



Administrative Package Cover Page

This file contains the following documents:

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



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
 - Inglés
 - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
 - Inglés
 - Idioma alternativo (español)
3. Solicitud original

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Plain Language Summary

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

SV2 Alexander LLC, Douglas Germann, and Janice Germann, 1001 Cypress Creek Rd, Ste 203, Cedar Park, Texas 78613, applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Land Application Permit (TLAP) to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 131,000 gallons per day via public access surface spray irrigation system with a minimum of 37.6 acres. This permit will not authorize a discharge of pollutants into water in the state.

The domestic wastewater treatment facility will be located approximately 1.21 miles northeast of the intersection of US 183 and FM 3405, near the city of Georgetown, in Williamson county, Texas 78642. The permit application will be available for viewing and copying at Liberty Hill Public Library, 355 Main St, Liberty Hill, in Williamson county, Texas.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5) and total suspended solids (TSS). Domestic wastewater will be treated by a Membrane Bioreactor, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV disinfection.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Plain Language Summary

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

SV2 Alexander LLC, Douglas Germann y Janice Germann, con domicilio en 1001 Cypress Creek Rd, Ste 203, Cedar Park, Texas 78613, solicitaron a la Comisión de Calidad Ambiental de Texas (TCEQ) un nuevo Permiso de Aplicación en Tierras de Texas (TLAP) para autorizar la eliminación de aguas residuales tratadas a un volumen que no exceda un caudal promedio diario de 131,000 galones por día, mediante un sistema de riego por aspersión superficial de acceso público en un área mínima de 37.6 acres. Este permiso no autoriza la descarga de contaminantes en cuerpos de agua del estado.

La planta de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 1.21 millas al noreste de la intersección de la US 183 y la FM 3405, cerca de la ciudad de Georgetown, en el condado de Williamson, Texas 78642. La solicitud de permiso estará disponible para su consulta y copia en la Biblioteca Pública de Liberty Hill, ubicada en 355 Main St, Liberty Hill, en el condado de Williamson, Texas.

Se prevé que las aguas residuales domésticas de la planta, al ser utilizadas en la aplicación agrícola, contengan una demanda bioquímica de oxígeno carbonácea a cinco días (DBO5) y sólidos totales en suspensión (STS). El tratamiento de las aguas residuales domésticas se realizará mediante un biorreactor de membrana, cuyo sistema contará con un filtro primario, un tanque de homogeneización, múltiples trenes de proceso (zonas anóxicas, de aireación y de membrana) y tanques de retención de lodos. La planta empleará desinfección UV.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016909001

APPLICATION. SV2 Alexander LLC, Janice Germann and Douglas Germann, 1001 Cypress Creek Road, Suite 203, Cedar Park, Texas 78613, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016909001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 131,000 gallons per day via surface irrigation on 37.6 acres of public access land. The domestic wastewater treatment facility and disposal area will be located approximately 1.21 miles northeast of the intersection of Farm-to-Market Road 3405 and U.S. Highway 183, in Liberty Hill ETJ, in Williamson County, Texas 78642. TCEQ received this application on November 21, 2025. The permit application will be available for viewing and copying at Liberty Hill Public Library, Circulation Desk, 355 Main Street, Liberty Hill, in Williamson County, Texas prior to the date this notice is published in the newspaper. The application is available for viewing and copying 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=-97.864118,30.720497&level=18>

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

El aviso de idioma alternativo en español está disponible en

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from SV2 Alexander LLC, Janice Germann and Douglas Germann at the address stated above or by calling Ms. Janela Revilla, P.E., JA Wastewater LLC, at 737-864-3476.

Issuance Date: [Month Day, Year]

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016909001

SOLICITUD. SV2 Alexander LLC, Janice Germann and Douglas Germann, 1001 Cypress Creek Road, Suite 203, Cedar Park, Texas 78613, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016909001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 131.000 galones por día mediante riego superficial en 37,6 acres de terreno de acceso público. La planta y el área de disposición estarán ubicados aproximadamente a 1,95 kilómetros al noreste de la intersección de Farm-to-Market Road 3405 y la carretera estadounidense 183, en Liberty Hill ETJ, en el condado de Williamson, Texas 78642. La TCEQ recibió esta solicitud el 21 de noviembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Pública de Liberty Hill, Mostrador de Circulación, 355 Main Street, Liberty Hill, Condado de Williamson, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud está disponible para su visualización y copia 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=-97.864118,30.720497&level=18>

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés

público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

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

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

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

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

También se puede obtener información adicional del SV2 Alexander LLC, Janice Germann and Douglas Germann a la dirección indicada arriba o llamando a Janela Revilla, P.E., JA Wastewater LLC, al 737-864-3476.

Fecha de emisión: 5 de diciembre de 2025

Brooke T. Paup, *Chairwoman*
Catarina R. Gonzales, *Commissioner*
Tonya R. Miller, *Commissioner*
Kelly Keel, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

November 21, 2025

Re: Confirmation of Submission of the New Private Domestic Wastewater Individual Permit Application

Dear Applicant:

This is an acknowledgement that you have successfully completed Private Domestic Wastewater Individual Permit Application.

ER Account Number: ER114684

Application Reference Number: 843420

Authorization Number: WQ0016909001

Site Name: Featherhook Water Resource Recovery Facility

Regulated Entity: RN112326509 - FEATHERHOOK WATER RESOURCE RECOVERY FACILITY

Customer(s): CN606312841 - Sv2 Alexander LLC, CN606452894 - Janice Germann, CN606452886 - Douglas Germann

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

New Domestic or Industrial Individual Permit

Site Information (Regulated Entity)

What is the name of the site to be authorized?	FEATHERHOOK WATER RESOURCE RECOVERY FACILITY
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	APPROXIMATELY 1.21 MILES NORTHEAST OF THE INTERSECTION OF US 183 AND FM 3405
City	GEORGETOWN
State	TX
ZIP	78642
County	WILLIAMSON
Latitude (N) (##.#####)	30.720497
Longitude (W) (-###.#####)	-97.864118
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	FEATHERHOOK WATER RESOURCE RECOVERY FACILITY
Does the RE site have a physical address?	No
Because there is no physical address, describe how to locate this site:	APPROXIMATELY 1.21 MILES NORTHEAST OF THE INTERSECTION OF US 183 AND FM 3405
City	GEORGETOWN
State	TX
ZIP	78642
County	WILLIAMSON
Latitude (N) (##.#####)	30.720497
Longitude (W) (-###.#####)	-97.864118
Facility NAICS Code	
What is the primary business of this entity?	WASTEWATER TREATMENT

SV2 Ale-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	CN606312841
Type of Customer	Other
Full legal name of the applicant:	
Legal Name	SV2 Alexander LLC
Texas SOS Filing Number	804703218
Federal Tax ID	
State Franchise Tax ID	32086037630
State Sales Tax ID	

Local Tax ID	
DUNS Number	
Number of Employees	0-20
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	SV2 Alexander LLC
Prefix	MR
First	VINOD
Middle	
Last	NAGI
Suffix	
Credentials	
Title	AUTHORIZED SIGNATORY
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 CYPRESS CREEK RD
Routing (such as Mail Code, Dept., or Attn:)	STE 203
City	CEDAR PARK
State	TX
ZIP	78613
Phone (###-###-####)	5126992532
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	VNAGI@EAI-RE.COM

GERMANN-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	
Type of Customer	Individual
Prefix	MR
Suffix	
Full legal name of the applicant:	
Legal Name	GERMANN, DOUGLAS
Texas SOS Filing Number	
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	

Organization Name	
Prefix	MR
First	DOUGLAS
Middle	
Last	GERMANN
Suffix	
Credentials	
Title	AUTHORIZED SIGNATORY
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	625 COUNTY ROAD 255
Routing (such as Mail Code, Dept., or Attn:)	
City	GEORGETOWN
State	TX
ZIP	78633
Phone (###-###-####)	5124159489
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	DGERMANN@THEZENITH.COM

GERMANN-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	
Type of Customer	Individual
Prefix	MS
Suffix	
Full legal name of the applicant:	
Legal Name	GERMANN, JANICE
Texas SOS Filing Number	
Federal Tax ID	
State Franchise Tax ID	
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	
Prefix	MS
First	JANICE
Middle	
Last	GERMANN
Suffix	
Credentials	

Title	AUTHORIZED SIGNATORY
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	625 COUNTY ROAD 255
Routing (such as Mail Code, Dept., or Attn:)	
City	GEORGETOWN
State	TX
ZIP	78633
Phone (###-###-####)	5128180087
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	4JANICEANDDOUG22@GMAIL.COM

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	CN606312841, SV2 Alexander LLC
Organization Name	SV2 Alexander LLC
Prefix	MR
First	VINOD
Middle	
Last	NAGI
Suffix	
Credentials	
Title	AUTHORIZED SIGNATORY
Enter new address or copy one from list:	CN606312841, SV2 Alexander LLC
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 CYPRESS CREEK RD
Routing (such as Mail Code, Dept., or Attn:)	STE 203
City	CEDAR PARK
State	TX
ZIP	78613
Phone (###-###-####)	5126992532
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	VNAGI@EAI-RE.COM

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	JA WASTEWATER LLC
Prefix	MS
First	JANELA
Middle	

Last	REVILLA
Suffix	
Credentials	PE
Title	PROJECT ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
Routing (such as Mail Code, Dept., or Attn:)	STE 170
City	AUSTIN
State	TX
ZIP	78731
Phone (###-###-####)	7378643476
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JREVILLA@JAWASTEWATER.COM

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	Application Contact
Organization Name	JA WASTEWATER LLC
Prefix	MS
First	JANELA
Middle	
Last	REVILLA
Suffix	
Credentials	PE
Title	PROJECT ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
Routing (such as Mail Code, Dept., or Attn:)	STE 170
City	AUSTIN
State	TX
ZIP	78731
Phone (###-###-####)	7378643476
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JREVILLA@JAWASTEWATER.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	CN606312841, SV2 Alexander LLC
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Organization Name	SV2 Alexander LLC
Prefix	MR
First	VINOD
Middle	
Last	NAGI
Suffix	
Credentials	
Title	AUTHORIZED SIGNATORY
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	1001 CYPRESS CREEK RD
Routing (such as Mail Code, Dept., or Attn:)	STE 203
City	CEDAR PARK
State	TX
ZIP	78613
Phone (###-###-####)	5126992532
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	VNAGI@EAI-RE.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application Contact
2) Organization Name	JA WASTEWATER LLC
3) Prefix	MS
4) First	JANELA
5) Middle	
6) Last	REVILLA
7) Suffix	
8) Credentials	PE
9) Title	PROJECT ENGINEER
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
11.2) Routing (such as Mail Code, Dept., or Attn:)	STE 170
11.3) City	AUSTIN
11.4) State	TX
11.5) ZIP	78731
12) Phone (###-###-####)	7378643476
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	JREVILLA@JAWASTEWATER.COM

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	JA WASTEWATER LLC
3) Prefix	MS
4) First	JAMIE
5) Middle	
6) Last	MILLER
7) Suffix	
8) Credentials	PE
9) Title	PRESIDENT

Mailing Address

10) Enter new address or copy one from list	Application Contact
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
11.2) Routing (such as Mail Code, Dept., or Attn:)	STE 170
11.3) City	AUSTIN
11.4) State	TX
11.5) ZIP	78731
12) Phone (###-###-####)	9704439096
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	JMILLER@JAWASTEWATER.COM

Public Notice Information

Individual Publishing the Notices

1) Prefix	MS
2) First and Last Name	JANELA REVILLA
3) Credential	PE
4) Title	PROJECT ENGINEER
5) Organization Name	JA WASTEWATER LLC
6) Mailing Address	3410 FAR WEST BLVD
7) Address Line 2	STE 170
8) City	AUSTIN
9) State	TX
10) Zip Code	78731
11) Phone (###-###-####)	7378643476
12) Extension	
13) Fax (###-###-####)	
14) Email	JREVILLA@JAWASTEWATER.COM

Contact person to be listed in the Notices

15) Prefix	MS
16) First and Last Name	JANELA REVILLA
17) Credential	PE

18) Title	PROJECT ENGINEER
19) Organization Name	JA WASTEWATER LLC
20) Phone (###-###-####)	7378643476
21) Fax (###-###-####)	
22) Email	JREVILLA@JAWASTEWATER.COM
Bilingual Notice Requirements	
23) 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
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) 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)?	No
23.4) Which language is required by the bilingual program?	SPANISH

Section 1# Public Viewing Information

County#: 1

1) County	WILLIAMSON
2) Public building name	LIBERTY HILL PUBLIC LIBRARY
3) Location within the building	CIRCULATION DESK
4) Physical Address of Building	355 MAIN ST
5) City	LIBERTY HILL
6) Contact Name	
7) Phone (###-###-####)	5127786400
8) Extension	
9) Is the location open to the public?	Yes

Owner Information

Owner of Treatment Facility

1) Prefix	MR
2) First and Last Name	VINOD NAGI
3) Organization Name	SV2 ALEXANDER LLC
4) Mailing Address	1001 CYPRESS CREEK RD, STE 203
5) City	CEDAR PARK
6) State	TX
7) Zip Code	78613
8) Phone (###-###-####)	5126992532
9) Extension	
10) Email	VNAGI@EAI-RE.COM
11) What is ownership of the treatment facility?	Private

Owner of Land (where treatment facility is or will be)

12) Prefix	MR
13) First and Last Name	DOUGLAS AND JANICE GERMANN
14) Organization Name	GERMANN DOUGLAS
15) Mailing Address	625 COUNTY RD 255

16) City	GEORGETOWN
17) State	TX
18) Zip Code	78633
19) Phone (###-###-####)	5124159489
20) Extension	
21) Email	DGERMANN@THEZENITH.COM
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

Admin General Information

1) Is the facility located on or does the treated effluent cross American Indian Land?	No
2) What is the authorization type that you are seeking?	Private Domestic Wastewater
2.1) Is the facility previously authorized under a Water Quality individual permit?	No
2.2) What is the proposed total flow in MGD discharged at the facility?	0.131
2.3) Select the applicable fee	>=0.10 MGD but < 0.25 MGD - \$850
3) What is your facility operational status?	Inactive
4) What is the classification for your authorization?	TLAP
4.1) Provide an accurate description of the effluent disposal site location:	APPROXIMATELY 1.17 MILES NORTHEAST OF THE INTERSECTION OF US 183 AND FM 3405
4.2) City nearest the disposal site:	GEORGETOWN
4.3) County in which the disposal site is located:	WILLIAMSON
4.4) Describe the routing of effluent from the treatment facility to the disposal site:	THE EFFLUENT WILL BE ROUTED VIA PIPE.
4.5) Identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:	NORTH FORK SAN GABRIEL RIVER
4.6) Is onsite sludge disposal requested?	No
Owner of Effluent TLAP Disposal Site	
4.7) Prefix	MS
4.8) First and Last Name	DOUGLAS AND JANICE GERMANN
4.9) Organization Name	GERMANN DOUGLAS
4.10) Mailing Address	625 COUNTY RD 255
4.11) City	GEORGETOWN
4.12) State	TX
4.13) Zip Code	78633
4.14) Phone (###-###-####)	5124159489
4.15) Extension	
4.16) Email	DGERMANN@THEZENITH.COM
4.17) Is the landowner the same person as the facility owner or co-applicant?	Yes
5) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_4 Plain Language Summary.pdf

Hash	E7135D96867C1AD67796A9086A92F691CC367D1467C365BD15542A860A028AC2
MIME-Type	application/pdf

Domestic Attachments

1) Have you clearly outlined and labeled the required information on the original full size USGS Topographic Map?	Yes
---	-----

1.1) I certify that I have clearly outlined and labeled the required information on the Topographic map and attached here.

[File Properties]

File Name	MAP_9 USGS Map.pdf
Hash	8C1ED2A7D305C7CABB48B27EB291703B71C456C5F42BFE384E9A2AC9D21C0F7D
MIME-Type	application/pdf

[File Properties]

File Name	MAP_10 Well Data.pdf
Hash	FA920DF549CBD41FAFA613BE55DC3821816E1249D5CC85AA15E9333027506139
MIME-Type	application/pdf

2) Public Involvement Plan attachment (TCEQ Form 20960)

[File Properties]

File Name	PIP_5 PIP Form.pdf
Hash	A73A7A15D97D89E9364B1CBD42EC4D91A5D725A08AF353D368107C272F356FCF
MIME-Type	application/pdf

3) Administrative Report 1.1

[File Properties]

File Name	ARPT_2 Admin Report.pdf
Hash	D0094F55833CB12D62C7F40F7224C7FED5AE340E9743F8743FA0F08BD0936454
MIME-Type	application/pdf

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
--	-----

4.1) I confirm that Technical Report 1.1 is complete and included in the Technical Attachment.	Yes
--	-----

4.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
---	----

4.3) I confirm that Worksheet 3.0 (Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
---	-----

4.4) I confirm that Worksheet 3.1 (Surface Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
---	-----

4.5) I confirm that Worksheet 3.2 (Subsurface Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
--	-----

4.6) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
---	----

4.7) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
---	----

4.8) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No
---	----

4.9) Technical Attachment

[File Properties]

File Name	TECH_11 Technical Report.pdf
Hash	D0C63D89960A40BA1886F74AE469EDD999744B910D062694A89E5623E90369DB

MIME-Type	application/pdf
5) Affected Landowners Map	
[File Properties]	
File Name	LANDMP_6 Affected Landowner Map.pdf
Hash	0E909B8E3DB9C24418CA1559AF52A1CE6DF532A3CFA8477F73F824153C6F6FEC
MIME-Type	application/pdf
6) Landowners Cross Reference List	
[File Properties]	
File Name	LANDCRL_7 Affected Landowner List.pdf
Hash	006FAA16EF828C8E65EED31DA6E244295CFC34F4A345487A6494A93D44D88D1C
MIME-Type	application/pdf
7) Landowner Avery Template	
[File Properties]	
File Name	LANDAT_8 Mailing Labels.docx
Hash	202953E380ED0644669CFEAB6832E39A620624213658CE8B41BB6ED13E5264D9
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document
8) Buffer Zone Map	
[File Properties]	
File Name	BUFF_ZM_17 Buffer Zone Map.pdf
Hash	15B9BC025513FBD7BB844DF22AFB95EE5878C5AC1575633A39ACA8BBB1AAABF7
MIME-Type	application/pdf
9) Flow Diagram	
[File Properties]	
File Name	FLDIA_12 Process Flow Diagram - MBR.pdf
Hash	47CB1837E6A5F0CA63244A276E2F236567C51B192D490DD571D49FCDF74E4DCE
MIME-Type	application/pdf
10) Site Drawing	
[File Properties]	
File Name	SITEDR_18 Site Map.pdf
Hash	246D875F0981ECE86FADA7BE9A24582CF1DE0884A92CF77EE045538E9C7C887C
MIME-Type	application/pdf
11) Original Photographs	
[File Properties]	
File Name	ORIGPH_20 Original Photos.pdf
Hash	930553FD1725B3FA564C9AA29BB6A40E7E7A2F7D5E27BC4938253C45A99B06A4
MIME-Type	application/pdf
[File Properties]	
File Name	ORIGPH_20 Original Photos Map.pdf
Hash	2F50C8D50742742DBE858F78BB43EFC9FB36A87549AC6522DD576121391B1535
MIME-Type	application/pdf
12) Design Calculations	

[File Properties]

File Name DES_CAL_14 Design Calculations.pdf
Hash 792D76E338FC2D7483074E118CBD90E642B6D5159052C8A27B552600EFF156F8
MIME-Type application/pdf

13) Solids Management Plan

[File Properties]

File Name SMP_15 Solids Management Plan.pdf
Hash 535A755AB4C3D8AFB8418B3DD45B0D2288EE273B682B99F4EE04E84E4BE7284C
MIME-Type application/pdf

14) Water Balance

[File Properties]

File Name WB_24 Water Balance.pdf
Hash 4DE0C5981428240079FAD3BA8DCF2F2294E45039FE092FA34B68D797156FA546
MIME-Type application/pdf

[File Properties]

File Name WB_25 Engineering Report.pdf
Hash 889C6EE90B459E13436A4B50F07B561BD2330E5E9BB522629F986A3807820B9B
MIME-Type application/pdf

[File Properties]

File Name WB_21 Storage Variance Letter.pdf
Hash A11D87C680197257B3BF57A673787FC4329755D91DA12BAFFF5C87A38A065D7E
MIME-Type application/pdf

15) Other Attachments

[File Properties]

File Name OTHER_13 Treatment Process and Unit Sizing.pdf
Hash 0857438CC3594E3BF07B553DA4CF78592FC6BA8AA08CE42BA805005DD7B76FD1
MIME-Type application/pdf

[File Properties]

File Name OTHER_16 Wind Rose.pdf
Hash B7D5B7C6FDF0D5438A860A2C1DF852893A8E9475101A29F7E8C4C797F64E555D
MIME-Type application/pdf

[File Properties]

File Name OTHER_19 Disposal Area Map.pdf
Hash E6B977A966FE257D6AA25C4A0F0856E38E780D74030A3ADE22AE1FE076CBCDBC
MIME-Type application/pdf

[File Properties]

File Name OTHER_21 Liner Certification Letter.pdf
Hash 0EAE221DD10D37B5F41802F6FE66E629D02EC2E601FAC09B2FB15BB6F7BC66FF
MIME-Type application/pdf

[File Properties]

File Name OTHER_23 Groundwater Quality Report.pdf

Hash	8A81E76B22101A1BBFD80261376E973A7660028DCC2C42D21386DF46461A3A67
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_26 TLAP Map.pdf
Hash	E4D863F1ECF395ED1A68F2B0761FB77CB85694088C163B03C0879F773E18E211
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_27 Water Well Data.pdf
Hash	72F3AEB7F2D47A22E4AF4F1628635D430C93CC7712AE91217ADC44B3E2B840DF
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_29 USDA Report.pdf
Hash	2D2D5CDF2D14852C41995747FC5BA69AA040D9DCE221A7C2555C9C2BCBE31BBB
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_28 TLAP Well Data.pdf
Hash	2E45527D015C20313CCF81FBE9AC7D2636DE54405576E3B45E482938A79FAD5F
MIME-Type	application/pdf
[File Properties]	
File Name	OTHER_22 Annual Cropping Plan.pdf
Hash	E005E7401E1032A326A68155CEBA0E278E5DD53858BEBD854B8D046F094098B5
MIME-Type	application/pdf

Section 1# Individual Customer Information

Individual#: 1

1) Prefix	MR
2) Full Legal Name	GERMANN, DOUGLAS
3) Driver's License or State Identification Number	*****
4) Date of Birth	*****
5) Mailing Address	625 COUNTY ROAD 255
6) Address Line 2	
7) City	GEORGETOWN
8) State	TX
9) Zip Code	78633
10) Phone (###-###-####)	5124159489
11) Fax (###-###-####)	
12) Email	DGERMANN@THEZENITH.COM
13) Customer Number (CN)	

Individual#: 2

1) Prefix	MS
2) Full Legal Name	GERMANN, JANICE
3) Driver's License or State Identification Number	*****
4) Date of Birth	*****

5) Mailing Address	625 COUNTY ROAD 255
6) Address Line 2	
7) City	GEORGETOWN
8) State	TX
9) Zip Code	78633
10) Phone (###-###-####)	5128180087
11) Fax (###-###-####)	
12) Email	4JANICEANDDOUG22@GMAIL.COM
13) Customer Number (CN)	

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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.

1. I am Janice Germann, the owner of the STEERS account ER117977.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Janice Germann OWNER

Customer Number:

Legal Name: GERMANN, JANICE

Account Number: ER117977

Signature IP Address: 162.251.9.101

Signature Date: 2025-11-21

Signature Hash: B63BB4419D10F14E490986C3802D67EB977FCAF690CCC096BE47624C89428303

Form Hash Code at time of Signature: BD31CD1C87FB834CDE038853F2FD028206E9D204B833E06E936EBB83A3AE31A7

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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.

1. I am Douglas W Germann, the owner of the STEERS account ER117975.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.

4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Douglas W Germann OWNER

Customer Number:

Legal Name:

GERMANN, DOUGLAS

Account Number:

ER117975

Signature IP Address:

162.251.9.101

Signature Date:

2025-11-21

Signature Hash:

A5A0B4429DD364BA5C5FB6AAB725872B6A721E36EEC8BC7EA22358B0BE13389C

Form Hash Code at time of

BD31CD1C87FB834CDE038853F2FD028206E9D204B833E06E936EBB83A3AE31A7

Signature:

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

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.

