know the water balance calcs by rule are conservative but if you can provide a good justification for a lower storage amount then I would be able to accept that. Or if you know how to perform daily water balances then we can accept that as well.

Let me know if you have any questions. Have a wonderful day! Please provide a response to me by April 25, 2025.

Sincerely,



J. Alfonso Martinez III

Texas Commission on Environmental
Quality
Work Leader, Municipal Permits Team
Water Quality Division
Direct|512.239.4668
jose.martinez@tceq.texas.gov



Please consider whether it is necessary to print this e-mail

[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email

From: [Lauren Crone](#)
To: [Jose Alfonso Martinez](#)
Subject: RE: New Permit WQ0016564001 - US Trinity Smithwick, LLC
Date: Tuesday, April 22, 2025 8:31:08 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)
[image006.png](#)
[image007.png](#)
[DTR 1.0 - Section 9.pdf](#)
[DTR 1.1 - Section 1.pdf](#)
[Smithwick Buffer Zone.pdf](#)

Alfonso,

Please see the attached updated materials for this application. If you have any questions or need anything else, please let me know.

Thank you,

Lauren Crone, P.E. | Senior Project Manager
CENTRAL TEXAS LAND DEVELOPMENT
O: 512.439.4700 | C: 512.971.7693
7500 Rialto Blvd. Building II, Suite 100 Austin, TX 78735
EMPLOYEE-OWNED. CLIENT FOCUSED.
www.lja.com



From: Jose Alfonso Martinez <Jose.Martinez@tceq.texas.gov>
Sent: Monday, April 14, 2025 3:43 PM
To: Lauren Crone <lcrone@lja.com>; Daniel Ryan <dryan@lja.com>
Subject: New Permit WQ0016564001 - US Trinity Smithwick, LLC

[EXTERNAL EMAIL]

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Sincerely,



J. Alfonso Martinez III

Texas Commission on Environmental
Quality
Work Leader, Municipal Permits Team

Water Quality Division
Direct|512.239.4668
jose.martinez@tceq.texas.gov



Please consider whether it is necessary to print this e-mail

[EXTERNAL EMAIL] Exercise caution. Do not open attachments or click links from unknown senders or unexpected email



PERMIT NO. WQ0016564001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

US Trinity Smithwick, LLC

whose mailing address is

200 Highland Circle
Argyle, Texas 76226

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952.

General Description and Location of Waste Disposal System:

Description: The Smithwick Tract Wastewater Treatment Facility will consist of an activated sludge process plant using the extended aeration mode. Treatment units will include an on-site lift station, a bar screen, an aeration basins, a final clarifiers, a aerobic digester, and chlorine contact chamber. Treatment units in the Interim II and Final phases will include an additional train in each phase. The facility has not been constructed. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 million gallons per day (MGD) in the Interim I phase, 0.12 MGD in the Interim II phase and 0.18 MGD in the Final phase via surface irrigation of 70.2 acres of public access golf course. The facility includes a storage pond with a total surface area of 2.6 acres and total capacity of 73.55 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.0 acre-feet per year per acre irrigated. The irrigated crops include Zoysia grass and Ryegrass.

Location: The wastewater treatment facility and disposal site are located approximately 0.25 miles southwest of the intersection of County Road 344 and Old Ranch-to-Market Road 1431, in Burnet County, Texas 78654. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado 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, **five years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

Volume: Daily Average Flow – 0.06 MGD from the treatment system (Interim I phase)
Daily Average Flow – 0.12 MGD from the treatment system (Interim II phase)
Daily Average Flow – 0.18 MGD from the treatment system (Final phase)

Quality: The following effluent limitations are required:

<u>Parameter</u>	<u>Effluent Concentrations</u> (Not to Exceed)			
	<u>Daily Average</u> mg/l	<u>7-Day Average</u> mg/l	<u>Daily Maximum</u> mg/	<u>Single Grab</u> mg/l
Biochemical Oxygen Demand (5-day)	5	10	20	30
Total Suspended Solids	5	10	20	30
Ammonia Nitrogen	2	5	10	15

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. If the effluent is to be transferred to a holding pond or tank, re-chlorination prior to the effluent being delivered into the irrigation system will be required. A trace total chlorine residual shall be maintained in the effluent at the point of irrigation application.