1. I am Vinod Nagi, the owner of the STEERS account ER114684.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Vinod Nagi OWNER

Customer Number:

CN606312841

Legal Name:

SV2 Alexander LLC

Account Number:

ER114684

Signature IP Address:

68.203.214.22

Signature Date:

2025-11-21

Signature Hash:

C0CFA810015299031BBF00DBE02E1DEB857B38A160E6EB810F0490F4ACE49AD5

Form Hash Code at time of

BD31CD1C87FB834CDE038853F2FD028206E9D204B833E06E936EBB83A3AE31A7

Signature:

Fee Payment

Transaction by:

The application fee payment transaction was made by ER114684/Vinod Nagi

Paid by:	The application fee was paid by VINOD NAGI
Fee Amount:	\$800.00
Paid Date:	The application fee was paid on 2025-11-21
Transaction/Voucher number:	The transaction number is 582EA000696826 and the voucher number is 795720

Submission

Reference Number:	The application reference number is 843420
Submitted by:	The application was submitted by ER114684/Vinod Nagi
Submitted Timestamp:	The application was submitted on 2025-11-21 at 16:45:10 CST
Submitted From:	The application was submitted from IP address 68.203.214.22
Confirmation Number:	The confirmation number is 698861
Steers Version:	The STEERS version is 6.93

Additional Information

Application Creator: This account was created by Janela Revilla

DOMESTIC WASTEWATER PERMIT APPLICATION

ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☒ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. ☒ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- D. Provide the source of the landowners' names and mailing addresses: Williamson County 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 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☒ Yes ☐ No

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Plain Language Summary

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

SV2 Alexander LLC, Douglas Germann, and Janice Germann, 1001 Cypress Creek Rd, Ste 203, Cedar Park, Texas 78613, applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Land Application Permit (TLAP) to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 131,000 gallons per day via public access surface spray irrigation system with a minimum of 37.6 acres. This permit will not authorize a discharge of pollutants into water in the state.

The domestic wastewater treatment facility will be located approximately 1.21 miles northeast of the intersection of US 183 and FM 3405, near the city of Georgetown, in Williamson county, Texas 78642. The permit application will be available for viewing and copying at Liberty Hill Public Library, 355 Main St, Liberty Hill, in Williamson county, Texas.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5) and total suspended solids (TSS). Domestic wastewater will be treated by a Membrane Bioreactor, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV disinfection.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Plain Language Summary

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

SV2 Alexander LLC, Douglas Germann y Janice Germann, con domicilio en 1001 Cypress Creek Rd, Ste 203, Cedar Park, Texas 78613, solicitaron a la Comisión de Calidad Ambiental de Texas (TCEQ) un nuevo Permiso de Aplicación en Tierras de Texas (TLAP) para autorizar la eliminación de aguas residuales tratadas a un volumen que no exceda un caudal promedio diario de 131,000 galones por día, mediante un sistema de riego por aspersión superficial de acceso público en un área mínima de 37.6 acres. Este permiso no autoriza la descarga de contaminantes en cuerpos de agua del estado.

La planta de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 1.21 millas al noreste de la intersección de la US 183 y la FM 3405, cerca de la ciudad de Georgetown, en el condado de Williamson, Texas 78642. La solicitud de permiso estará disponible para su consulta y copia en la Biblioteca Pública de Liberty Hill, ubicada en 355 Main St, Liberty Hill, en el condado de Williamson, Texas.

Se prevé que las aguas residuales domésticas de la planta, al ser utilizadas en la aplicación agrícola, contengan una demanda bioquímica de oxígeno carbonácea a cinco días (DBO5) y sólidos totales en suspensión (STS). El tratamiento de las aguas residuales domésticas se realizará mediante un biorreactor de membrana, cuyo sistema contará con un filtro primario, un tanque de homogeneización, múltiples trenes de proceso (zonas anóxicas, de aireación y de membrana) y tanques de retención de lodos. La planta empleará desinfección UV.



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.

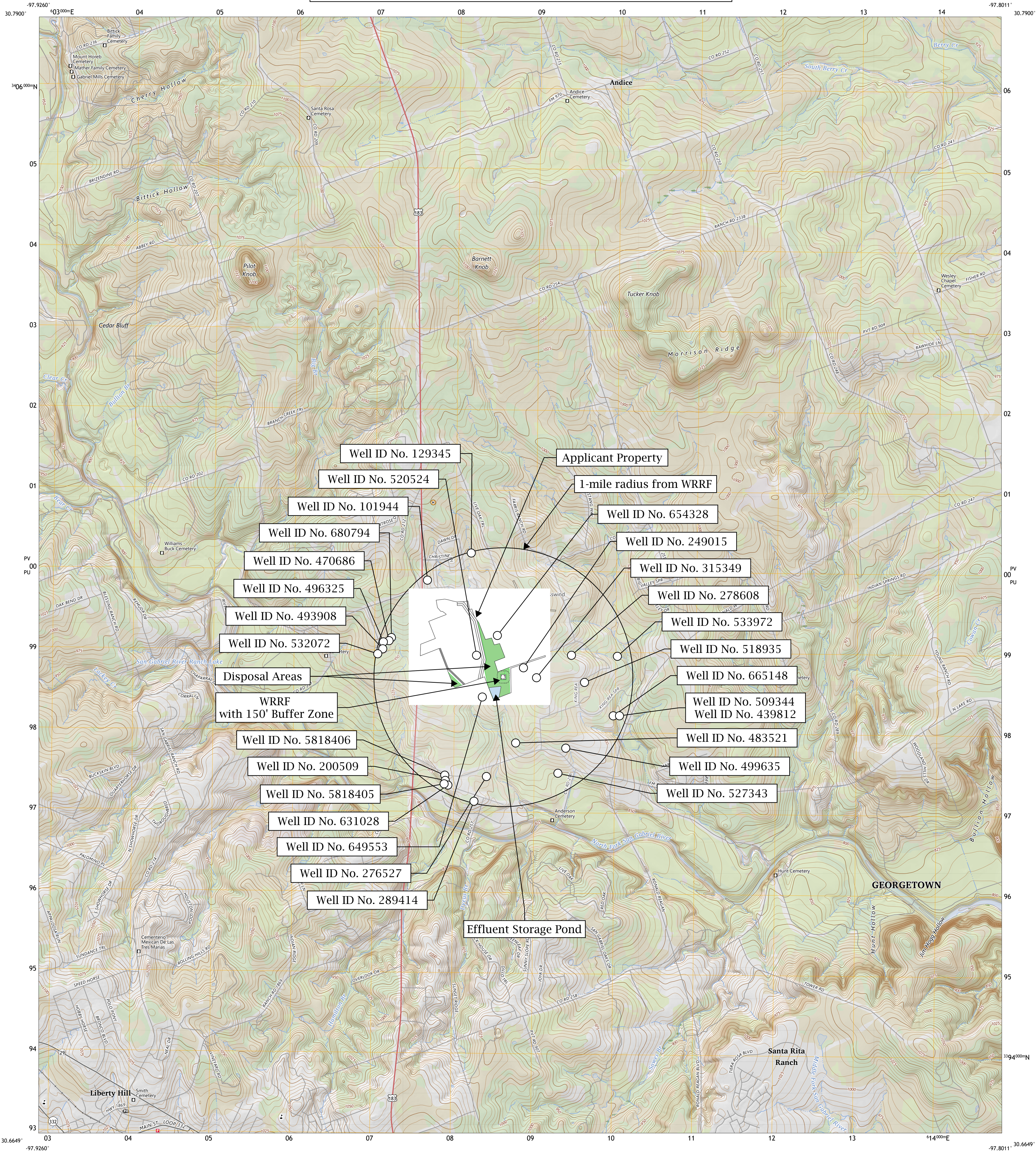
The project is not considered to have significant public interest.



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

FEATHERHOOK WATER RESOURCE RECOVERY FACILITY (WRRF) USGS Map

7.5-MINUTE TOPO QUADRANGLE
TEXAS - CUSTOM EXTENT
7.5-MINUTE TOPO

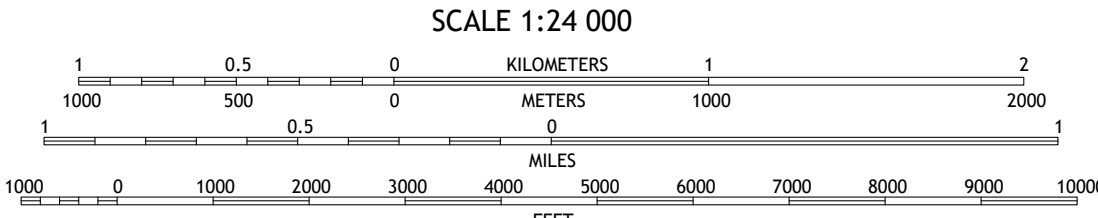
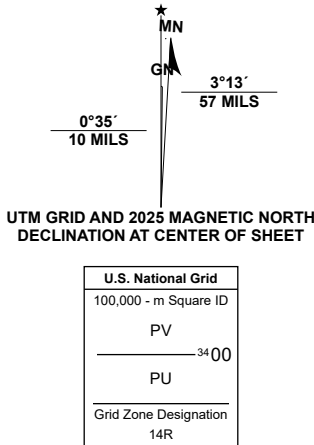


Produced by the United States Geological Survey

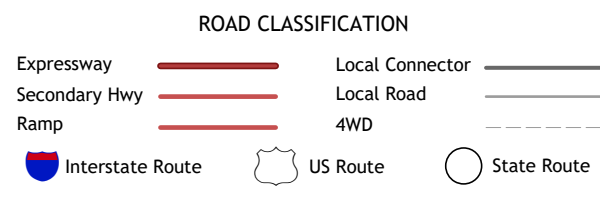
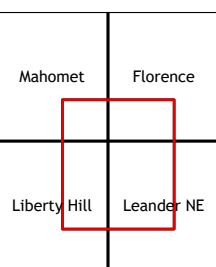
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R
Data is provided by The National Map (TNM), is the best available at the time of map
generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale.
Private lands within government reservations may not be shown. Obtain permission
before entering private lands. Temporal changes may have occurred since these data
were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: <https://nationalmap.gov>



CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium
USER DEFINED CONTENT



7.5-MINUTE TOPO, TX
2025



ADJOINING QUADRANGLES

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

State Well Number	5818405
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.704167
Latitude (degrees minutes seconds)	30° 42' 15" N
Longitude (decimal degrees)	-97.873055
Longitude (degrees minutes seconds)	097° 52' 23" W
Coordinate Source	+/- 1 Second
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	892
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	400
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1970
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	T.C.Joseph
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	11/3/1994
Last Update Date	3/4/2020

Remarks	Estimated yield 10-15 GPM.
---------	----------------------------

Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank	Steel				

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

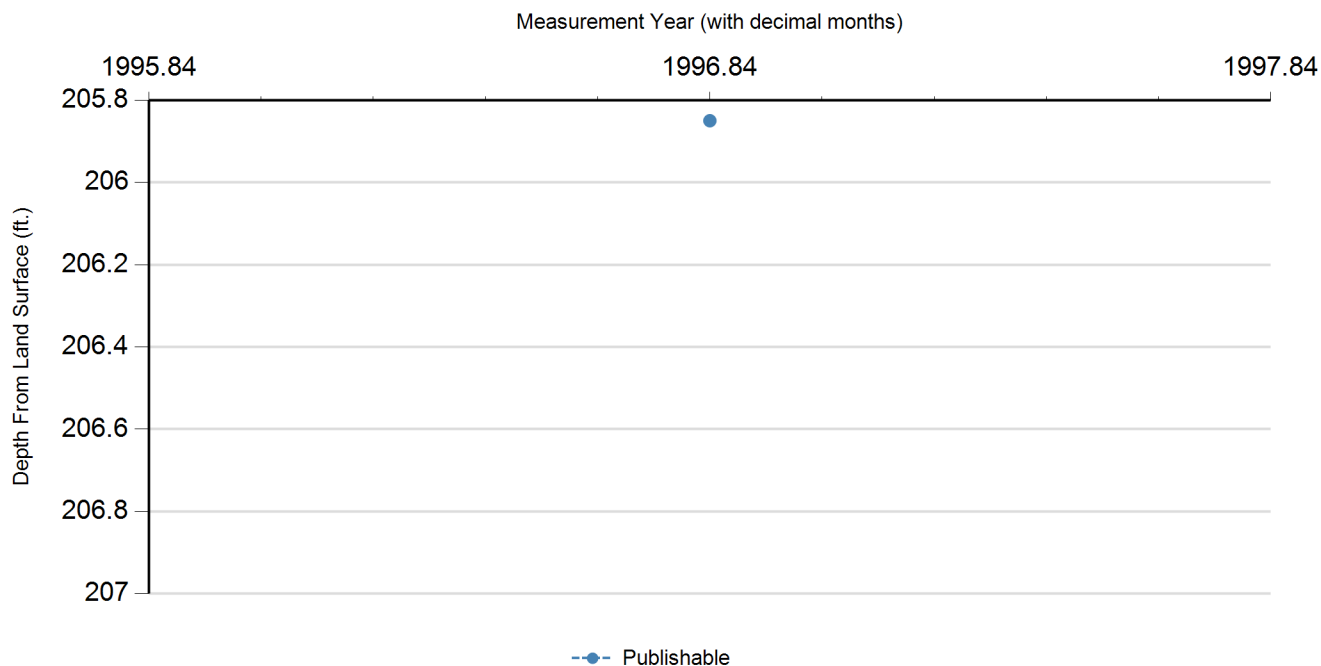
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/6/1996		205.85		686.15	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

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)		296	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		361.22	mg/L	
00910	CALCIUM (MG/L)		44	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		97	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		249	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		34	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		23	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.93		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.02		
00932	SODIUM, CALCULATED, PERCENT		55	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		146	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1287	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		157	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		25	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		696	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.

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

State Well Number	5818406
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.705001
Latitude (degrees minutes seconds)	30° 42' 18" N
Longitude (decimal degrees)	-97.873333
Longitude (degrees minutes seconds)	097° 52' 24" W
Coordinate Source	+/- 1 Second
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	900
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	432
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1971
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leland Sullins
Driller	R B Bonnet
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	11/3/1994
Last Update Date	3/4/2020

Remarks	
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Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	52
7	Open Hole				52	432

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

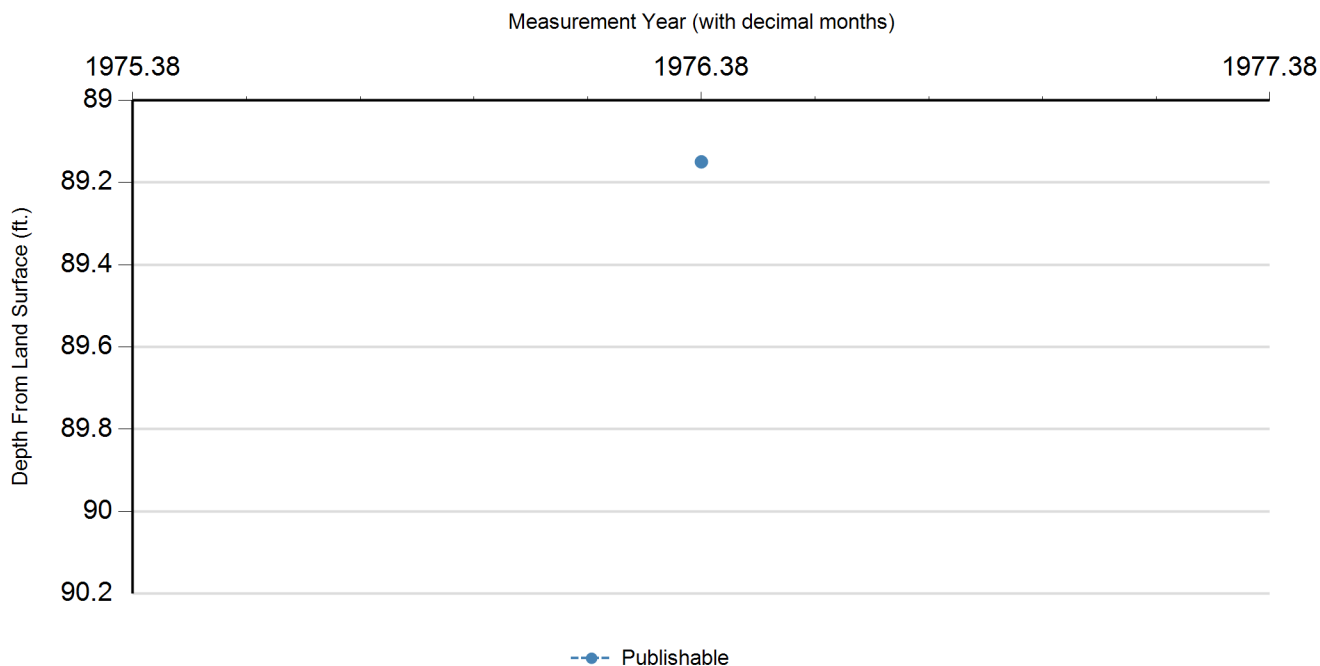
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	5/17/1976		89.15		810.85	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #101944

Owner:	Martin DeStefano	Owner Well #:	1 of 2
Address:	P.O. Box 160160 Austin, TX 78716	Grid #:	58-17-3
Well Location:	Leander, TX 78641	Latitude:	30° 43' 36" N
Well County:	Williamson	Longitude:	097° 52' 32" W
		Elevation:	785 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/21/2006** Drilling End Date: **11/21/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	520

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	4.5 cement

Seal Method: **poured slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **62**

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

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

Method of Verification: **measuring tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **264 ft. below land surface on 2006-11-21** Measurement Method: **Unknown**

Packers: **Rubber 20'**
Rubber 440'

Type of Pump: **n/a**

Well Tests: **Estimated** **Yield: 40 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: **Highland Drilling, Inc.**

**3339 E. Hwy 29
Burnet, TX 78611**

Driller Name: **Clifford Bohannon**

License Number: **4386**

Apprentice Name: **Hilery Steelman**

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	16	calechy
16	445	blue sandstone w/ blue shale stringers
445	454	sand
454	457	blue shale
457	470	sand
470	490	grey sandstone
490	497	sand
497	520	blue shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4 1/2	New	PVC	0-460 Sch 40
4 1/2	New	Perf PVC	460-500 Sch 40
4 1/2	New	PVC	500-520 Sch 40

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 #129345

Owner:	GEORGE CLARK	Owner Well #:	1
Address:	4221 OAK CREEK RD LEANDER, TX 78641	Grid #:	58-18-1
Well Location:	125 LAURA LN LIBERTY HILL, TX 78642	Latitude:	30° 43' 47" N
		Longitude:	097° 52' 12" W
Well County:	Williamson	Elevation:	980 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/30/2007** Drilling End Date: **11/30/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40
	6	40	520

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 CEMENT

Seal Method: **POURED SLURRY**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

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

Method of Verification: **ESTIMATED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **410 ft. below land surface on 2007-11-30** Measurement Method: **Unknown**

Packers: **RUBBER 420
RUBBER 20**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 50 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: **HIGHLAND DRILLING, INC**
3339 E. HWY 29
BURNET, TX 78611

Driller Name: **CLIFFORD BOHANNON**

License Number: **4386**

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	18	CALECHY
18	430	BLUE SANDSTONE W/BUE SHALE STRINGERS
430	436	SAND
436	443	BLUE SHALE
443	451	SAND
451	454	BLUE SHALE
454	466	SAND
466	480	BLUE SANDSTONE
480	486	SAND
486	491	BLUE SANDSTONE
491	498	SAND
498	520	BLUE SHALE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	NEW	PVC	0-440 SCH 40
4.5	NEW	PERF PVC	440-460 SCH 40
4.5	NEW	PVC	460-480 SCH 40
4.5	NEW	PERF PVC	480-500 SCH 40
4.5	NEW	PVC	500-520 SCH 40

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 #200509

Owner: **Smetzer, Jack**
Address: **1351 CR 257
Liberty Hill, TX 78624**
Well Location: **1351 CR 257
Liberty Hill, TX 78647**
Well County: **Williamson**

Owner Well #: **1**
Grid #: **58-18-4**
Latitude: **30° 42' 16" N**
Longitude: **097° 52' 23" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/30/2009**

Drilling End Date: **9/30/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	22
	6.75	22	460

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	3 Cement
	5	30	4 Benseal

Seal Method: **Gravity Feed**

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: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **313 ft. below land surface on 2009-09-30** Measurement Method: **Unknown**

Packers: **Shale 380'-370'
Cement 30'**

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

Well Tests: **Jetted** Yield: **33 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
390-460	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: **Tom Lovelace Water Well Serv.**
4997 Elm Grove Rd.
Belton, TX 76513

Driller Name: **Jimmy Okun**

License Number: **55015**

Comments: **^EO**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	20	over burden
20	380	gray lime & shale
380	390	gray & brown sandy lime
390	420	water sand
420	450	white lime & green sandy shale
450	460	brown & gray lime

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4 1/2"	New	Plastic Solid	+2'-390'
4 12/16"	New	Plastic MFG Screen	390'-460' .032

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 #249015

Owner: **Austin Korean Retreat**

Owner Well #: **No Data**

Address: **375 King Rea
Georgetown, TX 78628**

Grid #: **58-18-1**

Well Location: **375 King Rea
Georgetown, TX 78628**

Latitude: **30° 43' 01" N**

Longitude: **097° 51' 47" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **10/31/2005**

Drilling End Date: **11/14/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	20
	6.5	20	544

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	6

Seal Method: **Hand Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **274**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **312 ft. below land surface on 2005-11-14** Measurement Method: **Unknown**

Packers: **Shale Trap 504'**

Type of Pump: **Submersible**

Pump Depth (ft.): **460**

Well Tests: **Estimated** Yield: **100 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: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

Comments: **\$mew**

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	Loose Rock & Top Soil
2	16	Yellow Limestone
16	34	Blue Limestone & Shale
34	178	Gray Limestone
178	200	Brown Limestone
200	277	Gray Limestone & Shale
277	281	Blue Limestone & Shale
281	400	Gray Limestone
400	458	Gray Sandstone
458	485	Gray Sand & Sandstone
485	504	Brown & White Limestone
504	544	Gray Sand & Sandstone

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
6	New	Plastic	0 - 20
4 1/2	New	Plastic	0 - 544
Perf	504	- 544	

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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #276527

Owner:	CAMERON SMILEY	Owner Well #:	1
Address:	7015 fm 3405 LIBERTY HILL, TX 78642	Grid #:	58-18-4
Well Location:	7015 FM3405 LIBERTY HILL, TX 78642	Latitude:	30° 42' 18" N
Well County:	Williamson	Longitude:	097° 52' 04" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/21/2011** Drilling End Date: **11/24/2011**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	9.75	0	20
	8	20	500

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	20	5

Seal Method: **MIXED**

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: **Surface Sleeve Installed**

Water Level: **326 ft. below land surface on 2011-11-22** Measurement Method: **Unknown**

Packers: **RUBBER 40'
RUBBER 400'**

Type of Pump: **Submersible** Pump Depth (ft.): **440**

Well Tests: **Jetted** Yield: **45 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
460	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: **HILL COUNTRY WATER WELL**
POBOX 220
BRIGGS, TX 78608

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOP SOIL
2	19	CALICHE
19	160	GRAY LIME
160	165	GRAY SHALE
165	240	GRAY LIME
240	285	BROWN LIME
285	320	GRAY LIME
320	380	GLENN ROSE WATER
380	420	SANDSTONE
420	430	TRINITY SAND
430	470	SANDSTONE
470	475	TRINITY SAND
475	485	SANDSTONE
485	490	TRINITY SAND
490	500	SANDSTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	NEW	PLASTIC	SDR17 0' / 500'
4.5"	NEW	SCREEN	460' .032
4.5"	NEW	SCREEN	480' .032
4.5"	NEW	SCREEN	500' .032

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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #278608

Owner:	JOHN CROSS	Owner Well #:	1
Address:	800 CR 255 GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	800 CR 255 GEORGETOWN, TX 78633	Latitude:	30° 43' 06" N
Well County:	Williamson	Longitude:	097° 51' 25" W
		Elevation:	942 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **12/20/2011** Drilling End Date: **12/21/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.75	0	20
	6.25	20	520