B. Monitoring Requirements:

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	One/week	Grab
Total Suspended Solids	One/week	Grab
pH	One/week	Grab
Total Chlorine Residual	Five/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.

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 a 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. The term “biosolids” is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
 7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING 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 or biosolids 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. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. 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 or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
 - a. The permittee shall notify the Domestic Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
 - b. The permittee shall submit a closure plan for review and approval to the Domestic Permits Team, Domestic Wastewater Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under 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 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or

discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. 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 Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
 - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and 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 or biosolids only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. **The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids 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 or biosolids to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224) by September 30th of each year.

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> <u>(Milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

* Dry weight basis

3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

- a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC § 312.82(a)(2)(C)(iv-vi) for specific information; or

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each

monitoring episode for the sewage sludge.

- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility

for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 – 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.
- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge

that have not been treated in either an aerobic or anaerobic treatment process.

- Alternative 9 -
- i. 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 biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- Alternative 10 -
- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
 - ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the 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
PCBs	- once during the term of this permit

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

<u>Amount of biosolids (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(*) *The amount of bulk biosolids applied to the land (dry wt. basis).*

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment

process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

A. Pollutant Limits

Table 2

<u>Pollutant</u>	Cumulative Pollutant Loading Rate (pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

<u>Pollutant</u>	Monthly Average Concentration (milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

*Dry weight basis

B. Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.
2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

“I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment.”
6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge or biosolids treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
 - c. The number of acres in each site on which bulk sludge or biosolids are applied.
 - d. The date and time sludge or biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of 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 11) and the Enforcement Division (MC 224), by September 30th of each year the following information:

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a landfill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.
16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

- a. The location, by street address, and specific latitude and longitude.
- b. The number of acres in each site on which bulk biosolids are applied.
- c. The date and time bulk biosolids are applied to each site.
- d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
- e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224), by September 30th of each year.

- D. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- E. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224), by September 30th of each year the following information:

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge or biosolids transported;
 - b. the date of transport;
 - c. the name and TCEQ permit number of the receiving facility or facilities;
 - d. the location of the receiving facility or facilities;
 - e. the name and TCEQ permit number of the facility that generated the waste; and
 - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224), by September 30th of each year the following information:

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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SPECIAL PROVISIONS:

1. This permit is 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 this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an 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.
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 Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category C facility must be operated by a chief operator or an operator holding a Class C license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift 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. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.
5. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
6. Prior to construction of the Interim I, Interim II, and Final phases wastewater treatment facilities (or the date that the phase is in effect, the permittee shall submit to the TCEQ Domestic Wastewater Section (MC 148) of the Water Quality Division, a summary transmittal letter according to the requirements in 30 TAC § 217.6(d). If requested by the Domestic Wastewater Section, the permittee shall submit plans, specifications and a final engineering design report which comply with the requirements of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Page 2 of the permit. A copy of the summary transmittal letter shall be available at the plant site for

inspection by authorized representatives of the TCEQ.

7. Reporting requirements according to 30 TAC § 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge, whichever occurs first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 11) and the Applications Review and Processing Team (MC 148) of the Water Quality Division at least forty-five (45) days prior to plant startup or anticipated discharge, whichever occurs first, and prior to completion of each additional phase on Notification of Completion Form 20007.
8. The irrigated crops include Zoysia grass and Ryegrass. Application rates to the irrigated land shall not exceed 3.00 acre-feet/acre/year. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. The records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
9. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. 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.
10. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, Zoysia grass (warm season) and Ryegrass (cool season) shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
11. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
12. The permittee shall construct and maintain earthen berms to prevent runoff from leaving the irrigation site.
13. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.
14. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
15. The permittee shall use agronomic practices to promote and maintain the health and propagation of the Zoysia grass (warm season) and Ryegrass (cool season) crops and avoid plant lodging. Agronomic practices shall include as needed at the time: mowing, harvesting (cut and remove), and removal of excess thatch, fertilizing and use of disease and infestation

control compounds. The permittee shall harvest the crops (cut and remove it from the field) at least once during the year. Dates of these agronomic practices shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

16. Irrigation with effluent shall only be done when the irrigation area is not in use.
17. The permittee shall obtain representative soil samples from the root zones of the land application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 67 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop 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 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