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	5

Seal Method: **MIXED**

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: **Alternative Procedure Used**

Water Level: **362 ft. below land surface on 2011-12-21** Measurement Method: **Unknown**

Packers: **RUBBER 40'
RUBBER 460'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 40 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: **HILL COUNTRY WATER WELL**
POBOX 220
BRIGGS, TX 78608

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Comments: **SLAB & SLEEVE INSTALLED**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	18	CALICHE
18	80	GRAY LIME
80	95	BROWN LIME
95	190	GRAY LIME
190	280	BROWN LIME
280	375	GRAY LIME
375	450	SANDSTONE
450	460	TRINITY SAND
460	475	SANDSTONE
475	476	TRINITY SAND
476	495	SANDSTONE
495	510	TRINITY SAND
510	520	SANDSTONE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	NEW	PLASTIC	0-520
4.5	NEW	SCREEN	480 .032
4.5	NEW	SCREEN	500 .032
4.5	NEW	SCREEN	520 .032

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STATE OF TEXAS WELL REPORT for Tracking #289414

Owner:	John Solis	Owner Well #:	No Data
Address:	1125 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1125 Cr 257 Liberty Hill, TX 78642	Latitude:	30° 42' 07" N
Well County:	Williamson	Longitude:	097° 52' 10" W
		Elevation:	902 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/7/2012**

Drilling End Date: **6/7/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	440

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 Cement

Seal Method: **Poured 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: **Estimated**

Surface Completion: **Surface Sleeve Installed**

Water Level: **290 ft. below land surface on 2012-06-07** Measurement Method: **Unknown**

Packers: **Rubber 360
Rubber 20**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 50 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: **Highland Drilling Inc**
4145 Hwy 29 E
Burnet, TX 78611

Driller Name: **Clifford Bohannon**

License Number: **4386**

Apprentice Name: **Kenneth Allen Jr**

Apprentice Number: **58232**

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	12	Calechy
12	360	Blue Shale
360	410	Sand w/ Blue Shale Stringers
410	440	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	New	PVC	0-380 SDR-17
4.5	New	Pefr PVC	380-420 SDR-17
4.5	New	PVC	420-440 SDR-17

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #315349

Owner:	Genie Rich	Owner Well #:	1
Address:	531 CR 255 Georgetown, TX 78633	Grid #:	58-18-1
Well Location:	531 Cr 255 Georgetown, TX 78633	Latitude:	30° 42' 57" N
Well County:	Williamson	Longitude:	097° 51' 41" W
		Elevation:	898 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/4/2013**

Drilling End Date: **4/5/2013**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8	0	10
	6.75	10	525

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	-2	10	5 cement

Seal Method: **poured slurry**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **500+**

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data on 2013-04-05**

Measurement Method: **Unknown**

Packers: **Rubber 10'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 20 GPM with 0 ft. drawdown after .5 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
465	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: **Walden Drilling Inc**
1690 Cr 102
Llano, TX 78643

Driller Name: **Scott Purcell**

License Number: **59335**

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	17	yellow brown red clay sand and gravel
17	360	blue red clay sandstone streaks
360	460	blue grey lime
460	525	limestone and sand

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	sdr	17 new pvc +2 - 445 blank	
4.5	sdr	17 new pvc 445-525 slotted .125	

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #439812

Owner:	STERMASTER PROPERTIES	Owner Well #:	1
Address:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Latitude:	30° 42' 42.4" N
Well County:	Williamson	Longitude:	097° 51' 02.39" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/22/2016** Drilling End Date: **11/22/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	540

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	Cement 6 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **100+**

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

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

Method of Verification: **GPS**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	320 ft. below land surface, and 0 GPM artesian flow on 2016-11-22	Measurement Method:	Sonic/Radar
Packers:	Rubber at 140 ft. Rubber at 300 ft. Rubber at 400 ft.		
Type of Pump:	Submersible	Pump Depth (ft.):	460
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: **Alpine water well service**
10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK**

License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	540	NO DATA

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>
6		New Steel		0	20
4.5		New Plastic (PVC)		0	540

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #470686

Owner:	John and Velvet Brethrick	Owner Well #:	No Data
Address:	201 Gazelle Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	201 Gazelle Run Liberty Hill, TX 78642	Latitude:	30° 43' 11.6" N
		Longitude:	097° 52' 50" W
Well County:	Williamson	Elevation:	968 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/26/2018** Drilling End Date: **1/26/2018**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	50
	6.25	50	490

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

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

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

Distance to Septic Field or other
concentrated contamination (ft.): **>120**

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

Method of Verification: **Owner / Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap at 50 ft.
Burlap and Plastic at 390 ft.
Burlap and Plastic at 410 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 15-20 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
420 - 490	Mid Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **A&W Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	15	tan white lime
15	370	blue lime with few strips of shale
370	380	gray limestone and clay
380	420	blue white limestonesome some clay
420	460	tan white limestone (h2o)
460	490	tan and gray limestone

<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	-3	430
4.5	Screen	New Plastic (PVC)	sdr17 0.020	430	490

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STATE OF TEXAS WELL REPORT for Tracking #483521

Owner:	William Pearson	Owner Well #:	No Data
Address:	6750 FM 304 Liberty Hill , TX 78642	Grid #:	58-18-1
Well Location:	6750 FM 304 Liberty Hill, TX 78642	Latitude:	30° 42' 31" N
Well County:	Williamson	Longitude:	097° 51' 51" W
		Elevation:	907 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/13/2018** Drilling End Date: **6/13/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	510

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	50	Cement 7 Bags/Sacks
	0	50	Bentonite 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: **Tape Measure/Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	330 ft. below land surface, and 35 GPM artesian flow on 2018-06-13	Measurement Method:	Sonic/Radar
Packers:	PVC & Burlap at 430 ft. PVC & Burlap at 450 ft.		
Type of Pump:	Submersible		
Well Tests:	Jetted	Yield: 35 GPM	

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
450 - 480	Hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **Frank A Glass**

License Number: **1313**

Comments: **Drilled for Bud Dodson Well Service / gf**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	Top Soil
2	20	Caliche
20	75	Blue Limestone
75	180	Gray Limestone
180	220	Shale
220	340	Gray & Brown Limestone
340	380	Shale
380	400	Brown Limestone
400	490	Hensell
490	510	Hard Brown Limestone

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>
5	Blank	New Plastic (PVC)	SDR17 0.17	0	510
5	Perforated or Slotted	New Plastic (PVC)	SDR17 0.17	450	510

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 #493908

Owner:	Shawna Bucuk and Larry Robertson	Owner Well #:	No Data
Address:	2010 Antelope Pass Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	2010 Antelope Pass Liberty Hill, TX 78642	Latitude:	30° 43' 09.3" N
Well County:	Williamson	Longitude:	097° 52' 52.44" W
		Elevation:	966 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/14/2018** Drilling End Date: **9/14/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	530

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	6 cement 2 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+75**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **394 ft. below land surface on 2018-09-14** Measurement Method: **Sonic/Radar**

Packers: **Burlap at 50 ft.
burlap and plastic at 430 ft.
burlap and plastic at 450 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 25-30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
450 - 530	mid trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

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

Comments: **Drilled for Glass Well Service**
SB

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	15	white tan lime
15	390	blue lime
390	400	grey sand
400	430	grey lime and shale
430	460	tan limestone
460	485	tan white limestone, H2O
485	495	course sand, H2O
495	515	tan white limestone
515	530	grey limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	-3	450
4.5	Screen	New Plastic (PVC)	SDR17 0.020	450	530

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STATE OF TEXAS WELL REPORT for Tracking #496325

Owner:	Jose Cardenas	Owner Well #:	No Data
Address:	121 Game Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	121 Game Run Liberty Hill, TX 78642	Latitude:	30° 43' 11.28" N
Well County:	Williamson	Longitude:	097° 52' 52.5" W
		Elevation:	972 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/14/2018** Drilling End Date: **9/14/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	530

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	6 cement 2 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **396 ft. below land surface on 2018-09-14** Measurement Method: **Sonic/Radar**

Packers: **Burlap at 50 ft.
burlap and plastic at 410 ft.
burlap and plastic at 430 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 25-30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
450 - 530	mid trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Wells**
SB

Report Amended on 12/13/2018 by Request #26673

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	15	white and tan lime
15	390	blue lime
390	400	grey sand
400	430	grey lime and shale
430	460	tan limestone
460	485	tan white limestone, H2O
485	495	course sand, H2O
495	515	tan white limestone
515	530	grey limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	-3	450
4.5	Screen	New Plastic (PVC)	SDR17 0.020	450	510
4.5	Blank	New Plastic (PVC)	SDR17	510	530

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #499635

Owner:	David Martin	Owner Well #:	No Data
Address:	6390 FM 3405 Georgetown, TX 78633	Grid #:	58-18-4
Well Location:	6390 FM 3405 Georgetown, TX 78633	Latitude:	30° 42' 28.62" N
Well County:	Williamson	Longitude:	097° 51' 27.78" W
		Elevation:	907 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 11/20/2018 Drilling End Date: 11/20/2018

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	50
	6.25	50	510

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	-1	50	6 cement 2 benseal Bags/Sacks

Seal Method: Slurry

Sealed By: Driller

Distance to Property Line (ft.): 55

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

Distance to Septic Tank (ft.): +100

Method of Verification: owner

Surface Completion: Surface Sleeve Installed

Surface Completion by Driller

Water Level: 360 ft. below land surface on 2018-11-20 Measurement Method: Sonic/Radar

Packers: burlap and plastic 390' 410'
Burlap at 50 ft.

Type of Pump: Submersible

Well Tests: Estimated Yield: 35-40 GPM

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
410 - 510	mid trinity, hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Well Service**
SB

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	top bedrock
2	10	yellow lime and clay
10	360	blue lime
360	410	grey lime and clay
410	465	tan white limestone (H2O)
465	475	grey tan sand (H2O)
475	490	tan grey limestone
490	510	grey limestone

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	-3	430
4.5	Screen	New Plastic (PVC)	SDR17 0.020	430	490
4.5	Blank	New Plastic (PVC)	SDR17	490	510

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STATE OF TEXAS WELL REPORT for Tracking #509344

Owner:	STERMASTER PROPERTIES	Owner Well #:	2
Address:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Latitude:	30° 42' 42.3" N
Well County:	Williamson	Longitude:	097° 51' 02.38" W
		Elevation:	750 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/11/2019** Drilling End Date: **3/12/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	520

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	Concrete 6 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **330 ft. below land surface on 2019-03-12** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 200 ft.
Rubber at 400 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **460**

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: **Alpine water well service**

**10121 North IH35
Jarrell, TX 76537**

Driller Name: **BOBBY STORK**

License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	TOP SOIL
2	10	YELLOW LIME AND CLAY
10	360	BLUE LIME
360	410	GREY LIME AND CLAY
410	465	TAN LIMESTONE
465	475	GREY SAND
475	490	TAN GREY LIMESTONE
490	510	GREY LIMESTONE
510	520	GREY LIMESTONE AND WATER

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>
6		New Steel		-2	20
4.5		New Plastic (PVC)		0	480
4.5	Perforated or Slotted	New Plastic (PVC)		480	520

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STATE OF TEXAS WELL REPORT for Tracking #518935

Owner: **Jeff Roemer**

Owner Well #: **No Data**

Address: **400 Kine Rea
Georgetown, TX 78633**

Grid #: **58-18-1**

Well Location: **300 Kine Rea
Georgetown, TX 78633**

Latitude: **30° 42' 55" N**

Longitude: **097° 51' 19" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/28/2019**

Drilling End Date: **3/1/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	530

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	Cement 6 Bags/Sacks

Seal Method: **Poured**

Distance to Property Line (ft.): **n/a**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **210**

Distance to Septic Tank (ft.): **n/a**

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data on 2019-03-01**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **500**

Well Tests: **Estimated** **Yield: 100 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy D Arnold**

License Number: **2096**

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 & Loose Rock
1	15	Yellow Limestone
15	23	Blue Limestone & Shale
23	170	Gray Limestone
170	196	Brown Limstone
196	340	Gray Limestone
340	349	Blue Limestone & Shale
349	426	Gray Sandstone
426	467	Gray Sandstone & Sand Strips
467	470	Gray Sand
470	489	Green Sandsstone
489	527	Gray Sand
527	530	Gray Sandstone

<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)		0	530
	Perforated or Slotted		0.032	490	530

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STATE OF TEXAS WELL REPORT for Tracking #520524

Owner:	Martin DeStefano	Owner Well #:	2
Address:	PO Box 160160 Austin, TX 78716	Grid #:	58-18-1
Well Location:	Hwy 183 & CR 207 Liberty Hill, TX 78642	Latitude:	30° 43' 06.42" N
Well County:	Williamson	Longitude:	097° 52' 08.88" W
		Elevation:	932 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/4/2012**

Drilling End Date: **3/5/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	540

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **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: **No Data**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Rubber at 20 ft.
Rubber at 440 ft.**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 25-30 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: **B & B Water Well Service, Inc**
PO Box 232
Bertram, TX 78605

Driller Name: **Joshua Dickinson**

License Number: **54204**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	TOPSOIL
1	20	CALICHE
20	440	BLUE SANDSTONE
440	455	SAND
455	460	BLUE SHALE
460	470	SAND
470	490	GREY SANDSTONE
490	495	SAND
495	540	BLUE SHALE

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	0	480
4.5	Perforated or Slotted	New Plastic (PVC)	SCH40	480	520
4.5	Blank	New Plastic (PVC)	SDR17	520	540

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STATE OF TEXAS WELL REPORT for Tracking #527343

Owner: **Harvey Young**

Owner Well #: **No Data**

Address: **351 CR 256
Liberty Hill, TX 78642**

Grid #: **58-18-4**

Well Location: **351 CR 256
Liberty Hill, TX 78642**

Latitude: **30° 42' 19" N**

Longitude: **097° 51' 31" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/16/2019**

Drilling End Date: **9/17/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	520

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	19	Cement 6 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **188**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **370 ft. below land surface on 2019-09-17**

Packers: **Shale Trap at 20 ft.
Shale Trap at 350 ft.
Shale Trap at 370 ft.
Shale Trap at 406 ft.**

Type of Pump: **Submersible**

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

Well Tests: **Estimated** **Yield: 50 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

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	Fill
1	17	Yellow Limestone
17	108	Gray limestone
108	122	Bronw Limestone
122	250	Gray Limestone
250	262	Blue Limestone & Shale
262	330	Gray Limestone
330	350	Gray Sandstone
350	397	Gray Sandstone & Sand Strips
397	450	Gray Sand
450	505	Gray Sandstone
505	520	Gray Limestone & Shale

<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)		0	520
4.5	Screen	New Plastic (PVC)	0.032	370	450

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 #532072

Owner:	Angel Rameriz	Owner Well #:	No Data
Address:	126 Antelope Pass Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	126 Antelope Pass Liberty Hill, TX 78642	Latitude:	30° 43' 06.18" N
Well County:	Williamson	Longitude:	097° 52' 55.44" W
		Elevation:	967 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **10/7/2019** Drilling End Date: **10/7/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11	0	20
	6.25	20	530

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	30	3 cement Bags/Sacks
	0	20	1 cement 4 holeplug Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **60**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **390 ft. below land surface on 2019-10-07** Measurement Method: **Sonic/Radar**

Packers: **burlap 20', 30'**
burlap and plastic 430', 410'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 25-30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
430 - 530	hensell

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 Drilling Inc**
500 Southland Dr
Burnet, TX 78611

Driller Name: **James Benoit**

License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	white chalk
3	15	soft yellow lime and clay
15	380	blue lime
380	400	gray lime and shale
400	430	blue lime and clay
430	505	tan white limestone, H2O
505	530	grey limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr17	-3	450
6.25	Blank	New Plastic (PVC)	sch 40	0	20
4.5	Screen	New Plastic (PVC)	sdr17 0.020	450	510
4.5	Blank	New Plastic (PVC)	sdr17	510	530

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #533972

Owner: **Jeremy Barclay**

Owner Well #: **No Data**

Address: **2909 Silver Foundation Dr.
Leander, TX 78641**

Grid #: **58-18-1**

Well Location: **711 King Rea
Georgetown, TX 78633**

Latitude: **30° 43' 06" N**

Longitude: **097° 51' 03" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/21/2019**

Drilling End Date: **11/22/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	530

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	Cement 6 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **158**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **370 ft. below land surface on 2019-11-22**

Packers: **Shale Trap at 20 ft.
Shale Trap at 410 ft.
Shale Trap at 465 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **50**

Well Tests: **Estimated** **Yield: 50 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

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 & Loose Rock
1	9	Yellow Limestone
9	30	Blue Limestone
30	350	Gray Limestone
350	410	Gray Sandstone
410	430	Gray Sandstone & Sand
430	451	Brown & White Limestone
451	460	Green Sandstone
460	490	Gray Sand
490	507	Gray Sandstone & Sand
507	530	Gray Limestone

<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)		0	530
	Perforated or Slotted		0.032	410	430
	Perforated or Slotted		0.032	470	510

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STATE OF TEXAS WELL REPORT for Tracking #631028

Owner:	Susan Lyon	Owner Well #:	No Data
Address:	1357 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1357 CR 257 Liberty Hill, TX 78642	Latitude:	30° 42' 14.72" N
Well County:	Williamson	Longitude:	097° 52' 22.25" W
		Elevation:	895 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/29/2022** Drilling End Date: **12/5/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11.75	0	20
	6.75	20	480

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	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **347 ft. below land surface, and 20 GPM
artesian flow on 2022-12-05**

Packers: **Rubber at 40 ft.
Rubber at 400 ft.
Rubber at 420 ft.**

Type of Pump: **Submersible**

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

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

Water Quality:

Strata Depth (ft.)	Water Type
420 - 480	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	18	Caliche
18	220	Gray Limestone
220	240	Tan Limestone
240	340	Gray Limestone
340	360	Dry Sand
360	380	Gray Limestone
380	400	Dry Sand
400	420	Tan Sandstone
420	480	Trinity Sands (Water) / Sandstone

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17 0.032	0	420
4.5	Screen	New Plastic (PVC)	SDR17 0.032	420	440
4.5	Screen	New Plastic (PVC)	SDR17 0.032	440	460
4.5	Blank	New Plastic (PVC)	SDR17 0.032	460	480

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

STATE OF TEXAS WELL REPORT for Tracking #649553

Owner:	Janet Arlitt	Owner Well #:	No Data
Address:	4250 N Hwy 183 Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	4250 N Hwy 183 Liberty Hill, TX 78642	Latitude:	30° 42' 49.8" N
Well County:	Williamson	Longitude:	097° 52' 05.7" W
		Elevation:	918 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/1/2023**

Drilling End Date: **9/6/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10.625	0	10
	8.5	10	560

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:	50	420	Gravel	3/8
	430	450	Gravel	3/8

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	45	Cement 10
	45	50	Bentonite 3
	420	430	Bentonite 4

Seal Method: **Poured**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **404 ft. below land surface on 2023-09-06** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **520**

Well Tests: **Jetted** Yield: **8-10 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
450 - 560	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**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	6	topsoil
6	165	grey limestone
165	180	dark grey limestone mix
180	350	grey limestone
350	389	grey / tan limestone
389	450	dark grey limestone / shale
450	530	grey sandstone wb 400 tds
530	560	sandstone / river rock

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
5	Blank	New Plastic (PVC)		0	520
5	Perforated or Slotted	New Plastic (PVC)		520	560

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Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #654328

Owner:	Art Corker	Owner Well #:	No Data
Address:	300 Martindale Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	300 Martindale Liberty Hill, TX 78642	Latitude:	30° 43' 14.08" N
Well County:	Williamson	Longitude:	097° 51' 58.92" W
		Elevation:	949 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/19/2023** Drilling End Date: **9/20/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11.75	0	20
	6.75	20	560

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	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **75**

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

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

Method of Verification: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **435 ft. below land surface, and 20 GPM
artesian flow on 2023-09-20**

Packers: **Rubber at 40 ft.
Rubber at 420 ft.
Rubber at 440 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **520**

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

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
440 - 540	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

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	10	Yellow Limestone
10	380	Gray Limestone
380	383	Gray Shale
383	440	Gray Limestone
440	500	Trinity Sands (Water)
500	540	Tan Sandstone
540	550	Trinity Sands
550	560	White/ Yellow Limestone

<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 0.032	0	480
4.5	Screen	New Plastic (PVC)	SDR17 0.032	480	500
4.5	Blank	New Plastic (PVC)	SDR17 0.032	500	520
4.5	Screen	New Plastic (PVC)	SDR17 0.032	520	540
4.5	Blank	New Plastic (PVC)	SDR17 0.032	540	560

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

STATE OF TEXAS WELL REPORT for Tracking #665148

Owner:	Ryan Onesto	Owner Well #:	No Data
Address:	204 King Rhea Spur Georgetown, TX 78633	Grid #:	58-18-1
Well Location:	204 King Rhea Spur Georgetown, TX 78633	Latitude:	30° 42' 42.02" N
Well County:	Williamson	Longitude:	097° 51' 05.3" W
		Elevation:	900 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/4/2024**

Drilling End Date: **3/5/2024**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	11.75	0	20
	6.75	20	500

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **460 ft. below land surface, and 20 GPM
artesian flow on 2024-03-14**

Packers: **Rubber at 40 ft.
Rubber at 380 ft.
Rubber at 420 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **460**

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

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
420 - 500	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

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	16	Yellow Limestone
16	180	Gray Limestone
180	190	Brown Limestone
190	400	Gray Limestone
400	420	Dry Sand
420	500	Trinity Sands/ Sandstone (Water)

<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 0.032	0	400
4.5	Screen	New Plastic (PVC)	SDR17 0.032	400	420
4.5	Blank	New Plastic (PVC)	SDR17 0.032	420	440
4.5	Screen	New Plastic (PVC)	SDR17 0.032	440	460
4.5	Blank	New Plastic (PVC)	SDR17 0.032	460	500

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

STATE OF TEXAS WELL REPORT for Tracking #680794

Owner:	Ryan Browning	Owner Well #:	No Data
Address:	209 Gazelle Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	209 Gazelle Run Liberty Hill, TX 78642	Latitude:	30° 43' 12.83" N
Well County:	Williamson	Longitude:	097° 52' 48.97" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/26/2024** Drilling End Date: **8/26/2024**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	8.75	0	20
	6.25	20	550

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>
	-1	30	4 cement, 1 Benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+75**

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **407 ft. below land surface on 2024-08-26** Measurement Method: **Sonic/Radar**

Packers: **Burlap & PVC 430', 410'
Burlap 30'**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 13-15 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
407 - 550	Hensel

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: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Well Service.**

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	topsoil
3	10	white chalk
10	405	blue lime
405	420	gray lime & clay
420	445	tan limestone
455	470	white limestone and sand
470	515	tan white limestone
515	540	gray limestone
540	550	blue 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	-3	470
4.5	Screen	New Plastic (PVC)	SDR17 0.020	470	530
4.5	Blank	New Plastic (PVC)	SDR17	530	550

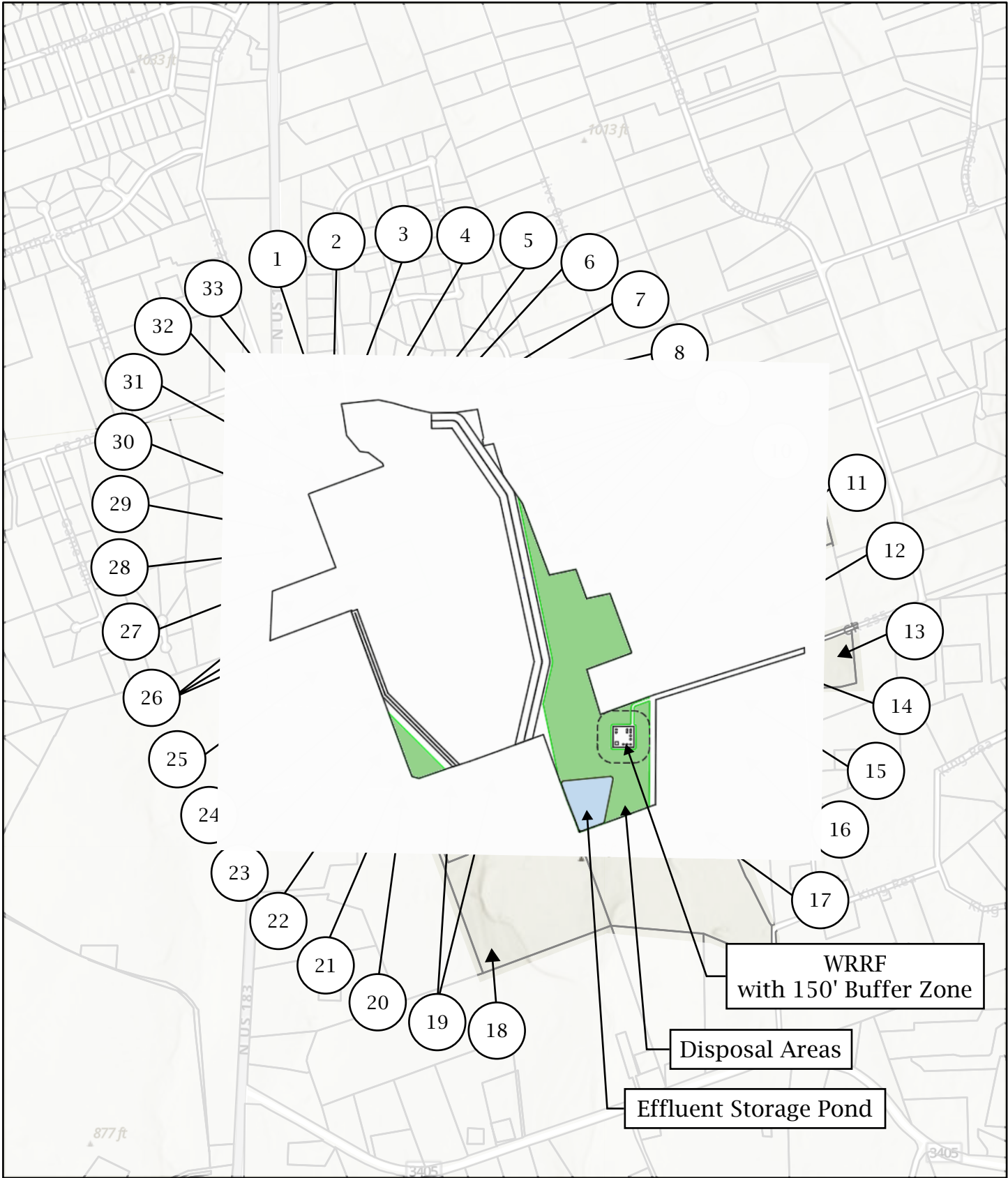
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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.