Samples shall be analyzed annually 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 plus Nitrate-nitrogen		mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K)	May be determined in the same Mehlich III extract with	5 (K)	mg/kg (dry weight basis)

	inductively coupled plasma		
Amendment addition, e.g., gypsum			Report in short tons/acre in the year effected

A copy of this soil testing plan shall be provided 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), the Land Application Team (MC 150), and the Enforcement Division (MC 224), no later than the end of September of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

18. A wastewater treatment plant unit may not be located in wetlands per 30 TAC §309.13(b).
19. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
20. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells and waters in the state. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water; 150 feet from private water wells; and 100 feet from surface waters in the state.
21. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 and 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the pond liners meet the requirements of 30 TAC §217.203 and 30 TAC §309.13(d). The permittee shall demonstrate that the number, location, and test results of samples collected for geotechnical testing are in accordance with 30 TAC §217.203(d) and (e), and that the liner has a minimum thickness of 3 feet in accordance with 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. The report providing this demonstration shall be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC-Region 11) for review and approval prior to use of the wastewater ponds. If a synthetic liner is to be used, the liner thickness shall be a minimum of 40 mils and be constructed with an underground leak detection system with appropriate sampling points.
22. The permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC Region 11), and the TCEQ Enforcement Division (MC 224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 and 30 TAC §309.13(d).

23. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the permittee shall inspect the sides and bottom (if visible) of the wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed.
24. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.
25. 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 Chapter 217, Design Criteria for Domestic Wastewater Systems.
26. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.

TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	US Trinity Smithwick, LLC TCEQ Permit No. WQ0016564001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	New Permit
Request:	New Permit
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 **five 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

US Trinity Smithwick, LLC has applied to the Texas Commission on Environmental Quality (TCEQ) for new Permit No. WQ0016564001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.06 million gallons per day (MGD) in the Interim I phase, 0.12 MGD in the Interim II phase, and 0.18 MGD in the Final phase via surface irrigation of 70.2 acres of public access golf course. The facility includes a storage pond with a total surface area of 2.6 acres and total capacity of 73.55 acre-feet for storage of treated effluent prior to irrigation. The proposed existing wastewater treatment facility will serve the Smithwick Tract, a residential development composed of single-family lots and recreational areas on approximately 1,400 acres.

PROJECT DESCRIPTION AND LOCATION

The Smithwick Tract Wastewater Treatment Facility will consist of an activated sludge process plant using the extended aeration mode. Treatment units will include an on-site lift station, a bar screen, an aeration basins, a final clarifiers, a aerobic digester, and chlorine contact chamber. Treatment units in the Interim II and FInal phases will include an additional train in each phase. The facility has not been constructed.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located approximately 0.25 miles southwest of the intersection of County Road 344 and Old Ranch-to-Market Road 1431 in

Burnet County, Texas 78654.

The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

There is no effluent data since the facility has not been constructed.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 MGD in the Interim I phase, 0.12 MGD in the Interim II phase, and 0.18 MGD in the Final phase via surface irrigation of 70.2 acres of public access golf course. The facility includes a storage pond with a total surface area of 2.6 acres and total capacity of 73.55 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.0 acre-feet per year per acre irrigated. The irrigated crops include Zoysia grass and Ryegrass.

The effluent limitations in the draft permit, based on a daily average, are 5 mg/l biochemical oxygen demand (BOD₅), 5 mg/l total suspended solids (TSS), and 2 mg/l ammonia nitrogen (NH₃-N). The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

The applicant is proposing a 1.0 mg/l total phosphorus effluent limit. Since phosphorus is a necessary plant nutrient, it is not advisable to limit total phosphorus in the effluent. In addition, a proposed dissolved oxygen effluent limit is not necessary because dissolved oxygen is a water quality consideration for effluent discharged into a receiving body of water. Furthermore, the proposed aerobic process will produce a well-oxygenated effluent.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on June 25, 2024, and additional information received on April 14, 2025 and April 22, 2025.

2. Interoffice Memorandum from the Land Application 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.

US Trinity Smithwick, LLC

Permit No. WQ0016564001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

For additional information about this application, contact J. Alfonso Martinez III at (512) 239-4668.

JAM III

J. Alfonso Martinez III

Domestic Permits Team

Domestic Wastewater Section (MC 148)

September 12, 2025

Date