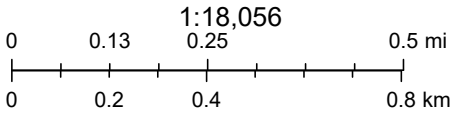
Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY
Affected Landowner Map



11/18/2025, 5:01:41 PM

 Parcels



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Affected Landowners

The following information is from <https://publicdata.wcad.org/parcelmap/> (November 2025)

Map Label	Property ID	Owner Name	Mailing Address
1	R404265	MARTIN, BRYAN & LADONNA	104 MARTINDALE AVE LIBERTY HILL, TX 78642
2	R404266	SMITH, DANIEL B & ABBY R	108 MARTINDALE AVE LIBERTY HILL, TX 78642
3	R404267	REAGAN, BRENDON & MIGDANIA	200 MARTINDALE AVE LIBERTY HILL, TX 78642
4	R557437	PERRY STEVEN ROSE & CYNTHIA TRUMAN ROSE TR OF STEVE & CINDY ROSE FMLY TST	208 MARTINDALE AVE LIBERTY HILL, TX 78642
5	R557438	NIMMONS, TODD PATRICK	212 MARTINDALE AVE LIBERTY HILL, TX 78642
6	R557439	GOOD, AARON DANIEL	216 MARTINDALE AVE LIBERTY HILL, TX 78642
7	R557440	SANTILLO, VINCENT D & HILDEGARD S	220 MARTINDALE AVE LIBERTY HILL, TX 78642
8	R557441	ALLISON, JEFFREY WAYNE & KERRI LEA	300 MARTINDALE AVE LIBERTY HILL, TX 78642
9	R682142	CORKER DEVELOPMENT LLC	104 KEN PELLAND CV LIBERTY HILL, TX 78642
	R682159		
	R682158		
	R682157		
	R682156		
	R682155		
	R682154		
	R682153		
	R682152		
	R682151		
10	R544192	ROUNTREE, BRAD	PO BOX 71 CEDAR PARK, TX 78627
	R544193		
11	R418537	LOPEZ ELFEGO & CELIA (LE)	639 CR 255 GEORGETOWN, TX 78633
12	R432291	THURMAN BRITTEN DEAN & SANDRA ELLEN DOEHRING TRUSTEES THURMAN FAMILY TRUST	1201 CR 255 GEORGETOWN, TX 78633
13	R022400	CARTER, JULIE & ROGER	600 COUNTY ROAD 255 GEORGETOWN, TX 78633
14	R534718	GARZA, LINDA K & DAMIAN X	555 CR 255 GEOREGETOWN, TX 78633

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Affected Landowners

15	R484868	STALEY, THOMAS F & MARTA K	541 COUNTY ROAD 255 GEORGETOWN, TX 78633
16	R376285	RICH, GENIE	531 COUNTY ROAD 255 GEORGETOWN, TX 78633
17	R380475	JONES, MICHAEL G (TOD) & JEANA A (TOD)	PO BOX 298 LIBERTY HILL, TX 78642
18	R330209	ARLITT, JANET Y	200 FOUST DR LIBERTY HILL, TX 78642
19	R372098	NAYAN STAR PROPERTIES SERIES B	P.O. BOX 200267 11900 JOLLYVILLE RD AUSTIN, TX 78720
	R679479		
20	R381191	SANDOVAL, JOSE A & CLAUDIA S	128 CRESTVIEW DR LIBERTY HILL, TX 78642
21	R381190	EGUIA, FRANCISCO VALENTIN & LETICIA	127 CRESTVIEW DR LIBERTY HILL, TX 78642
22	R332672	BULL TOWN VENTURES LLC	PO BOX 1663 LEANDER, TX 78646
23	R358958	WILSON, CLARENCE ANDREW	132 TERRACE CV LIBERTY HILL, TX 78642
24	R358957	RUIZ, MARC & CHRISTY	129 TERRACE CV LIBERTY HILL, TX 78642
25	R338136	MAAS REAL ESTATE LLC	1705 E NEW HOPE DR LEANDER, TX 78641
26	R509579	STAR DEVELOPERS LLC	208 SUE ANN ROSE DR AUSTIN, TX 7871
	R509580		
	R415253		
27	R415251	NGUYEN, THU THI	4732 N HWY 183 LIBERTY HILL, TX 78642
28	R415250	ROCKHARD RENTALS LLC	303 CREEKSIDE CV CEDAR PARK, TX 78613
29	R415249	SCHOENING, JUDITH KAY	617 COUNTY ROAD 281 LEANDER, TX 78641
30	R415248	ROJAS, SAMUEL SANCHEZ & KEVIN ALVARADO NUNEZ	10201 BOCK RD BUDA, TX 78610
31	R512315	ESPARZA, MIGUEL & MARIA	101 SUNSET RD GEORGETOWN, TX 78633
32	R415246	HUNTERS CREEK PROPERTIES LLC	4892 N HIGHWAY 183 LIBERTY HILL, TX 78642
33	R512314	VANSPLACE LLC	2509 SUTHERLAND ST AUSTIN, TX 78746

MARTIN BRYAN & LADONNA 104 MARTINDALE AVE LIBERTY HILL TX 78642	SMITH DANIEL B & ABBY R 108 MARTINDALE AVE LIBERTY HILL TX 78642	REAGAN BRENDON & MIGDANIA 200 MARTINDALE AVE LIBERTY HILL TX 78642
PERRY STEVEN ROSE & CYNTHIA TRUMAN ROSE TR OF STEVE & CINDY ROSE FMLY TST 208 MARTINDALE AVE	NIMMONS TODD PATRICK 212 MARTINDALE AVE LIBERTY HILL TX 78642	GOOD AARON DANIEL 216 MARTINDALE AVE LIBERTY HILL TX 78642
SANTILLO VINCENT D & HILDEGARD S 220 MARTINDALE AVE LIBERTY HILL TX 78642	ALLISON JEFFREY WAYNE & KERRI LEA 300 MARTINDALE AVE LIBERTY HILL TX 78642	CORKER DEVELOPMENT LLC 104 KEN PELLAND CV LIBERTY HILL TX 78642
ROUNTREE BRAD PO BOX 71 CEDAR PARK TX 78627	LOPEZ ELFEGO & CELIA (LE) 639 CR 255 GEORGETOWN TX 78633	THURMAN BRITTEN DEAN & SANDRA ELLEN DOEHRING TRUSTEES THURMAN FAMILY TRUST 1201 CR 255
CARTER JULIE & ROGER 600 COUNTY ROAD 255 GEORGETOWN TX 78633	GARZA LINDA K & DAMIAN X 555 CR 255 GEORGETOWN TX 78633	STALEY THOMAS F & MARTA K 541 COUNTY ROAD 255 GEORGETOWN TX 78633
RICH GENIE 531 COUNTY ROAD 255 GEORGETOWN TX 78633	JONES MICHAEL G (TOD) & JEANA A (TOD) PO BOX 298 LIBERTY HILL TX 78642	ARLITT JANET Y 200 FOUST DR LIBERTY HILL TX 78642
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ROCKHARD RENTALS LLC 303 CREEKSIDE CV CEDAR PARK TX 78613	SCHOENING JUDITH KAY 617 COUNTY ROAD 281 LEANDER TX 78641	ROJAS SAMUEL SANCHEZ & KEVIN ALVARADO NUNEZ 10201 BOCK RD BUDA TX 78610

ESPARZA MIGUEL & MARIA
101 SUNSET RD
GEORGETOWN TX 78633

HUNTERS CREEK PROPERTIES LLC
4892 N HIGHWAY 183
LIBERTY HILL TX 78642

VANSPLACE LLC
2509 SUTHERLAND ST
AUSTIN TX 78746

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Original Photos

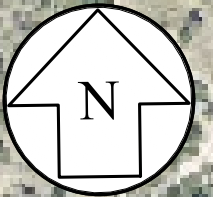


1. WWTF Site



2. Disposal Area

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)
Original Photos Map



APPLICANT PROPERTY

2

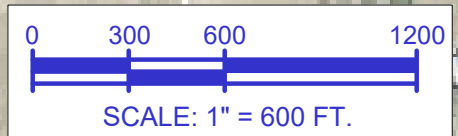
1

WATER RESOURCE RECOVERY FACILITY

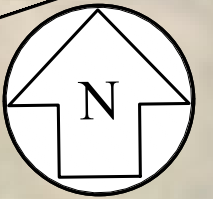
150' BUFFER ZONE

DISPOSAL AREA

EFFLUENT STORAGE POND



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)
Site Map

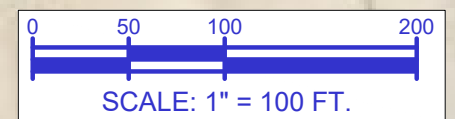


APPLICANT PROPERTY

WATER RESOURCE RECOVERY FACILITY

150' BUFFER ZONE

DISPOSAL AREA





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.0655

2-Hr Peak Flow (MGD): 0.262

Estimated construction start date: November 2026

Estimated waste disposal start date: May 2027

B. Interim II Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD): 0.131

2-Hr Peak Flow (MGD): 0.524

Estimated construction start date: November 2027

Estimated waste disposal start date: May 2028

D. Current Operating Phase

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Please see Attachment – Treatment Process and Unit Sizing.

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)
<u>Please see Attachment – Treatment Process and Unit Sizing</u>		

C. Process Flow Diagram

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

Attachment: Process Flow Diagram

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

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

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

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

- Latitude: 30.720858
- Longitude: -97.865606

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

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

disposal site.

Attachment: Site Map

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

The treatment facility will serve a new residential subdivision in Williamson County.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
<u>Featherhook Collection System</u>	<u>SV2 Alexander LLC</u>	<u>Privately-owned</u>	<u>1,500+</u>

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase:

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.

The buffer zone will be met by ownership.

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 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

4. *Grease and decanted liquid disposal*

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

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

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, attach a Sewage Sludge Solids Management Plan. 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 or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

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

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

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☒ No

If **yes**, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

☐ Yes ☒ No

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

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

complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

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

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

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, †					
Oil & Grease, mg/l					
Alkalinity (CaCO ₃)*, mg/l					

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

Facility Operator's License Classification and Level: To be determined

Facility Operator's License Number: To be determined

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process:

C. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
<u>Other</u>					

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Monofill – transported to processing facility for disposal

D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

E. Transportation method

Method of transportation (truck, train, pipe, other): To be determined

Name of the hauler: To be determined

Hauler registration number: To be determined

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of Biosolids	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:
Attachment:
- 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:
- Copy of the closure plan
Attachment:
- Copy of deed recordation for the site
Attachment:
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment:
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment:
- Procedures to prevent the occurrence of nuisance conditions
Attachment:

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:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

A. Additional authorizations

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

☐ Yes ☒ No

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

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 55)

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Vinod Nagi – SV2 Alexander LLC

Title: Authorized Signatory

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

The development will generate an estimated 65,500 gpd (gallons per day) at Interim Phase I, and 131,000 gpd of domestic strength wastewater at full buildout. The flows were calculated using 450 single-family units at a rate of 175 gpd per single-family unit and 250 multi-family units at a rate of 160 gpd per multi-family unit. The usage rate assumption was based on actual flows from similar developments in the general vicinity (generally 120 gpd per unit with a factor of safety of 1.4).

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of:

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

¹ <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

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	0.131	350
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	0.131	
AVERAGE BOD ₅ from all sources		350

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥2

Other:

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l:

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l:

Other:

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥2

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1-4 mg/l after 20 minutes detention time at peak flow

OR Dechlorination process:

☒ Ultraviolet Light: 10 seconds contact time at peak flow

☐ Other:

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Design Calculations

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

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

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: Wind Rose

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

If **any of the above**, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**:

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

Attach a solids management plan to the application.

Attachment: Solids Management Plan

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- | | |
|---|--|
| <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 67)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
<u>Phase I</u> <u>Bermuda Grass and Winter Rye</u> <u>Community Green Space</u>	<u>18.8</u>	<u>65,500</u>	<u>Y</u>
<u>Final Phase</u> <u>Bermuda Grass and Winter Rye</u> <u>Community Green Space</u>	<u>37.6</u>	<u>131,000</u>	<u>Y</u>

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
I	4.0	20.1	See Site Map	Synthetic Membrane or Clay Liner

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

Attachment: Liner Certification Letter

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

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

☐ Yes ☒ No

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

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

FEMA NFHL Viewer: 48491Co275E

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

Tailwater is controlled using perimeter berms and grading to retain effluent within the land application site and prevent runoff. Rainfall run-on is managed with diversion ditches and site grading to prevent stormwater from adjacent areas from entering the land application site.

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

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

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

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
<u>Please see Attachment – Water Well Data</u>				

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

Attachment: Water Well Data

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Groundwater Quality Report

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment:

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

A. Soil map

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

Attachment: USDA Soils Map

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: Soil Report

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
<u>Please see Attachment – Soil Report</u>				

Section 9. Effluent Monitoring Data (Instructions Page 70)

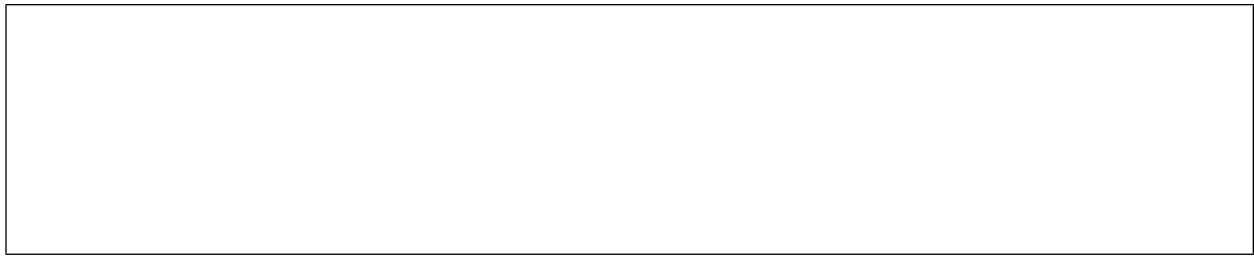
Is the facility in operation?

☐ Yes ☒ No

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.

[illegible]

TCEQ-10054 (10/17/2024) Domestic Wastewater Permit Application Technical Report



DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

Area under irrigation, in acres: 37.6

Design application frequency:

hours/day 0.33 (20 min/d) And days/week 7

Land grade (slope):

average percent (%): 3-5

maximum percent (%): 8-10

Design application rate in acre-feet/acre/year: 3.9

Design total nitrogen loading rate, in lbs N/acre/year: 318

Soil conductivity (mmhos/cm): See Soil Report

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: Water Balance and 3.1 Surface Land Disposal Engineering Report

B. Evaporation ponds

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

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

Attachment:

C. Evapotranspiration beds

Number of beds:

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:

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 72)

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

Attachment:

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Design Calculations

The following criteria and equations were used for the calculations:

Minimum Equalization Basin Volume

$$V = 2.5Qt, \text{ where } Q = \text{phase flow (gpd)} \\ t = 120 \text{ minutes} = 0.0833 \text{ days}$$

Minimum Sludge Holding Tank Volume

$$V = 0.02Qt, \text{ where } Q = \text{phase flow (gpd)} \\ t = 10 \text{ days}$$

Phase I (0.0655 MGD)

Flow	65,500	gpd
2-hour Peak Flow	262,000	gpd
Equalization Basin	13,646	gallons
Sludge Holding Tank	13,100	gallons

Final Phase (0.131 MGD)

Flow	131,000	gpd
2-hour Peak Flow	524,000	gpd
Equalization Basin	27,292	gallons
Sludge Holding Tank	26,200	gallons



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

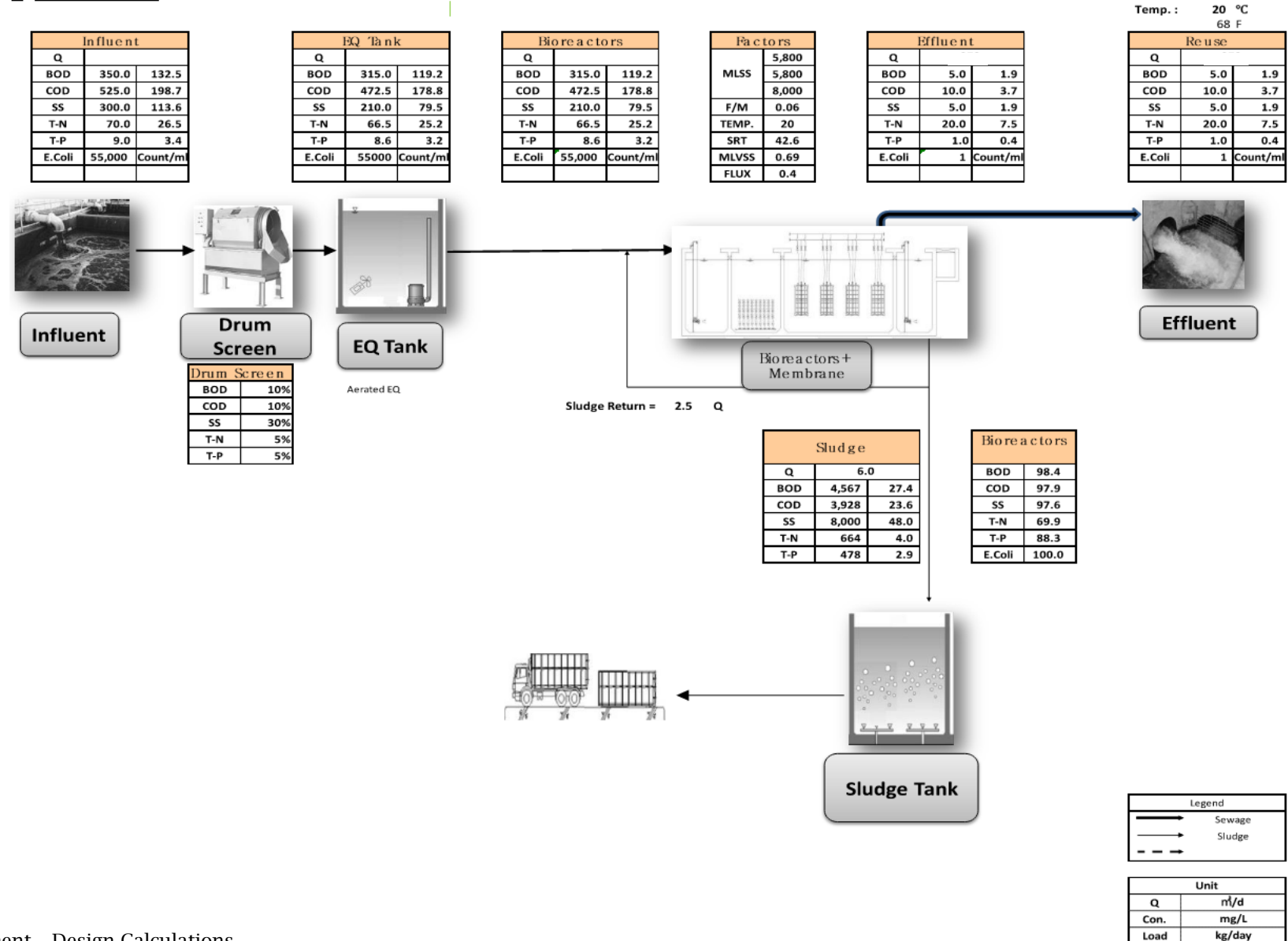
Design Calculations

Bioreactor Calculation							
1. Design Calculation							
1.1 Influent (m3/day)		(gal/day)		1.2 Factors			
Items	unit	m3/day	gal/day	Items	HRT	19.0	hr
	Average		131,000		SRT	25.0	day
					C/N	4.7	
	Design Flow		131,000		C/P	29.6	
					Temp	20.0	°C
					Sludge return	250	%
1.3 Influent Quality							
Items	BOD	COD _{Mn}	SS	T-N	T-P	E.coli.	Remarks
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(Count/mL)	
Water quality	350.0	525.0	300.0	70.0	9.0	55000	
1.4 Influent and Effluent Water Quality							
Items	BOD	COD _{Mn}	SS	T-N	T-P	E.coli.	
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(Count/mL)	
Influent quality	350.0	525.0	300.0	70.0	9.0	55,000	
Effluent quality	5.0	10.0	5.0	20.0	1.0	1.26	
1.5 Bioreactor Volume							
Items	Width	Length	Depth	Height	tank	Volume	HRT
	(mW)	(mL)	(mHe)	(mH)	(#)	(m ³)	(hr)
Anoxic	2.4	12.0	2.2	2.3	2	124.1	7.9
Oxic	2.4	12.0	2.1	2.3	2	118.4	7.5
MBR	2.4	12.0	2.0	2.3	1	56.4	3.6
Total						363.8	19.0
Note: If bioreactor volume sizes are above the volume calcauted by 30-40%, it will be okay.							
1.6 Sludge Production				1.7 Air Requirement			
Items	Sludge (m ³ /day)		Water contents (%)	Items	Oxic reactor (m ³ /min)		3.11
	6.0		99.2		MBR (m ³ /min)		12.0

FEATHERHOOK WATER RESOURCE RECOVERY FACILITY (WRRF)

Design Calculations

2 MASS BALANCE



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Design Calculations

Items	Ranges			Design Values	Unit
Anoxic/Oxic MLSS (X_{TSR})	4,000	~	9,500	5,800	mg/L
Oxic MLSS (X_{OX})	6,000	~	12,000	8,000	mg/L
MLVSS/MLSS(X_V)	MLVSS	/	MLSS	0.7	
F/M ration	0.01	~	0.30	0.06	kgBOD/kgMLVSS·d
Sludge return (X_{r1})	50	~	400	250	%
Sludge retention time (SRT)	15	~	50	35.6	day
Bio reactor temperature	10	~	30	20	°C
Bio reactor pH	6.8	~	7.2	7.0	
Dissolved Oxygen concentration (DO)	2.0	~	5.0	2.0	mg/L
$Y_{(net)}$, Sludge yield	0.30	~	0.60	0.47	mgVSS/mgBOD _{rem}
b, Sludge decay coefficient	0.05	~	0.30	0.15	day ⁻¹
$\mu_{N_{im}}$, Max nitrifier production	0.30	~	0.60	0.47	day ⁻¹
$Y_{N(net)}$, Nitrifier yield	0.10	~	0.30	0.20	mgVSS/mgNH ₄ N _{rem}
K_O , O ₂ Half saturation coefficient	0.40	~	0.60	0.50	O ₂ mg/L
K_N NH ₄ -N Half saturation coefficient	0.20	~	5.00	0.74	NH ₄ -N mg/L
Membrane Flux	Design			0.40	m ³ /m ² ·d
				16.7	LMH
				9.8	GFD
SNR, Specific Nitrification Rate	Oxic			2.70	mgNH ₄ N/gMLVSS·hr
SDNR, Specific denitrification Rate				2.70	mgNO ₃ N/gMLVSS·hr
SPUR				1.24	mg P/gMLSS·hr
BOD/ P_{rel}				12.0	P releasing
BOD/ No_x - N_{rem}				2.86	Denitrification
N/VSS, Nitrogen % in Biomass	5.00	~	12.0	12.0	%
P/VSS, Phosphorus % in Biomass	1.00	~	7.50	5.8	P uptaking (%)

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Treatment Process and Unit Sizing

Treatment Process

The Featherhook Water Resource Recovery Facility will be a Membrane Bioreactor system consisting of several process trains. The system will have a primary screen, equalization tanks, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV disinfection. The design will be in accordance with Texas Administrative Code Title 30, Part 1: Texas Commission on Environmental Quality (TCEQ) Chapter 217 (Design Criteria for Domestic Wastewater Systems).

Treatment Unit Sizing

Phase I (0.0655 MGD)

Headworks with Screening	
Equalization Tank	(1) 12' x 16' x 10 SWD = 14,362 gallons
Sludge Holding Tank	(1) 16' dia x 10 SWD = 15,032 gallons
Process Units (MBR)	(1) 40' x 12' x 10' SWD = 35,904 gallons
UV Disinfection	UV dose of 80 mJ/cm ² and a UVT of 65%

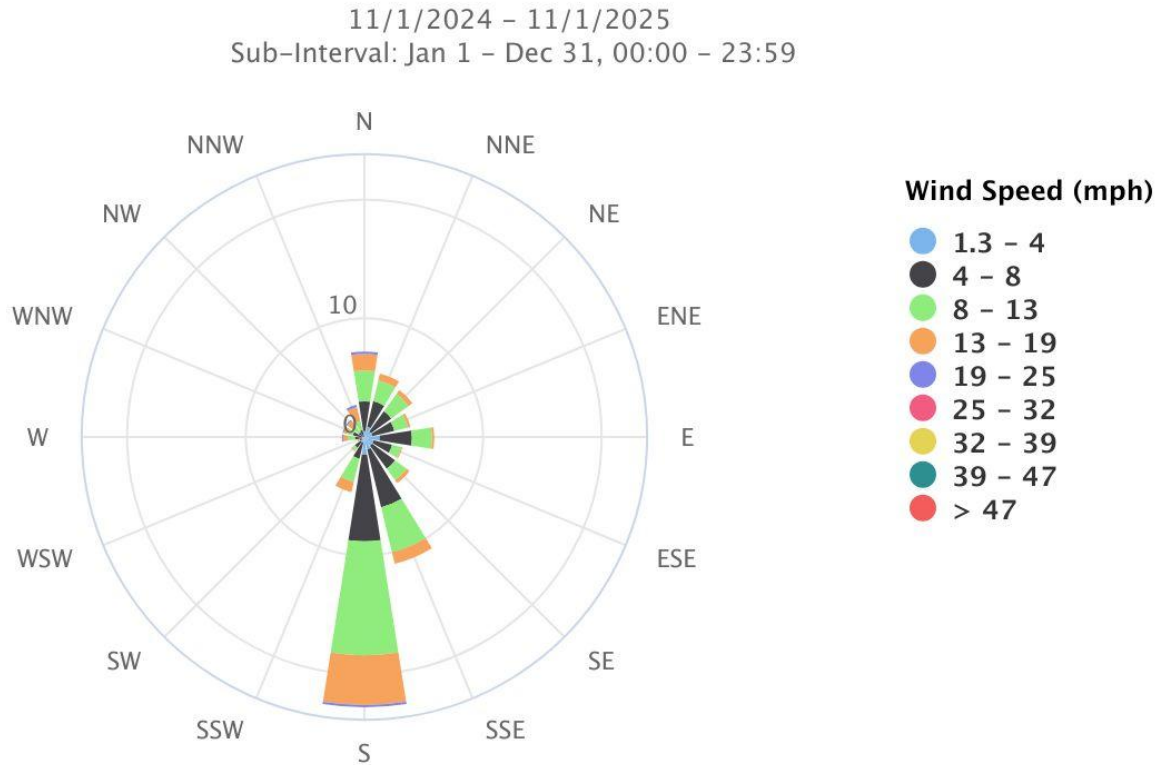
Final Phase (0.131 MGD)

Headworks with Screening	
Equalization Tank	(2) 12' x 16' x 10 SWD = 28,724 gallons
Sludge Holding Tank	(2) 16' dia x 10 SWD = 30,064 gallons
Process Units (MBR)	(2) 40' x 12' x 10' SWD = 71,808 gallons
UV Disinfection	UV dose of 80 mJ/cm ² and a UVT of 65%

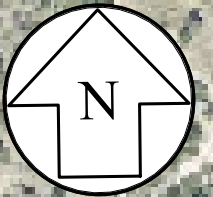
FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Wind Rose

The following Burnet Municipal AP (TX) Wind Rose is generated from <https://mrcc.purdue.edu>



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)
Disposal Phasing Map



APPLICANT PROPERTY

100' SETBACK FROM WATERS OF THE STATE

DISPOSAL AREA

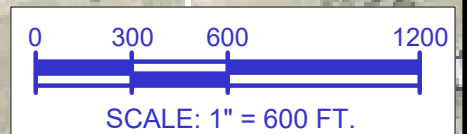
A MINIMUM OF 18.8 ACRES OF 37.6 ACRES SHOWN
WILL BE USED FOR INTERIM PHASE I

WATER RESOURCE RECOVERY FACILITY

150' BUFFER ZONE

DISPOSAL AREA
37.6 ACRES WILL BE USED
FOR THE FINAL PHASE

50-DAY EFFLUENT STORAGE POND
6.55 MG





November 2025

Jamie L. Miller P.E.
JA Wastewater. LLC
3410 Far West Blvd, Ste 170
Austin, TX 78731

Subject: Liner Certification for Featherhook Water Resource Recovery Facility

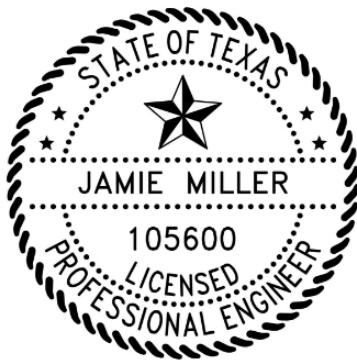
To Whom it May Concern,

The proposed liner for the storage pond for the Featherhook Water Resource Recovery Facility will be required to be designed to meet the liner requirements of 30 TAC Chapters 309 and 217. The liner system will consist of either a synthetic membrane, or a clay liner.

Sincerely,

A handwritten signature in cursive script that reads 'Jamie L. Miller'.

Jamie L. Miller, P.E.
President
Firm Number F-23372



A handwritten signature in cursive script that reads 'Jamie L. Miller'.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Annual Cropping Plan

a. Soils map depicting the location of the crops proposed or currently being grown. These locations should be identified by field and crop on the soils map.

A USDA Soils Map has been provided with the permit application.

b. All types of crops and acreage irrigated for each crop, including warm and cool season crops.

The 37.6-acre area will be seeded with Bermuda and Winter Rye grasses.

c. Crop yield goals or estimates.

Yield estimate: Bermuda grass will produce about 1 ton per acre with no applied fertilizer. Winter Rye produces 2 to 3 tons per acres.

d. Growing seasons for each crop including months the field is left fallow (no crops).

Growing season for Bermuda grass is from April through October. The growing season for Winter Rye is November through March, the fields are never left fallow.

e. Nutrient requirements for each crop, including additional fertilizer requirements for each crop, proposed additional fertilizer applications for each crop, and methods of fertilizer application for each crop, based on annual soil sampling and analysis.

The proposed design total nitrogen loading rate is 318 lb/acre/day or 0.87 lb/acre/year. Bermuda grass can utilize large amounts of nitrogen, with excellent yield response at 400 lbs/acre/ year. (See Nutrient Demand High in Bermudagrass by Darst, et al. 1996). To most effectively use nitrogen, other nutrients are required such as phosphorus and potassium. These nutrient levels will be monitored through annual soil analysis and supplemented if required. Additional fertilizer is not anticipated but a manual spreader would be used if needed.

f. Provide the minimum and maximum harvest height for the crop (e.g. mowing height of grasses).

Minimum mowing height will be such that the grass is not scorched, approximately 3". The maximum growing height will be determined by the operator, 18" is anticipated maximum height prior to mowing.

g. Supplemental watering requirements for each crop.

No supplemental watering is anticipated.

h. Salt tolerances of each crop.

Bermuda grass is highly salt tolerant, Winter Rye is considered to be intermediate in salt tolerance.

i. Describe the harvesting method and the proposed number of harvests for each crop.

The irrigation fields will be regularly mowed with clippings hauled off.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Annual Cropping Plan

j. If the proposed crop is existing native vegetation that will not be harvested, include a justification that the non-removal of crops will not lead to a buildup in nutrients. If the proposed system is drip irrigation with a proposal to use the existing forested vegetation as a crop, then provide a vegetation survey by a certified arborist describing at a minimum: (1) the number of mature ashe juniper (*Juniperus ashei*) and oaks (*Quercus virginiana*) trees per acre, (2) the number of other trees per acre, (3) percent of overstory canopy cover, (4) the extent of open spaces, and (5) areas with forbs and grasses expressed as percent of the land of each application site. A mature tree is one with a minimum height of 14 feet.

Varies

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Groundwater Quality Report

Background

The Featherhook Water Resource Recovery Facility will serve a new development that generates 131,000 gallons per day at full build-out. The treated effluent will be disposed of via surface spray irrigation of 37.6 acres at full build-out.

Aquifer

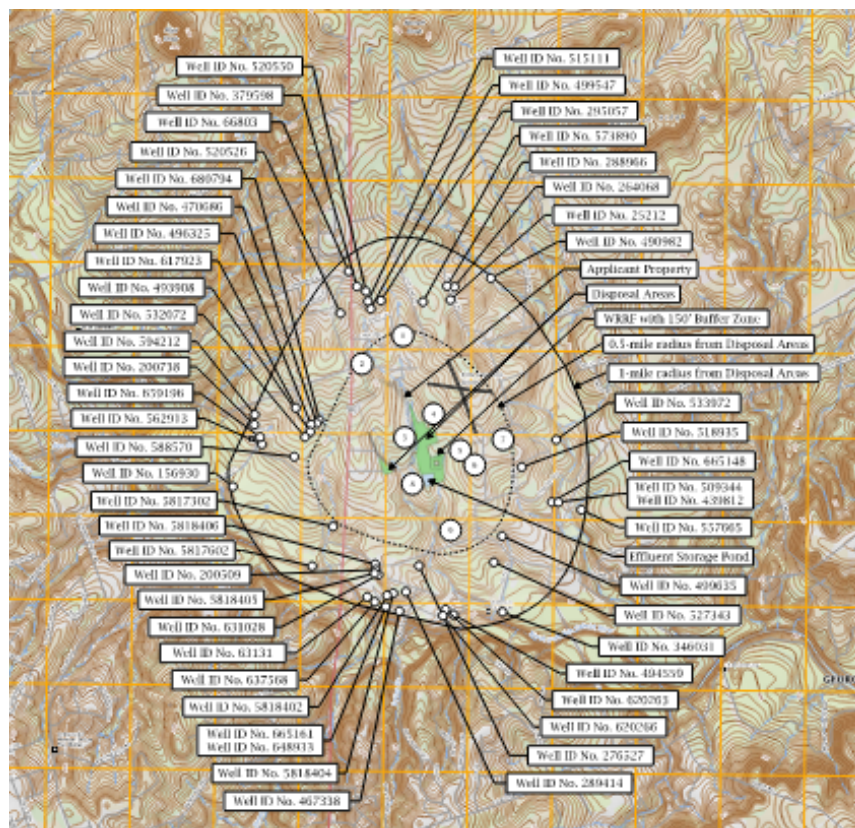
The development is on the Edward's Aquifer Contributing Zone.

Nearby Well Information

A USGS map showing all wells within 1 mile of the property boundaries has been included with the application. A well reference list with well attributes such as the well ID number, well depth, well status, and proposed management practice is provided with this application. The well logs for the wells on the reference list are included with this application. There are no monitoring wells available, and therefore no groundwater quality baseline data has been established. Below is a portion of the USGS map depicting the WRRF site, effluent disposal areas, 0.5 mi and 1-mile radius from the property boundaries, and well locations.

Impact on Local Groundwater Resources

The wastewater effluent is used to irrigate publicly accessible fields. The effluent applied to the land has a maximum application rate of 0.08 gal/sqft/day to ensure the effluent is taken up by the crop root systems and that potential contaminants do not migrate below the root zone. The treated effluent will be stored in a pond with a liner certified by a Texas Professional Engineer prior to being conveyed to the disposal areas.

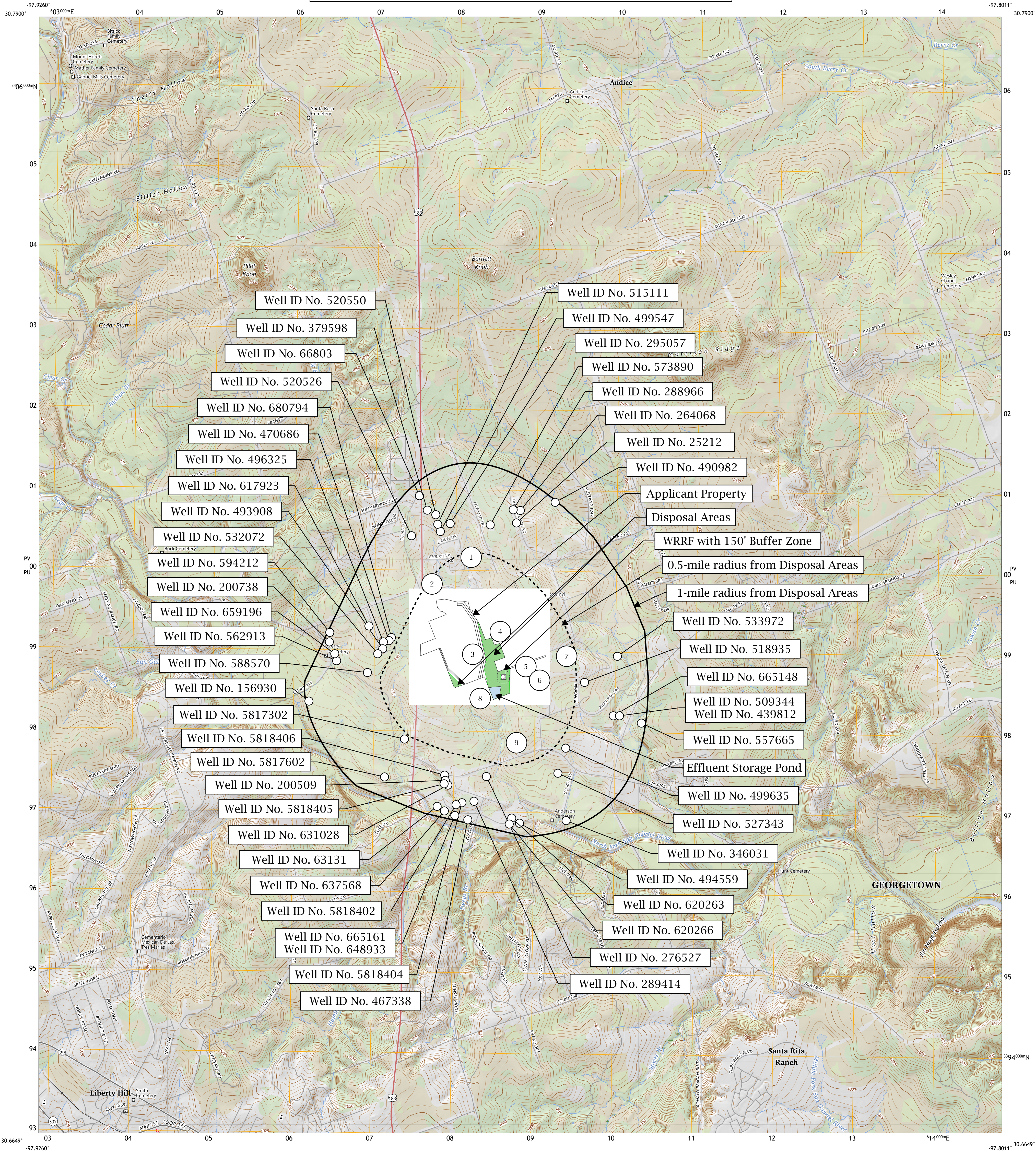




U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

FEATHERHOOK WATER RESOURCE RECOVERY FACILITY (WRRF) TLAP Map

7.5-MINUTE TOPO QUADRANGLE
TEXAS - CUSTOM EXTENT
7.5-MINUTE TOPO

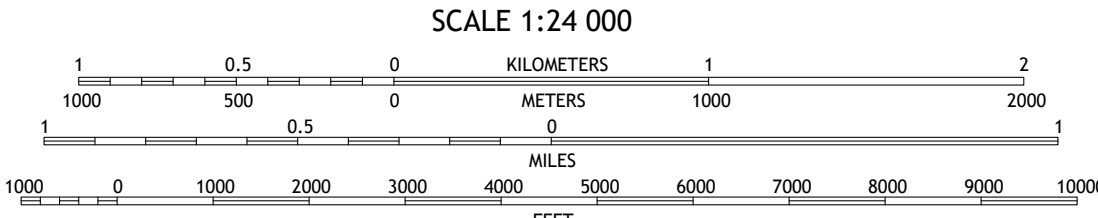
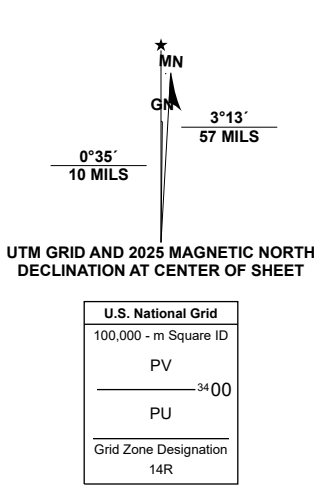


Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R
Data is provided by The National Map (TNM), is the best available at the time of map
generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

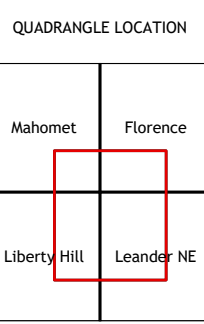
This map is not a legal document. Boundaries may be generalized for this map scale.
Private lands within government reservations may not be shown. Obtain permission
before entering private lands. Temporal changes may have occurred since these data
were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: <https://nationalmap.gov>

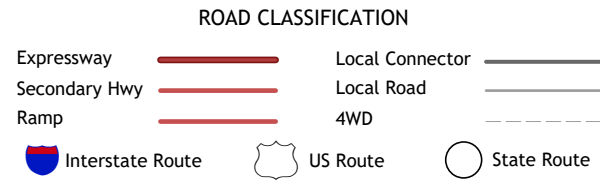


CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



ADJOINING QUADRANGLES



7.5-MINUTE TOPO, TX
2025



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Table 3.0(3) Water Well Data

The following information is from

<https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer> (November 2025)

Map Label	Well ID	Well Use	Producing (Y/N)	Open, cased, capped, or plugged	Proposed Best Management Practice
1	129345	Domestic	Y	Cased	Buffer Requirement will be met
2	101944	Domestic	Y	Cased	Buffer Requirement will be met
3	520524	Domestic	Y	Cased	Buffer Requirement will be met
4	654328	Domestic	Y	Cased	Buffer Requirement will be met
5	249015	Irrigation	Y	Cased	Buffer Requirement will be met
6	315349	Domestic	Y	Cased	Buffer Requirement will be met
7	278608	Domestic	Y	Cased	Buffer Requirement will be met
8	649553	Domestic	Y	Cased	Buffer Requirement will be met
9	483521	Domestic	Y	Cased	Buffer Requirement will be met



STATE OF TEXAS PLUGGING REPORT for Tracking #63131

Owner:	Hartie, Nick	Owner Well #:	No Data
Address:	13416 Briar Hellar Austin, TX 78729	Grid #:	58-18-4
Well Location:	1515 CR 256 Liberty Hill, TX 78642	Latitude:	30° 42' 05" N
Well County:	Williamson	Longitude:	097° 52' 26" W
		Elevation:	No Data

Well Type: **Withdrawal of Water**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	No Data	License Number:	No Data
Borehole:	No Data		

Plugging Information

Date Plugged: **3/31/2010** Plugger: **Mike Marx**

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:

Dia (in.)	Top (ft.)	Bottom (ft.)
5	2	

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	2	2 1/2 Cement
2	50	14 3/8 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: **Marx Pump Service Inc.**
PO Box 908
Hutto, TX 78634

Driller Name: **Mike Marx** License Number: **4125**

Comments: **Depth of well unknown.**
^EO

STATE OF TEXAS PLUGGING REPORT for Tracking #66803

Owner: **Audrey Delisle**

Owner Well #: **No Data**

Address: **5731 Hwy 183 N
Liberty Hill, TX 78642**

Grid #: **58-17-3**

Well Location: **5731 Hwy 183 N
Liberty hill, TX 78642**

Latitude: **30° 44' 10" N**

Longitude: **097° 52' 36" W**

Well County: **Williamson**

Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **N/A**

License Number: **No Data**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	4		285

Plugging Information

Date Plugged: **10/15/2010**

Plugging: **Clifford Bohannon**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

Plug(s) Placed in Well:

<i>Dia (in.)</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4		

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description (number of sacks & material)</i>
0	285	32 Cement

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: **Highland Drilling Inc**

**4145 Hwy 29 E
Burnet, TX 78611**

Driller Name: **Clifford Bohannon**

License Number: **4386**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #200738

Owner:	Joe Owen	Owner Well #:	No Data
Address:	151 County road 211 Liberty Hill , TX 78642	Grid #:	58-17-3
Well Location:	151 County road 211 Liberty Hill, TX 78642	Latitude:	30° 43' 11.2" N
Well County:	Williamson	Longitude:	097° 53' 17.2" W
		Elevation:	No Data
Well Type:	Unknown		

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	No Data	License Number:	No Data

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4	0	435

Plugging Information

Date Plugged: 7/15/2020 Plugger: Brice Bormann/Josph Dottavio

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:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	-2	80

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	10	Cement 4 Bags/Sacks
10	435	Bentonite 60 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: Texan Water
161 Industrial Loop
Fredericksburg, TX 78624

Driller Name:	Brice Bormann	License Number:	54855
Apprentice Name:	Josphe Dottavio	Apprentice Number:	59883
Comments:	No Data		

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

State Well Number	5817302
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.708889
Latitude (degrees minutes seconds)	30° 42' 32" N
Longitude (decimal degrees)	-97.878611
Longitude (degrees minutes seconds)	097° 52' 43" W
Coordinate Source	+/- 1 Second
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	896
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	465
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	H.O.Lay
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	11/2/1994
Last Update Date	3/4/2020

Remarks	
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Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel			0	465

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

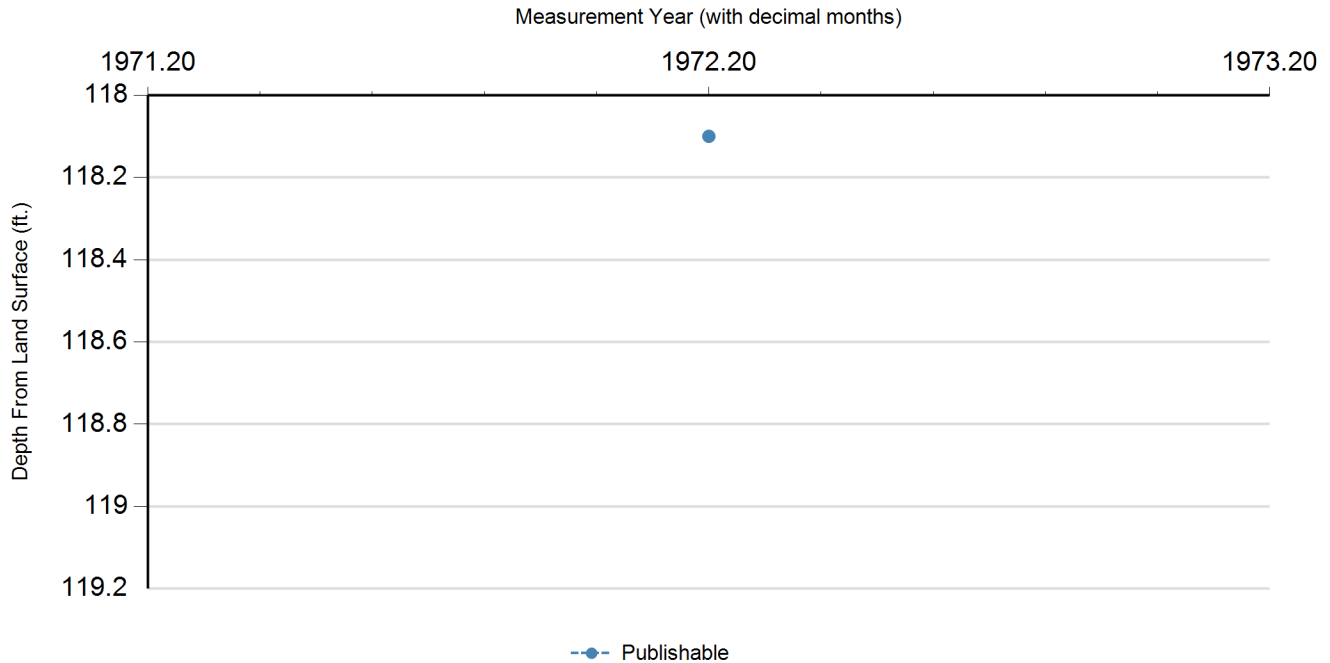
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/13/1972		118.1		777.9	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

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 CaCO ₃)		295	mg/L as CaCO ₃	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		360	mg/L	
00910	CALCIUM (MG/L)		43	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		96	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃)		214	mg/L as CaCO ₃	
00920	MAGNESIUM (MG/L)		26	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃)	<	0.4	mg/L as NO ₃	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		22	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		1.62		
00955	SILICA, DISSOLVED (MG/L AS SiO ₂)		15	mg/L as SiO ₂	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.04		
00932	SODIUM, CALCULATED, PERCENT		57	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		136	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1160	MICR	
00945	SULFATE, TOTAL (MG/L AS SO ₄)		108	mg/L as SO ₄	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		625	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.

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

State Well Number	5817602
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.704723
Latitude (degrees minutes seconds)	30° 42' 17" N
Longitude (decimal degrees)	-97.881111
Longitude (degrees minutes seconds)	097° 52' 52" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	873
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	430
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Ms. H.O. Lay
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	9/10/1999
Last Update Date	3/4/2020

Remarks	
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Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Screen	Steel				
6	Blank	Steel			0	430

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

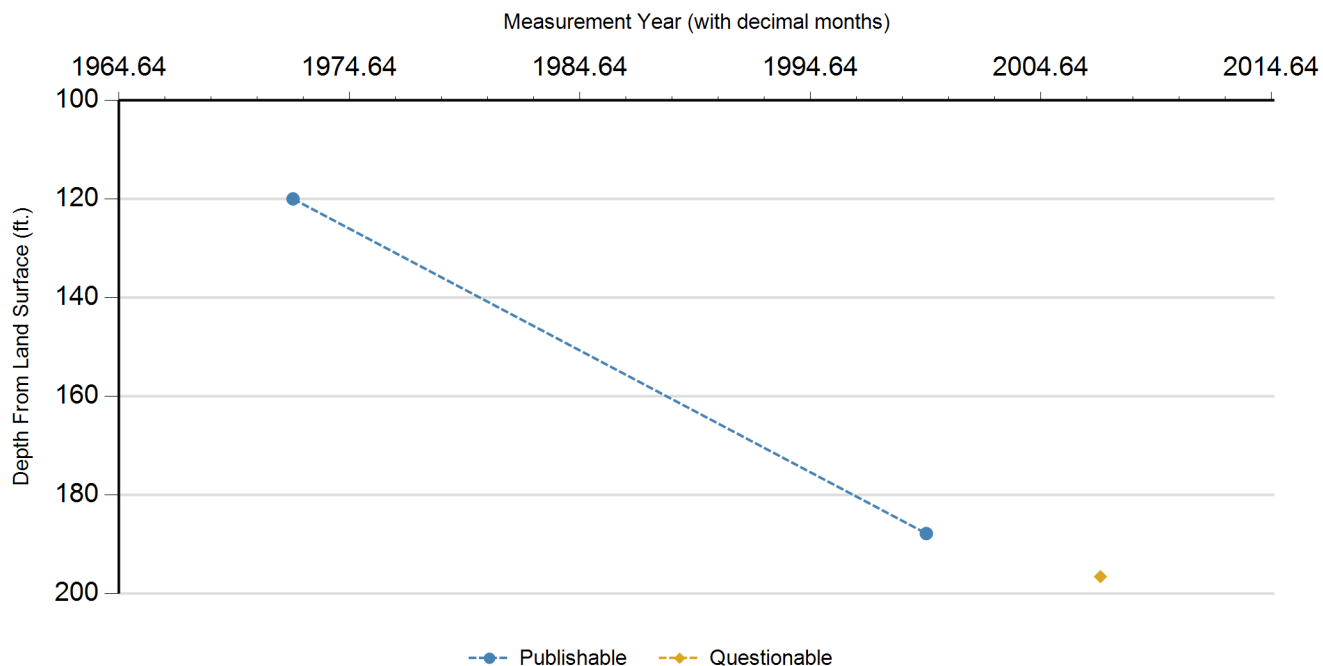
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/13/1972		120		753	1	Texas Water Development Board	Steel Tape		
P	9/10/1999		187.8	67.80	685.2	1	Texas Water Development Board	Steel Tape		
Q	3/28/2007		196.54	8.74	676.46	1	Texas Water Development Board	Steel Tape	10	

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
10	Inconsistent or spotty tape mark due to wet or leaking casing

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

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 CaCO ₃)		294	mg/L as CaCO ₃	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		358.78	mg/L	
00910	CALCIUM (MG/L)		40	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		99	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃)		211	mg/L as CaCO ₃	
00920	MAGNESIUM (MG/L)		27	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃)	<	0.4	mg/L as NO ₃	
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	<	0.03	mg/L as N	
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	<	0.05	mg/L as N	
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		21	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		1.66		
00955	SILICA, DISSOLVED (MG/L AS SiO ₂)		15	mg/L as SiO ₂	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		3.92		
00932	SODIUM, CALCULATED, PERCENT		57	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		131	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1112	MICR	
00945	SULFATE, TOTAL (MG/L AS SO ₄)		85	mg/L as SO ₄	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		596	mg/L	

Water Quality Analysis

Sample Date: 8/21/1980 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

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)		290	mg/L as CaCO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		353.9	mg/L	
00910	CALCIUM (MG/L)		56	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		121	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.6	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		308	mg/L as CaCO3	
00920	MAGNESIUM (MG/L)		41	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.2	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		28	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		14	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.46		
00932	SODIUM, CALCULATED, PERCENT		55	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		180	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1600	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		254	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		872	mg/L	

Water Quality Analysis

Sample Date: 9/10/1999 **Sample Time:** 1100 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO ₃		289	mg/L as CaCO ₃	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)		277	mg/L as CaCO ₃	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)		5.35	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		48.8	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		338.04	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		1130	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.45	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS Ca)		35.9	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		105	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	2	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃)		193	mg/L as CaCO ₃	
01046	IRON, DISSOLVED (UG/L AS FE)		227	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		98.6	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		22.8	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		11.3	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		1.66	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃)		0.11	mg/L as NO ₃	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.025	mg/L as N	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.42	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		20.5	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		1.87		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		17.3	mg/L as SI02	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.11		
00932	SODIUM, CALCULATED, PERCENT		60	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		128	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1022	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		8730	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		67.3	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23.3	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		572	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		24.5	ug/L	

Water Quality Analysis

Sample Date: 9/23/2003 **Sample Time:** 1320 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO ₃		298	mg/L as CaCO ₃	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO ₃)		285	mg/L as CaCO ₃	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		41.5	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO ₃)		347.8	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		2930	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.323	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		39.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO ₃)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		107	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		1.43	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.89	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃)		266	mg/L as CaCO ₃	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		148	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		37.5	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		2.12	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃)		1.89	mg/L as NO ₃	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.426	mg/L as N	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.43	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		24.6	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.66		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		14.7	mg/L as SI02	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.49		
00932	SODIUM, CALCULATED, PERCENT		58	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		164	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1353	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		12400	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		206	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22.8	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		781	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		78.6	ug/L	

Water Quality Analysis

Sample Date: 3/28/2007 **Sample Time:** 1215 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

Analyzed Lab: Energy Labs Inc.

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		287	mg/L as CaCO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	<	1	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		284	mg/L as CaCO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	1	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	1	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		40	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		346.57	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		3470	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)	<	0.5	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS Ca)		44.7	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		111	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		1	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		4.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		320	mg/L as CaCO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	30	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		173	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		46.9	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.66	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.6	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		7.44	SU	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00935	POTASSIUM, DISSOLVED (MG/L AS K)		28.4	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	1	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		12.8	mg/L as SI02	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.58		
00932	SODIUM, CALCULATED, PERCENT		57	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		184	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1380	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		13600	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		249	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		868	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		27	ug/L	

Water Quality Analysis

Sample Date: 3/28/2007 **Sample Time:** **Sample Number:** 1 **Collection Entity:** Texas Commission on Environmental Quality

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

Analyzed Lab: Immunoassay at TCEQ

Reliability: Sampled using TWDB protocols, but NOT filtered

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39033	ATRAZINE, TOTAL, UG/L		0	ug/L	
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE, UG/L		0	ug/L	

Water Quality Analysis

Sample Date: 6/20/2011 **Sample Time:** 1045 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: Lab Calculated Anion/Cation Chg Bal set to TWDB Calculated Value due to an error in the lab calculated formula

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CaCO3		288	mg/L as CaCO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	<	2	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		285	mg/L as CaCO3	
01503	ALPHA, DISSOLVED (PC/L)	<	7.2	PC/L	3.8
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4	ug/L	
50938	ANION/CATION CHG BAL, PERCENT		-2.38	PCT	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		55.7	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		347.79	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		846	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.42	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		33.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		103	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		2	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		2	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.09	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		177	mg/L as CaCO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		77	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		20.2	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		1	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	

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Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.02	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.02	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		6.83	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.02	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		19.5	mg/L	
09511	RADIUM 226, DISSOLVED, RADON METHOD, PC/L		1	PC/L	0.19
81366	RADIUM 228, DISSOLVED (PC/L AS RA-228)		4.2	PC/L	0.9
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		2.37		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		16.1	mg/L as SI02	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	1	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.14		
00932	SODIUM, CALCULATED, PERCENT		62	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		123	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		910	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		8700	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		56.3	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		24.6	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		552	mg/L	
22703	URANIUM, NATURAL, DISSOLVED (UG/L AS U)	<	1	ug/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	1	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		5.6	ug/L	

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

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
58-18-402**

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[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	5818402
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.701667
Latitude (degrees minutes seconds)	30° 42' 06" N
Longitude (decimal degrees)	-97.871944
Longitude (degrees minutes seconds)	097° 52' 19" W
Coordinate Source	+/- 1 Second
Aquifer Code	218TRNT - Trinity Group
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	872
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	450
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	10/0/1970
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Edwin York
Driller	Powell Drlg.
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	11/3/1994
Last Update Date	3/4/2020

Remarks Measured yield 30 GPM with 10 feet drawdown after pumping 2 hours in 1970. Pump set at 126 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	32
7	Open Hole				32	450

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

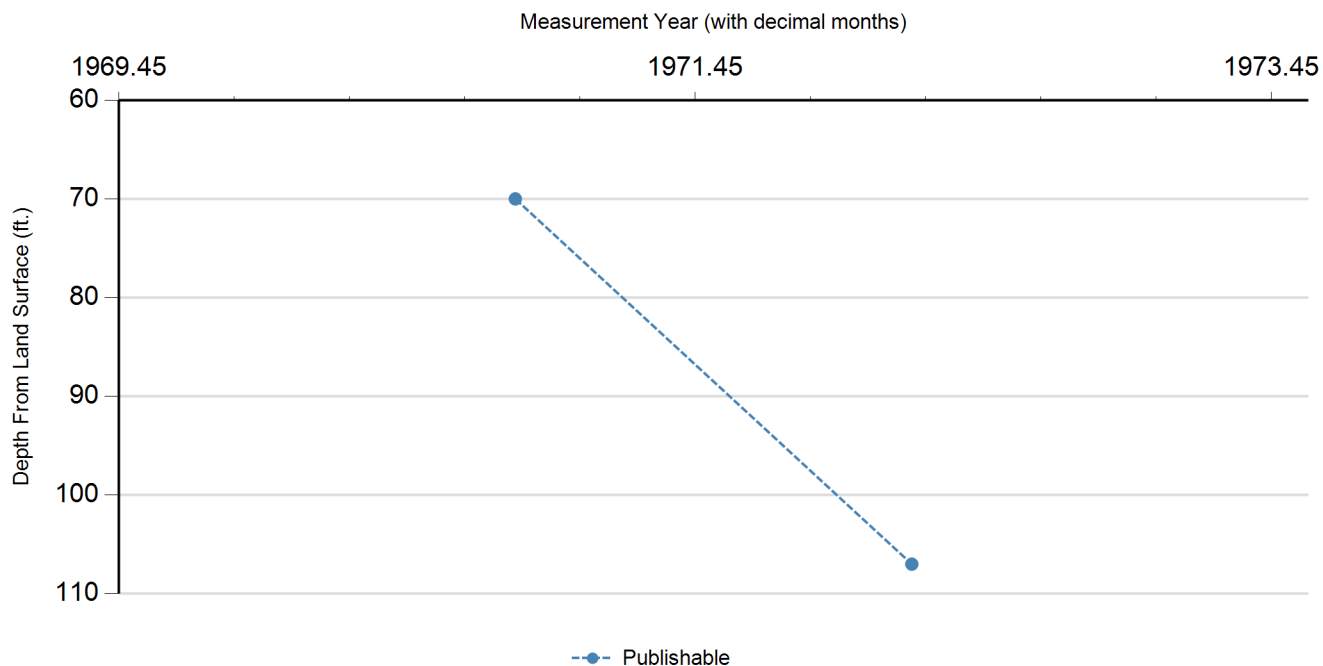
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/1/1970		70		802	1	Registered Water Well Driller	Electric Line		
P	3/13/1972		107	37.00	765	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Trinity 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)		303	mg/L as CaCO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		369.76	mg/L	
00910	CALCIUM (MG/L)		62	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		129	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		5.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		442	mg/L as CaCO3	
00920	MAGNESIUM (MG/L)		70	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		28	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		11	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		3.99		
00932	SODIUM, CALCULATED, PERCENT		48	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		193	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2058	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		408	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		25	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1088	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	5818404
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.701945
Latitude (degrees minutes seconds)	30° 42' 07" N
Longitude (decimal degrees)	-97.871111
Longitude (degrees minutes seconds)	097° 52' 16" W
Coordinate Source	+/- 1 Second
Aquifer Code	218GLRS - Glen Rose Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	883
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	150
Well Depth Source	Measured
Drilling Start Date	
Drilling End Date	
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	Edwin York
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	11/3/1994
Last Update Date	3/4/2020

Remarks	
---------	--

Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank	Steel				

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

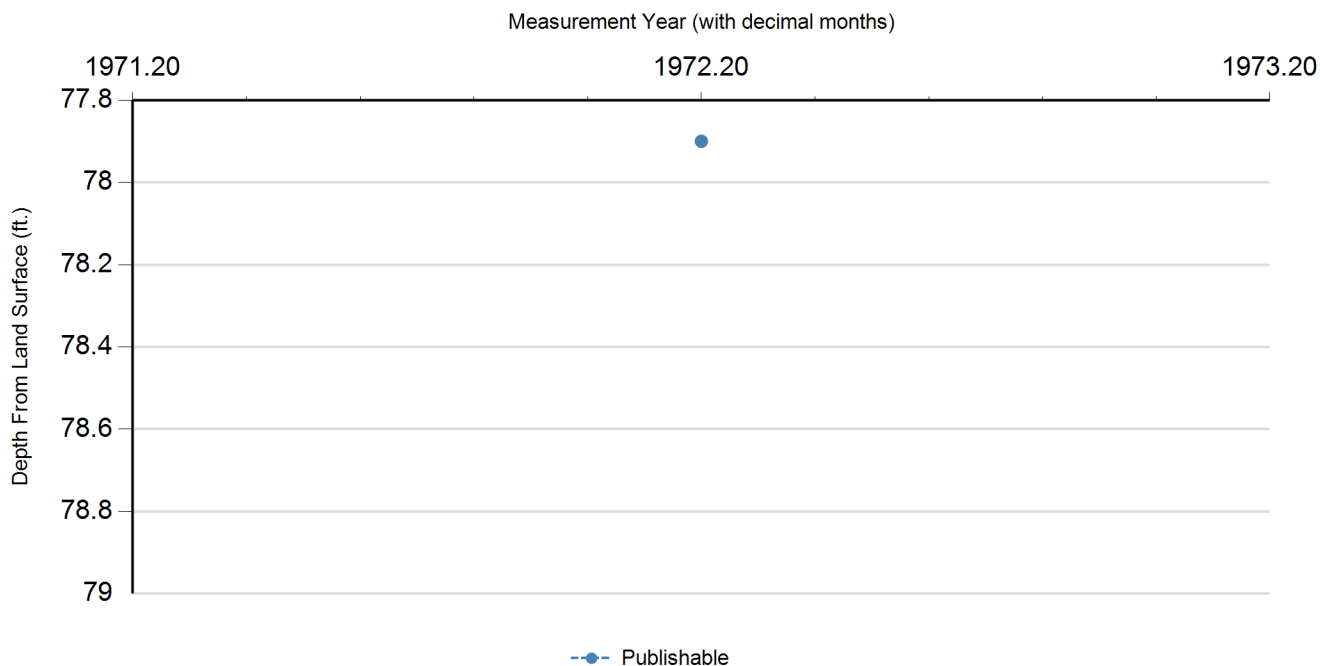
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/13/1972		77.9		805.1	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

Analyzed Lab: Texas Department of Health

Reliability: Not indicative of aquifer quality.

Collection Remarks: bailer-roots in water

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		310	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		378.31	mg/L	
00910	CALCIUM (MG/L)		73	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		125	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		4.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		428	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		60	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.5	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		66	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		10	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.05		
00932	SODIUM, CALCULATED, PERCENT		49	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		193	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2121	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		439	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1156	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](#)
[Scanned Documents](#)

State Well Number	5818405
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.704167
Latitude (degrees minutes seconds)	30° 42' 15" N
Longitude (decimal degrees)	-97.873055
Longitude (degrees minutes seconds)	097° 52' 23" W
Coordinate Source	+/- 1 Second
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	892
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	400
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1970
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	T.C.Joseph
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	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	11/3/1994
Last Update Date	3/4/2020

Remarks	Estimated yield 10-15 GPM.
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Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank	Steel				

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

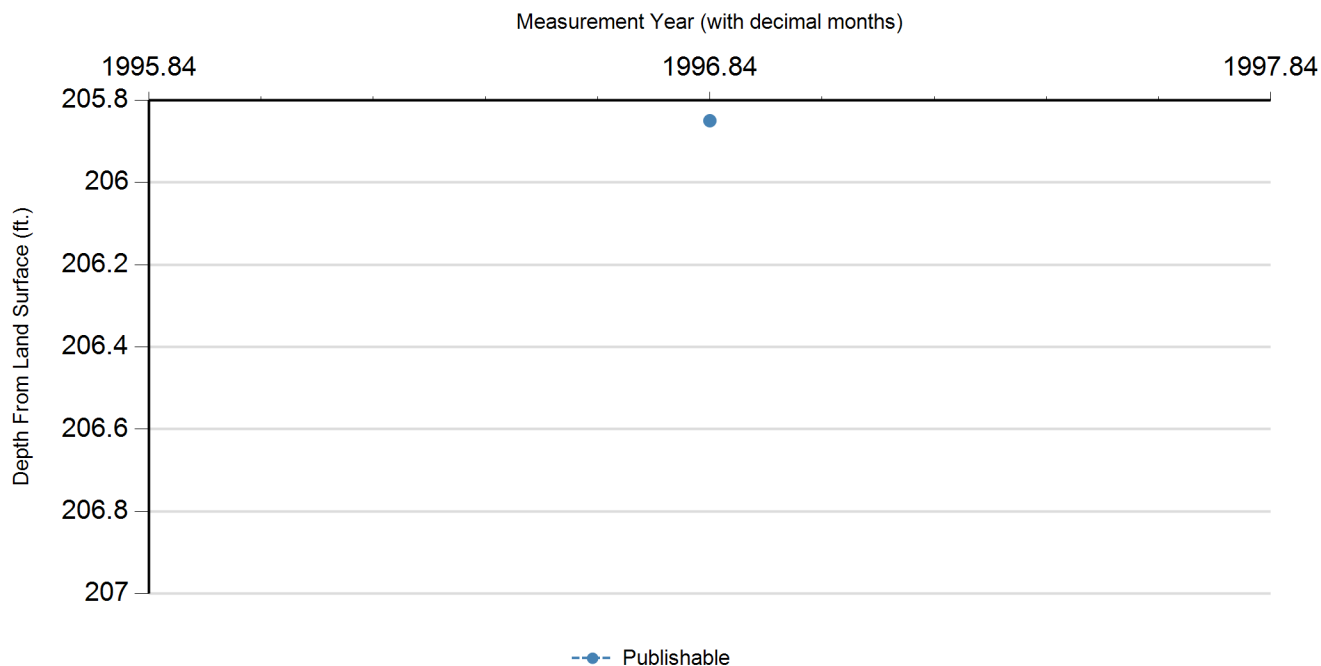
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/6/1996		205.85		686.15	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 3/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Hensell Sand Member of Travis Peak Formation

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)		296	mg/L as CaCO 3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		361.22	mg/L	
00910	CALCIUM (MG/L)		44	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		97	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		249	mg/L as CaCO 3	
00920	MAGNESIUM (MG/L)		34	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		23	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.93		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		15	mg/L as SiO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		4.02		
00932	SODIUM, CALCULATED, PERCENT		55	PCT	
00929	SODIUM, TOTAL (MG/L AS Na)		146	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1287	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		157	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		25	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		696	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	5818406
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.705001
Latitude (degrees minutes seconds)	30° 42' 18" N
Longitude (decimal degrees)	-97.873333
Longitude (degrees minutes seconds)	097° 52' 24" W
Coordinate Source	+/- 1 Second
Aquifer Code	218HNSL - Hensell Sand Member of Travis Peak Formation
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	900
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	432
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1971
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Leland Sullins
Driller	R B Bonnet
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	11/3/1994
Last Update Date	3/4/2020

Remarks	
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Casing						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	52
7	Open Hole				52	432

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

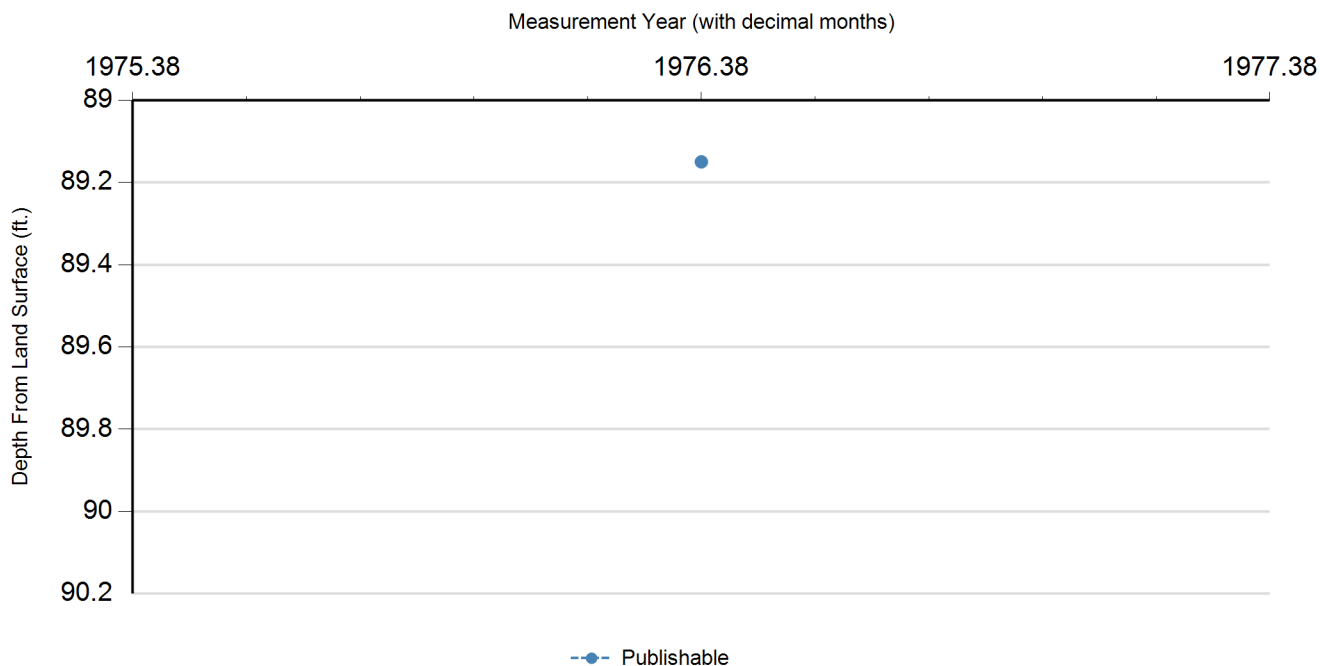
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	5/17/1976		89.15		810.85	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #25212

Owner:	Eric Bradford	Owner Well #:	No Data
Address:	350 Cypress Creek Cedar Park, TX 78613	Grid #:	58-18-1
Well Location:	455 Farris Ranch Road Georgetown, TX 78628	Latitude:	30° 43' 59" N
Well County:	Williamson	Longitude:	097° 51' 51" W
		Elevation:	993 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/10/2003** Drilling End Date: **2/11/2003**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	7.875	0	60
	7	60	560

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	60	25

Seal Method: **Gravity**

Sealed By: **ADC**

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: **348 ft. below land surface on 2003-02-19** Measurement Method: **Unknown**

Packers: **Neoprene/burlap 60 & 500**

Type of Pump: **Submersible** Pump Depth (ft.): **540**

Well Tests: **Estimated** Yield: **40 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
500-560	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: **Associated Drilling Co.**

**P.O. Box 1060
Manchaca, TX 78652**

Driller Name: **Byron Benoit**

License Number: **1955**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	25	tan lime with caliche
25	140	gray lime
140	200	broken gray lime
200	360	gray lime
360	420	gray lime with shale
420	460	broken gray tan sandstone
460	500	gray lime shale
500	560	broekn tan sandstone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	N	PLastic	-2 to 560 SDR 17
			perf. from 500-560

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 #101944

Owner:	Martin DeStefano	Owner Well #:	1 of 2
Address:	P.O. Box 160160 Austin, TX 78716	Grid #:	58-17-3
Well Location:	Leander, TX 78641	Latitude:	30° 43' 36" N
Well County:	Williamson	Longitude:	097° 52' 32" W
		Elevation:	785 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/21/2006** Drilling End Date: **11/21/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	520

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	4.5 cement

Seal Method: **poured slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **62**

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

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

Method of Verification: **measuring tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **264 ft. below land surface on 2006-11-21** Measurement Method: **Unknown**

Packers: **Rubber 20'**
Rubber 440'

Type of Pump: **n/a**

Well Tests: **Estimated** **Yield: 40 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: **Highland Drilling, Inc.**

**3339 E. Hwy 29
Burnet, TX 78611**

Driller Name: **Clifford Bohannon**

License Number: **4386**

Apprentice Name: **Hilery Steelman**

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	16	calechy
16	445	blue sandstone w/ blue shale stringers
445	454	sand
454	457	blue shale
457	470	sand
470	490	grey sandstone
490	497	sand
497	520	blue shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4 1/2	New	PVC	0-460 Sch 40
4 1/2	New	Perf PVC	460-500 Sch 40
4 1/2	New	PVC	500-520 Sch 40

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 #129345

Owner:	GEORGE CLARK	Owner Well #:	1
Address:	4221 OAK CREEK RD LEANDER, TX 78641	Grid #:	58-18-1
Well Location:	125 LAURA LN LIBERTY HILL, TX 78642	Latitude:	30° 43' 47" N
		Longitude:	097° 52' 12" W
Well County:	Williamson	Elevation:	980 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/30/2007** Drilling End Date: **11/30/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	40
	6	40	520

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 CEMENT

Seal Method: **POURED SLURRY**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

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

Method of Verification: **ESTIMATED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **410 ft. below land surface on 2007-11-30** Measurement Method: **Unknown**

Packers: **RUBBER 420
RUBBER 20**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 50 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: **HIGHLAND DRILLING, INC**
3339 E. HWY 29
BURNET, TX 78611

Driller Name: **CLIFFORD BOHANNON**

License Number: **4386**

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	18	CALECHY
18	430	BLUE SANDSTONE W/BUE SHALE STRINGERS
430	436	SAND
436	443	BLUE SHALE
443	451	SAND
451	454	BLUE SHALE
454	466	SAND
466	480	BLUE SANDSTONE
480	486	SAND
486	491	BLUE SANDSTONE
491	498	SAND
498	520	BLUE SHALE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	NEW	PVC	0-440 SCH 40
4.5	NEW	PERF PVC	440-460 SCH 40
4.5	NEW	PVC	460-480 SCH 40
4.5	NEW	PERF PVC	480-500 SCH 40
4.5	NEW	PVC	500-520 SCH 40

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 #156930

Owner:	Bill Warren	Owner Well #:	No Data
Address:	6702 Mesa Drive Austin, TX 78731	Grid #:	58-17-3
Well Location:	C.R. 211 Liberty Hill, TX 78642	Latitude:	30° 42' 48" N
Well County:	Williamson	Longitude:	097° 53' 28" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/10/2008** Drilling End Date: **8/10/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	40
	6	40	420

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	40	8

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: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **3 PVC & Burlap @ 40', 335', 340'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 30 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
40	Hensell

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 Dr.
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	20	Caliche & Lime
20	65	Blue Lime
65	275	Gray Lime
275	300	Hensell Sand & Clay
300	340	Brown Lime
340	420	Hensell Sand

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
5 OD New Plastic +2 to 420 17,40			

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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 #200509

Owner: **Smetzer, Jack**
Address: **1351 CR 257
Liberty Hill, TX 78624**
Well Location: **1351 CR 257
Liberty Hill, TX 78647**
Well County: **Williamson**

Owner Well #: **1**
Grid #: **58-18-4**
Latitude: **30° 42' 16" N**
Longitude: **097° 52' 23" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/30/2009**

Drilling End Date: **9/30/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	22
	6.75	22	460

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	3 Cement
	5	30	4 Benseal

Seal Method: **Gravity Feed**

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: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **313 ft. below land surface on 2009-09-30** Measurement Method: **Unknown**

Packers: **Shale 380'-370'
Cement 30'**

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

Well Tests: **Jetted** Yield: **33 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
390-460	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: **Tom Lovelace Water Well Serv.**
4997 Elm Grove Rd.
Belton, TX 76513

Driller Name: **Jimmy Okun**

License Number: **55015**

Comments: **^EO**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	20	over burden
20	380	gray lime & shale
380	390	gray & brown sandy lime
390	420	water sand
420	450	white lime & green sandy shale
450	460	brown & gray lime

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4 1/2"	New	Plastic Solid	+2'-390'
4 12/16"	New	Plastic MFG Screen	390'-460' .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 #249015

Owner: **Austin Korean Retreat**

Owner Well #: **No Data**

Address: **375 King Rea
Georgetown, TX 78628**

Grid #: **58-18-1**

Well Location: **375 King Rea
Georgetown, TX 78628**

Latitude: **30° 43' 01" N**

Longitude: **097° 51' 47" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **10/31/2005**

Drilling End Date: **11/14/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	20
	6.5	20	544

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	6

Seal Method: **Hand Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **274**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **312 ft. below land surface on 2005-11-14** Measurement Method: **Unknown**

Packers: **Shale Trap 504'**

Type of Pump: **Submersible**

Pump Depth (ft.): **460**

Well Tests: **Estimated** Yield: **100 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: **Tom Arnold Drilling**
1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

Comments: **\$mew**

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	Loose Rock & Top Soil
2	16	Yellow Limestone
16	34	Blue Limestone & Shale
34	178	Gray Limestone
178	200	Brown Limestone
200	277	Gray Limestone & Shale
277	281	Blue Limestone & Shale
281	400	Gray Limestone
400	458	Gray Sandstone
458	485	Gray Sand & Sandstone
485	504	Brown & White Limestone
504	544	Gray Sand & Sandstone

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
6	New	Plastic	0 - 20
4 1/2	New	Plastic	0 - 544
Perf	504	- 544	

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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 #264068

Owner: **David Biscomb**

Owner Well #: **No Data**

Address: **520 Farris Ranch Rd.
Georgetown, TX 78628**

Grid #: **58-18-1**

Well Location: **520 Farris Ranch Rd.
Georgetown, TX 78628**

Latitude: **30° 44' 04" N**

Longitude: **097° 51' 48" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **8/15/2011**

Drilling End Date: **8/15/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.75	50	540

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	50	13

Seal Method: **gravity poured**

Distance to Property Line (ft.): **55**

Sealed By: **ADC**

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

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

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **430 ft. below land surface on 2011-08-18** Measurement Method: **Unknown**

Packers: **neoprene/burlap 420 and 50**

Type of Pump: **Submersible**

Pump Depth (ft.): **500**

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

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	n/a		

Water Quality:

Strata Depth (ft.)	Water Type
460-520	trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Co.**
12928 Lowden Ln.
Manchaca, TX 78652

Driller Name: **James Benoit**

License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	topsoil/bedrock
2	20	white limestone
20	310	grey lime
310	315	grey clay
315	405	grey lime
405	450	tan limestone
450	460	grey limestone
460	520	course sand
520	540	grey and white limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5od	new	sdr17 pvc (screen)	500 to 540 (.032)
5od	new	sdr17 pvc	-2 to 500

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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 #276527

Owner:	CAMERON SMILEY	Owner Well #:	1
Address:	7015 fm 3405 LIBERTY HILL, TX 78642	Grid #:	58-18-4
Well Location:	7015 FM3405 LIBERTY HILL, TX 78642	Latitude:	30° 42' 18" N
Well County:	Williamson	Longitude:	097° 52' 04" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/21/2011** Drilling End Date: **11/24/2011**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	9.75	0	20
	8	20	500

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	20	5

Seal Method: **MIXED**

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: **Surface Sleeve Installed**

Water Level: **326 ft. below land surface on 2011-11-22** Measurement Method: **Unknown**

Packers: **RUBBER 40'
RUBBER 400'**

Type of Pump: **Submersible** Pump Depth (ft.): **440**

Well Tests: **Jetted** Yield: **45 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
460	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: **HILL COUNTRY WATER WELL**

**POBOX 220
BRIGGS, TX 78608**

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOP SOIL
2	19	CALICHE
19	160	GRAY LIME
160	165	GRAY SHALE
165	240	GRAY LIME
240	285	BROWN LIME
285	320	GRAY LIME
320	380	GLENN ROSE WATER
380	420	SANDSTONE
420	430	TRINITY SAND
430	470	SANDSTONE
470	475	TRINITY SAND
475	485	SANDSTONE
485	490	TRINITY SAND
490	500	SANDSTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	NEW	PLASTIC	SDR17 0' / 500'
4.5"	NEW	SCREEN	460' .032
4.5"	NEW	SCREEN	480' .032
4.5"	NEW	SCREEN	500' .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 #278608

Owner:	JOHN CROSS	Owner Well #:	1
Address:	800 CR 255 GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	800 CR 255 GEORGETOWN, TX 78633	Latitude:	30° 43' 06" N
Well County:	Williamson	Longitude:	097° 51' 25" W
		Elevation:	942 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **12/20/2011** Drilling End Date: **12/21/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.75	0	20
	6.25	20	520

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	5

Seal Method: **MIXED**

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: **Alternative Procedure Used**

Water Level: **362 ft. below land surface on 2011-12-21** Measurement Method: **Unknown**

Packers: **RUBBER 40'
RUBBER 460'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 40 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: **HILL COUNTRY WATER WELL**
POBOX 220
BRIGGS, TX 78608

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Comments: **SLAB & SLEEVE INSTALLED**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	18	CALICHE
18	80	GRAY LIME
80	95	BROWN LIME
95	190	GRAY LIME
190	280	BROWN LIME
280	375	GRAY LIME
375	450	SANDSTONE
450	460	TRINITY SAND
460	475	SANDSTONE
475	476	TRINITY SAND
476	495	SANDSTONE
495	510	TRINITY SAND
510	520	SANDSTONE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	NEW	PLASTIC	0-520
4.5	NEW	SCREEN	480 .032
4.5	NEW	SCREEN	500 .032
4.5	NEW	SCREEN	520 .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 #288966

Owner:	Alvie Weed	Owner Well #:	1
Address:	555 Farris Ranch Road Georgetown, TX 78633	Grid #:	58-18-1
Well Location:	555 Farris Ranch Road Georgetown, TX 78633	Latitude:	30° 44' 04" N
Well County:	Williamson	Longitude:	097° 51' 52" W
		Elevation:	990 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/14/2012** Drilling End Date: **4/16/2012**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	9.75	0	20
	6.25	20	560

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	20	6

Seal Method: **MIXED**

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: **Surface Sleeve Installed**

Water Level: **389 ft. below land surface on 2012-04-16** Measurement Method: **Unknown**

Packers: **RUBBER 40'**
RUBBER 500'

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

Well Tests: **Jetted** Yield: **40 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: **HILL COUNTRY WATER WELL**
POBOX 220
BRIGGS, TX 78608

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOP SOIL
2	18	CALICHE
18	80	GRAY LIME
80	160	BROWN LIME
160	165	GRAY SHALE
165	240	BROWN LIME
240	380	GRAY LIME
380	385	GRAY SHALE
385	420	GRAY LIME
420	515	SANDSTONE
515	520	TRINITY SAND
520	535	SANDSTONE
535	540	TRINITY SAND
540	550	SANDSTONE
550	560	TRINITY SAND

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-560 SDR17
4.5	NEW	SCREEN	540/560 .032

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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #289414

Owner:	John Solis	Owner Well #:	No Data
Address:	1125 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1125 Cr 257 Liberty Hill, TX 78642	Latitude:	30° 42' 07" N
Well County:	Williamson	Longitude:	097° 52' 10" W
		Elevation:	902 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/7/2012**

Drilling End Date: **6/7/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	440

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 Cement

Seal Method: **Poured 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: **Estimated**

Surface Completion: **Surface Sleeve Installed**

Water Level: **290 ft. below land surface on 2012-06-07** Measurement Method: **Unknown**

Packers: **Rubber 360
Rubber 20**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 50 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: **Highland Drilling Inc**
4145 Hwy 29 E
Burnet, TX 78611

Driller Name: **Clifford Bohannon**

License Number: **4386**

Apprentice Name: **Kenneth Allen Jr**

Apprentice Number: **58232**

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	12	Calechy
12	360	Blue Shale
360	410	Sand w/ Blue Shale Stringers
410	440	Blue Shale

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	New	PVC	0-380 SDR-17
4.5	New	Pefr PVC	380-420 SDR-17
4.5	New	PVC	420-440 SDR-17

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STATE OF TEXAS WELL REPORT for Tracking #295057

Owner: **Estes Majors**

Owner Well #: **No Data**

Address: **5490 HWY 183 N.
Liberty Hill, TX 78642**

Grid #: **58-18-1**

Well Location: **5490 HWY 183 N.
Liberty Hill, TX 78642**

Latitude: **30° 43' 59" N**

Longitude: **097° 52' 22" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **Replacement**

Proposed Use: **Domestic**

Drilling Start Date: **5/31/2012**

Drilling End Date: **5/31/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	602

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	51	7cmt 5gel

Seal Method: **gravity poured**

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

Sealed By: **ADC**

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

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

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **467 ft. below land surface on 2012-05-31** Measurement Method: **Unknown**

Packers: **neoprene rubber and burlap @ 482,462, and 51**

Type of Pump: **Submersible** Pump Depth (ft.): **540**

Well Tests: **Jetted** Yield: **40-50 GPM**

	<i>Description (number of sacks & material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	n/a		

Water Quality:

Strata Depth (ft.)	Water Type
490-585	glen rose

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc.**
12928 Lowden Ln.
Manchaca, TX 78652

Driller Name: **James Benoit**

License Number: **4064**

Comments: **pump set by others**
Bud Dobson

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	white limestone
10	410	gray lime
410	415	gray clay
415	490	gray limestone
490	515	tan and white limestone
515	560	course sand
560	585	tan and white limestone
585	602	gray limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5 od.	new	sdr17 pvc	-3 to 532
5 od.	new	sdr17 pvc (.032)	screen 532 to 592
5 od.	new	sdr17 pvc	592 to 602

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STATE OF TEXAS WELL REPORT for Tracking #315349

Owner:	Genie Rich	Owner Well #:	1
Address:	531 CR 255 Georgetown, TX 78633	Grid #:	58-18-1
Well Location:	531 Cr 255 Georgetown, TX 78633	Latitude:	30° 42' 57" N
Well County:	Williamson	Longitude:	097° 51' 41" W
		Elevation:	898 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/4/2013**

Drilling End Date: **4/5/2013**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	10
	6.75	10	525

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	-2	10	5 cement

Seal Method: **poured slurry**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **500+**

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data on 2013-04-05**

Measurement Method: **Unknown**

Packers: **Rubber 10'**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 20 GPM with 0 ft. drawdown after .5 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
465	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: **Walden Drilling Inc**
1690 Cr 102
Llano, TX 78643

Driller Name: **Scott Purcell**

License Number: **59335**

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	17	yellow brown red clay sand and gravel
17	360	blue red clay sandstone streaks
360	460	blue grey lime
460	525	limestone and sand

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4.5	sdr	17 new pvc +2 - 445 blank	
4.5	sdr	17 new pvc 445-525 slotted .125	

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STATE OF TEXAS WELL REPORT for Tracking #346031

Owner: **STAN HAVINS**

Owner Well #: **1**

Address: **6140 FM 3405
GEORGETOWN, TX 78633**

Grid #: **58-18-4**

Well Location: **6140 FM 3405
GEORGETOWN, TX 78633**

Latitude: **30° 41' 59" N**

Longitude: **097° 51' 27" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/26/2013**

Drilling End Date: **8/27/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12	0	25
	6.75	25	460

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	3 1/2 CEMENT
	5	35	4 BENSEAL

Seal Method: **GRAVITY FEED**

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: **MEASURED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **279 ft. below land surface on 2013-08-27** Measurement Method: **Unknown**

Packers: **SHALE 380 SHALE 360
SHALE 370 CEMENT 35**

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

Well Tests: **Jetted** Yield: **80 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
385-450	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: **TOM LOVELACE WATER WELL SERVICE**
4997 ELM GROVE RD
BELTON, TX 76513

Driller Name: **JIMMY OKUN** License Number: **55015**

Comments: **^KBA**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	23	OVERBURDEN
23	380	GRAY LIME SHALE
380	385	TAN LIME
385	450	SAND STONE WATER SAND
450	460	HARD GRAY SAND STONE

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
4 1/2	NEW	PLASTIC SOLID	+2-380
4 1/2	NEW	PLASTIC MFG SCREEN	380-460 .032

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STATE OF TEXAS WELL REPORT for Tracking #379598

Owner:	BRIAN & KIM BUTLER	Owner Well #:	No Data
Address:	5450 HWY 183 LIBERTY HILL, TX 78642	Grid #:	58-17-3
Well Location:	5450 HWY 183 LIBERTY HILL, TX 78642	Latitude:	30° 44' 04" N
Well County:	Williamson	Longitude:	097° 52' 32" W
		Elevation:	1018 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/11/2014** Drilling End Date: **9/13/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.75	0	20
	6.5	20	600

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	560	5

Seal Method: **MIXED**

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: **OWNER**

Surface Completion: **Surface Sleeve Installed**

Water Level:	No Data on 2014-09-13	Measurement Method:	Unknown
Packers:	RUBBER 40' RUBBER 400' RUBBER 500'		
Type of Pump:	Submersible	Pump Depth (ft.):	540
Well Tests:	Jetted	Yield:	40 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: **HILL COUNTRY WATER WELL**

**POBOX 220
BRIGGS, TX 78608**

Driller Name: **JOE MCDEARMON**

License Number: **2334**

Apprentice Name: **BRAD COWAN**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-18		CALICHE
18-80		GRAY LIME
80-140		BROWN LIME
140-280		GRAY LIME
280-360		BROWN LIME
360-420		GRAY LIME
420-480		SANDSTONE
480-485		SAND
485-520		SANDSTONE
520-525		TRINITY SAND
525-545		SANDSTONE
545-547		TRINITY SAND
547-600		SANDSTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
9 3/4"	NEW	PLASTIC	0-600 SDR17
6 1/2"	NEW	PLASTIC	20-600 SCREEN .032

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STATE OF TEXAS WELL REPORT for Tracking #439812

Owner:	STERMASTER PROPERTIES	Owner Well #:	1
Address:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Latitude:	30° 42' 42.4" N
Well County:	Williamson	Longitude:	097° 51' 02.39" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/22/2016** Drilling End Date: **11/22/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	540

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	Cement 6 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **100+**

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

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

Method of Verification: **GPS**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	320 ft. below land surface, and 0 GPM artesian flow on 2016-11-22	Measurement Method:	Sonic/Radar
Packers:	Rubber at 140 ft. Rubber at 300 ft. Rubber at 400 ft.		
Type of Pump:	Submersible	Pump Depth (ft.):	460
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: **Alpine water well service**
10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK**

License Number: **2912**

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	540	NO DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
6		New Steel		0	20
4.5		New Plastic (PVC)		0	540

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STATE OF TEXAS WELL REPORT for Tracking #467338

Owner:	David Welgert	Owner Well #:	No Data
Address:	1351 CR 256 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1351 CR 256 Liberty Hill, TX 78642	Latitude:	30° 42' 00.16" N
Well County:	Williamson	Longitude:	097° 52' 12.85" W
		Elevation:	970 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 11/20/2017 Drilling End Date: 11/20/2017

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	20
	6	20	500

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	20	Cement 6 Bags/Sacks

Seal Method: Hand Mixed

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: Surface Sleeve Installed

Surface Completion by Driller

Water Level: 320 ft. below land surface on 2017-11-21 Measurement Method: Sonic/Radar

Packers: Rubber at 200 ft.
Rubber at 400 ft.

Type of Pump: Submersible Pump Depth (ft.): 440

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: **Alpine water well service**
10121 North IH35
Jarrell, TX 76537

Driller Name: **Bobby Stork**

License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	500	NO DATA

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>
6		New Steel		-2	20
4.5		New Plastic (PVC)		0	460
4.5	Screen	New Plastic (PVC)		460	500

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STATE OF TEXAS WELL REPORT for Tracking #470686

Owner:	John and Velvet Brethrick	Owner Well #:	No Data
Address:	201 Gazelle Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	201 Gazelle Run Liberty Hill, TX 78642	Latitude:	30° 43' 11.6" N
Well County:	Williamson	Longitude:	097° 52' 50" W
		Elevation:	968 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/26/2018** Drilling End Date: **1/26/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	490

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	6 cement 2 bentonite gelclay Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

Distance to Septic Field or other
concentrated contamination (ft.): **>120**

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

Method of Verification: **Owner / Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Burlap at 50 ft.
Burlap and Plastic at 390 ft.
Burlap and Plastic at 410 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 15-20 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
420 - 490	Mid Trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **A&W Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	15	tan white lime
15	370	blue lime with few strips of shale
370	380	gray limestone and clay
380	420	blue white limestonesome some clay
420	460	tan white limestone (h2o)
460	490	tan and gray limestone

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	-3	430
4.5	Screen	New Plastic (PVC)	sdr17 0.020	430	490

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 #483521

Owner:	William Pearson	Owner Well #:	No Data
Address:	6750 FM 304 Liberty Hill , TX 78642	Grid #:	58-18-1
Well Location:	6750 FM 304 Liberty Hill, TX 78642	Latitude:	30° 42' 31" N
Well County:	Williamson	Longitude:	097° 51' 51" W
		Elevation:	907 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/13/2018** Drilling End Date: **6/13/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	510

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	50	Cement 7 Bags/Sacks
	0	50	Bentonite 3 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: **Tape Measure/Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	330 ft. below land surface, and 35 GPM artesian flow on 2018-06-13	Measurement Method:	Sonic/Radar
Packers:	PVC & Burlap at 430 ft. PVC & Burlap at 450 ft.		
Type of Pump:	Submersible		
Well Tests:	Jetted	Yield: 35 GPM	

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
450 - 480	Hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **Frank A Glass**

License Number: **1313**

Comments: **Drilled for Bud Dodson Well Service / gf**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	Top Soil
2	20	Caliche
20	75	Blue Limestone
75	180	Gray Limestone
180	220	Shale
220	340	Gray & Brown Limestone
340	380	Shale
380	400	Brown Limestone
400	490	Hensell
490	510	Hard Brown Limestone

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>
5	Blank	New Plastic (PVC)	SDR17 0.17	0	510
5	Perforated or Slotted	New Plastic (PVC)	SDR17 0.17	450	510

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

STATE OF TEXAS WELL REPORT for Tracking #490982

Owner: **James Baker**

Owner Well #: **No Data**

Address: **2404 Walsh Dr.
Round Rock , TX 78681**

Grid #: **58-18-1**

Well Location: **305 Mustang Way
Georgetown, TX 78633**

Latitude: **30° 44' 08" N**

Longitude: **097° 51' 32" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/19/2018**

Drilling End Date: **7/19/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	18
	6.25	18	525

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 20 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 460 ft.
Burlap/Neoprene at 465 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: NA GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
465 - 525	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

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top Soil
1	8	Tan LS
8	415	Gray Tan LS
415	431	Tan Gray LS
431	440	Tan Gray LS w Sand and Oil
440	445	Gray LS
445	458	Gray Sand
458	465	Tan LS
465	477	Big Sand
477	500	Tan LS
500	510	Big Sand
510	525	Tan White and Gray Hard LS

<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	465
4.5	Screen	New Plastic (PVC)	.035	465	525

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #493908

Owner:	Shawna Bucuk and Larry Robertson	Owner Well #:	No Data
Address:	2010 Antelope Pass Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	2010 Antelope Pass Liberty Hill, TX 78642	Latitude:	30° 43' 09.3" N
Well County:	Williamson	Longitude:	097° 52' 52.44" W
		Elevation:	966 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/14/2018** Drilling End Date: **9/14/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	530

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	6 cement 2 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+75**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **394 ft. below land surface on 2018-09-14** Measurement Method: **Sonic/Radar**

Packers: **Burlap at 50 ft.
burlap and plastic at 430 ft.
burlap and plastic at 450 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 25-30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
450 - 530	mid trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

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

Comments: **Drilled for Glass Well Service**
SB

Lithology:
 DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
 BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	15	white tan lime
15	390	blue lime
390	400	grey sand
400	430	grey lime and shale
430	460	tan limestone
460	485	tan white limestone, H2O
485	495	course sand, H2O
495	515	tan white limestone
515	530	grey limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	-3	450
4.5	Screen	New Plastic (PVC)	SDR17 0.020	450	530

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #494559

Owner:	Rio Bonito RV Park	Owner Well #:	No Data
Address:	1095 CR 256 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1095 CR 256 Liberty Hill, TX 78642	Latitude:	30° 41' 59.04" N
Well County:	Williamson	Longitude:	097° 51' 49.56" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **10/25/2017** Drilling End Date: **10/26/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	20
	6.5	20	510

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	Cement 8 Bags/Sacks

Seal Method: **Poured**

Sealed By: **Driller**

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

Distance to Septic Field or other
concentrated contamination (ft.): **135**

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

Method of Verification: **tape measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **375 ft. below land surface on 2017-10-26**

Packers: **at 20 ft.
at 330 ft.
at 350 ft.
Shale trap at 410 ft.**

Type of Pump: **Submersible**

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

Well Tests: **Estimated Yield: 50 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold**License Number: **2096**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	6	top soil & loose gravel
6	26	red sandy clay
26	31	blue limestone
31	190	gray limestone
190	196	brown limestone
196	267	gray limestone
267	288	brown limetone
288	341	gray limestone
341	368	gray sandstone
368	430	gray sand & sandstone sections
430	450	gray limestone
450	490	gray limestone & shale
490	510	gray limestone & shale

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Unknown	New Plastic (PVC)		0	510
	Screen	Unknown	0.032	350	390
	Screen	Unknown	0.032	410	430

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 #496325

Owner:	Jose Cardenas	Owner Well #:	No Data
Address:	121 Game Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	121 Game Run Liberty Hill, TX 78642	Latitude:	30° 43' 11.28" N
Well County:	Williamson	Longitude:	097° 52' 52.5" W
		Elevation:	972 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/14/2018** Drilling End Date: **9/14/2018**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	9	0	50
	6.25	50	530

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>
	-1	50	6 cement 2 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **396 ft. below land surface on 2018-09-14** Measurement Method: **Sonic/Radar**

Packers: **Burlap at 50 ft.
burlap and plastic at 410 ft.
burlap and plastic at 430 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 25-30 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
450 - 530	mid trinity

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Wells**
SB

Report Amended on 12/13/2018 by Request #26673

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	15	white and tan lime
15	390	blue lime
390	400	grey sand
400	430	grey lime and shale
430	460	tan limestone
460	485	tan white limestone, H2O
485	495	course sand, H2O
495	515	tan white limestone
515	530	grey limestone

<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	-3	450
4.5	Screen	New Plastic (PVC)	SDR17 0.020	450	510
4.5	Blank	New Plastic (PVC)	SDR17	510	530

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

STATE OF TEXAS WELL REPORT for Tracking #499547

Owner: **Gabrial Vazquez**

Owner Well #: **No Data**

Address: **5604 China Berry Rd
Austin , TX 78744**

Grid #: **58-18-1**

Well Location: **5346 N Hwy 183
Liberty Hill, TX 78642**

Latitude: **30° 43' 56" N**

Longitude: **097° 52' 26" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/28/2018**

Drilling End Date: **11/28/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	18
	6.25	18	585

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 480 ft.
Burlap/Neoprene at 483 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40-45 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
483 - 560	Trinity - TDS 320

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	23	Tan LS
23	467	Gray Tan LS
467	483	Gray Sand
483	505	Gray Tan LS w/ Sand
505	519	Sand
519	560	Tan LS
560	565	Gray LS
565	585	Gray LS w/ Clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	505
4.5	Screen	New Plastic (PVC)	.035	505	565
4.5	Blank	New Plastic (PVC)	SDR17	565	585

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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 #499635

Owner:	David Martin	Owner Well #:	No Data
Address:	6390 FM 3405 Georgetown, TX 78633	Grid #:	58-18-4
Well Location:	6390 FM 3405 Georgetown, TX 78633	Latitude:	30° 42' 28.62" N
Well County:	Williamson	Longitude:	097° 51' 27.78" W
		Elevation:	907 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/20/2018** Drilling End Date: **11/20/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	510

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	6 cement 2 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **55**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **360 ft. below land surface on 2018-11-20** Measurement Method: **Sonic/Radar**

Packers: **burlap and plastic 390' 410'**
Burlap at 50 ft.

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 35-40 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
410 - 510	mid trinity, hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Well Service**
SB

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	top bedrock
2	10	yellow lime and clay
10	360	blue lime
360	410	grey lime and clay
410	465	tan white limestone (H2O)
465	475	grey tan sand (H2O)
475	490	tan grey limestone
490	510	grey limestone

<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	-3	430
4.5	Screen	New Plastic (PVC)	SDR17 0.020	430	490
4.5	Blank	New Plastic (PVC)	SDR17	490	510

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 #509344

Owner:	STERMASTER PROPERTIES	Owner Well #:	2
Address:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Grid #:	58-18-1
Well Location:	25615 RONALD REAGAN BLVD GEORGETOWN, TX 78633	Latitude:	30° 42' 42.3" N
Well County:	Williamson	Longitude:	097° 51' 02.38" W
		Elevation:	750 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/11/2019** Drilling End Date: **3/12/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	520

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	Concrete 6 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **330 ft. below land surface on 2019-03-12** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 200 ft.
Rubber at 400 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **460**

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: **Alpine water well service**

**10121 North IH35
Jarrell, TX 76537**

Driller Name: **BOBBY STORK**

License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	TOP SOIL
2	10	YELLOW LIME AND CLAY
10	360	BLUE LIME
360	410	GREY LIME AND CLAY
410	465	TAN LIMESTONE
465	475	GREY SAND
475	490	TAN GREY LIMESTONE
490	510	GREY LIMESTONE
510	520	GREY LIMESTONE AND WATER

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>
6		New Steel		-2	20
4.5		New Plastic (PVC)		0	480
4.5	Perforated or Slotted	New Plastic (PVC)		480	520

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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 #515111

Owner:	Terri Palmer	Owner Well #:	No Data
Address:	5412 N Hwy 183 Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	185 North of CR 207 Liberty Hill, TX 78642	Latitude:	30° 43' 58.44" N
Well County:	Williamson	Longitude:	097° 52' 27.12" W
		Elevation:	991 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/17/2019** Drilling End Date: **5/17/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	50
	6.25	50	570

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	holeplug 4 Bags/Sacks
	1	50	cement 9 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.): **100+**

Method of Verification: **Owner**

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

Water Level: **No Data**

Packers: **Burlap 50', 440', 510'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 45 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
45	hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO Box 673
Dripping Springs, TX 78620

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **Drilled for A&W Water Wells**

Report Amended on 11/13/2019 by Request #29280

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	20	Caliche
20	75	Blue Lime
75	240	Gray Lime
240	300	Brown Lime
300	410	Grey Lime
410	450	Brown Shale
450	510	Grey Lime
510	570	Hensell Sand

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
5	Blank	New Plastic (PVC)	SDR17	1	570

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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 #518935

Owner: **Jeff Roemer**

Owner Well #: **No Data**

Address: **400 Kine Rea
Georgetown, TX 78633**

Grid #: **58-18-1**

Well Location: **300 Kine Rea
Georgetown, TX 78633**

Latitude: **30° 42' 55" N**

Longitude: **097° 51' 19" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/28/2019**

Drilling End Date: **3/1/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	530

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	Cement 6 Bags/Sacks

Seal Method: **Poured**

Distance to Property Line (ft.): **n/a**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **210**

Distance to Septic Tank (ft.): **n/a**

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data on 2019-03-01**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **500**

Well Tests: **Estimated** **Yield: 100 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy D Arnold**

License Number: **2096**

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 & Loose Rock
1	15	Yellow Limestone
15	23	Blue Limestone & Shale
23	170	Gray Limestone
170	196	Brown Limstone
196	340	Gray Limestone
340	349	Blue Limestone & Shale
349	426	Gray Sandstone
426	467	Gray Sandstone & Sand Strips
467	470	Gray Sand
470	489	Green Sandsstone
489	527	Gray Sand
527	530	Gray Sandstone

<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)		0	530
	Perforated or Slotted		0.032	490	530

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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 #520524

Owner:	Martin DeStefano	Owner Well #:	2
Address:	PO Box 160160 Austin, TX 78716	Grid #:	58-18-1
Well Location:	Hwy 183 & CR 207 Liberty Hill, TX 78642	Latitude:	30° 43' 06.42" N
Well County:	Williamson	Longitude:	097° 52' 08.88" W
		Elevation:	932 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/4/2012**

Drilling End Date: **3/5/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	540

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **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: **No Data**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Rubber at 20 ft.
Rubber at 440 ft.**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 25-30 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: **B & B Water Well Service, Inc**
PO Box 232
Bertram, TX 78605

Driller Name: **Joshua Dickinson**

License Number: **54204**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	TOPSOIL
1	20	CALICHE
20	440	BLUE SANDSTONE
440	455	SAND
455	460	BLUE SHALE
460	470	SAND
470	490	GREY SANDSTONE
490	495	SAND
495	540	BLUE SHALE

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	0	480
4.5	Perforated or Slotted	New Plastic (PVC)	SCH40	480	520
4.5	Blank	New Plastic (PVC)	SDR17	520	540

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 #520526

Owner:	Martin Destefano	Owner Well #:	2
Address:	PO Box 160160 Austin, TX 78716	Grid #:	58-17-3
Well Location:	Hwy 183 Liberty Hill, TX 78642	Latitude:	30° 43' 54.72" N
Well County:	Williamson	Longitude:	097° 52' 39.24" W
		Elevation:	1009 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **10/8/2011** Drilling End Date: **10/9/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6.25	20	560

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	Cement 5 Bags/Sacks

Seal Method: **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: **No Data**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **No Data**

Packers: **Rubber at 40 ft.
Rubber at 460 ft.**

Type of Pump: **No Data**

Well Tests: **Estimated Yield: 30+ 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: **B & B Water Well Service, Inc**
PO Box 232
Bertram, TX 78605

Driller Name: **Joshua Dickinson**

License Number: **54204**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	2	TOPSOIL
2	15	CALICHE
15	420	BLUE SANDSTONE
420	460	SAND
460	480	BLUE SHALE
480	500	SAND
500	520	GREY SANDSTONE
520	540	SAND
540	560	BLUE SHALE

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	20	500
4.5	Perforated or Slotted	New Plastic (PVC)	SCH40	500	540
4.5	Blank	New Plastic (PVC)	SDR17	540	560

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 #520550

Owner:	Carlos Higgins	Owner Well #:	No Data
Address:	5490 183 Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	5490 183 Liberty Hill, TX 78642	Latitude:	30° 44' 02.05" N
Well County:	Williamson	Longitude:	097° 52' 28.25" W
		Elevation:	1013 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **7/24/2019** Drilling End Date: **7/25/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	20
	6.75	20	580

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	30	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **389 ft. below land surface on 2019-07-25**

Packers: **Rubber at 40 ft.
Rubber at 400 ft.
Rubber at 500 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **500**

Well Tests: **Jetted Yield: 50 GPM**

Water Quality:

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

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: **HILL COUNTRY WATER WELL**
POBOX 220
BRIGGS, TX 78608

Driller Name: **Joe McDearmon**

License Number: **2334**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	14	CALICHE
14	480	GREY LIME
480	500	SANDSTONE
500	525	TRINITYSANDS
525	540	SANDSTONE
540	565	TRINITYSANDS
565	580	SANDSTONE

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17 0.032	0	580
4.5	Screen	New Plastic (PVC)	SDR17 0.032	520	520
4.5	Screen	New Plastic (PVC)	SDR17 0.032	560	560

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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 #527343

Owner: **Harvey Young**

Owner Well #: **No Data**

Address: **351 CR 256
Liberty Hill, TX 78642**

Grid #: **58-18-4**

Well Location: **351 CR 256
Liberty Hill, TX 78642**

Latitude: **30° 42' 19" N**

Longitude: **097° 51' 31" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/16/2019**

Drilling End Date: **9/17/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	520

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	19	Cement 6 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **188**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **370 ft. below land surface on 2019-09-17**

Packers: **Shale Trap at 20 ft.
Shale Trap at 350 ft.
Shale Trap at 370 ft.
Shale Trap at 406 ft.**

Type of Pump: **Submersible**

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

Well Tests: **Estimated** **Yield: 50 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

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	Fill
1	17	Yellow Limestone
17	108	Gray limestone
108	122	Bronw Limestone
122	250	Gray Limestone
250	262	Blue Limestone & Shale
262	330	Gray Limestone
330	350	Gray Sandstone
350	397	Gray Sandstone & Sand Strips
397	450	Gray Sand
450	505	Gray Sandstone
505	520	Gray Limestone & Shale

<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)		0	520
4.5	Screen	New Plastic (PVC)	0.032	370	450

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #532072

Owner:	Angel Rameriz	Owner Well #:	No Data
Address:	126 Antelope Pass Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	126 Antelope Pass Liberty Hill, TX 78642	Latitude:	30° 43' 06.18" N
Well County:	Williamson	Longitude:	097° 52' 55.44" W
		Elevation:	967 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **10/7/2019** Drilling End Date: **10/7/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11	0	20
	6.25	20	530

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	30	3 cement Bags/Sacks
	0	20	1 cement 4 holeplug Bags/Sacks

Seal Method: **Slurry**

Distance to Property Line (ft.): **60**

Sealed By: **Driller**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **390 ft. below land surface on 2019-10-07** Measurement Method: **Sonic/Radar**

Packers: **burlap 20', 30'**
burlap and plastic 430', 410'

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 25-30 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
430 - 530	hensell

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 Drilling Inc**
500 Southland Dr
Burnet, TX 78611

Driller Name: **James Benoit**

License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	3	white chalk
3	15	soft yellow lime and clay
15	380	blue lime
380	400	gray lime and shale
400	430	blue lime and clay
430	505	tan white limestone, H2O
505	530	grey limestone

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	-3	450
6.25	Blank	New Plastic (PVC)	sch 40	0	20
4.5	Screen	New Plastic (PVC)	sdr17 0.020	450	510
4.5	Blank	New Plastic (PVC)	sdr17	510	530

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STATE OF TEXAS WELL REPORT for Tracking #533972

Owner: **Jeremy Barclay**

Owner Well #: **No Data**

Address: **2909 Silver Foundation Dr.
Leander, TX 78641**

Grid #: **58-18-1**

Well Location: **711 King Rea
Georgetown, TX 78633**

Latitude: **30° 43' 06" N**

Longitude: **097° 51' 03" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **11/21/2019**

Drilling End Date: **11/22/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	530

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	Cement 6 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **158**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **370 ft. below land surface on 2019-11-22**

Packers: **Shale Trap at 20 ft.
Shale Trap at 410 ft.
Shale Trap at 465 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **50**

Well Tests: **Estimated** **Yield: 50 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold**

License Number: **2096**

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 & Loose Rock
1	9	Yellow Limestone
9	30	Blue Limestone
30	350	Gray Limestone
350	410	Gray Sandstone
410	430	Gray Sandstone & Sand
430	451	Brown & White Limestone
451	460	Green Sandstone
460	490	Gray Sand
490	507	Gray Sandstone & Sand
507	530	Gray Limestone

<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)		0	530
	Perforated or Slotted		0.032	410	430
	Perforated or Slotted		0.032	470	510

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STATE OF TEXAS WELL REPORT for Tracking #557665

Owner: **JOHN DUDGEON**

Owner Well #: **No Data**

Address: **25600 RONALD REAGAN
GEORGETOWN, TX 78633**

Grid #: **58-18-1**

Well Location: **25600 RONALD REAGAN
GEORGETOWN, TX 78633**

Latitude: **30° 42' 39" N**

Longitude: **097° 50' 52" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/12/2020**

Drilling End Date: **8/13/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	550

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	101	Cement 21 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **90**

Variance Number: **NA**

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

Method of Verification: **TAPE ***

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **450 ft. below land surface on 2020-08-13**

Packers: **SHALE TRAP at 101 ft.
SHALE TRAP at 450 ft.
SHALE TRAP at 470 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **449**

Well Tests: **Estimated** **Yield: 30 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **TOMMY ARNOLD**

License Number: **2096**

Comments: *** FROM PROPOSED LOCATION**

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 & LOOSE ROCK
1	11	BROWN LIMESTONE
11	20	BLUE LIMESTONE
20	161	GRAY LIMESTONE
161	168	BROWN LIMESTONE
168	345	GRAY LIMESTONE
345	350	BLUE LIMESTONE & SHALE
350	361	BROWN LIMESTONE
361	410	GRAY SANDSTONE
410	430	GRAY SAND
430	512	GRAY SANDSTONE & SAND STRIPS
512	550	GRAY & GREEN LIMESTONE

<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)		0	550
	Perforated or Slotted		0.032	470	550

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STATE OF TEXAS WELL REPORT for Tracking #562913

Owner:	CORKER CUSTOM HOMES	Owner Well #:	1
Address:	275 CR 211 LIBERTY HILL, TX 78642	Grid #:	58-17-3
Well Location:	275 CR 211 LIBERTY HILL, TX 78642	Latitude:	30° 43' 03.9" N
Well County:	Williamson	Longitude:	097° 53' 13.81" W
		Elevation:	920 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/23/2020** Drilling End Date: **11/24/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	480

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	Cement 6 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **280 ft. below land surface on 2020-11-24** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 240 ft.
Rubber at 400 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **460**

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: **Alpine water well service**
10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK**

License Number: **2912**

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	TOP SOIL
2	22	FRACTURED ROCK
22	260	LIMESTONE AND SHALE
260	400	LIMESTONE
400	480	LIMESTONE SAND AND WATER

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
6		New Steel		-2	20
4.5		New Plastic (PVC)		0	440
4.5	Perforated or Slotted	New Plastic (PVC)		440	480

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STATE OF TEXAS WELL REPORT for Tracking #573890

Owner:	Mike McNassar	Owner Well #:	No Data
Address:	951 Live Oak Trail Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	951 Live Oak Trail Liberty Hill, TX 78642	Latitude:	30° 43' 58.2" N
Well County:	Williamson	Longitude:	097° 52' 03.36" W
		Elevation:	1012 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/28/2021** Drilling End Date: **4/28/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	20
	6.25	20	630

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	30	4 cement 1 benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **75**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	487 ft. below land surface on 2021-04-28	Measurement Method:	Sonic/Radar
Packers:	burlap 30 burlap and plastic 530, 510		
Type of Pump:	Submersible		
Well Tests:	Estimated	Yield: 10-12 GPM	

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
487	hensell

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
500 Southland Drive
Burnet, TX 78611

Driller Name: **James Benoit**

License Number: **4064**

Comments: **Drilled for Dodson Well Services**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	topsoil and rock
1	10	white calachie
10	25	tan lime
25	460	blue lime
460	495	tan white limestone
495	530	white limestone and blue clay
530	570	tan white limestone, H2O
570	595	white limestone
595	620	grey limestone
620	630	blue shale and 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	-3	550
4.5	Screen	New Plastic (PVC)	sdr17 0.020	550	610
4.5	Blank	New Plastic (PVC)	sdr17	610	630

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

STATE OF TEXAS WELL REPORT for Tracking #588570

Owner:	Art Coker	Owner Well #:	No Data
Address:	767 county road 207 Liberty hill , TX 78642	Grid #:	58-17-3
Well Location:	767 county road 207 Liberty hill, TX 78642	Latitude:	30° 43' 00" N
Well County:	Williamson	Longitude:	097° 53' 00" W
		Elevation:	920 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **10/15/2021** Drilling End Date: **10/17/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	20
	6	20	480

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	Cement 6 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **280 ft. below land surface on No Data**

Packers: **Rubber at 240 ft.
Rubber at 400 ft.**

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**

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: **Alpine water well service**

**10121 North IH35
Jarrell, TX 76537**

Driller Name: **b0bby wayne stork**

License Number: **2912**

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	480	limestone sand and water

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
6	Blank	New Steel		-2	20
4.5	Perforated or Slotted	New Plastic (PVC)		0	480

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(512) 334-5540**

STATE OF TEXAS WELL REPORT for Tracking #594212

Owner: **JIM & NANCY ADKISSON**

Owner Well #: **No Data**

Address: **220 FALCON
SANTA CRUZ, CA 95605**

Grid #: **58-17-3**

Well Location: **113 CR 211
LIBERTY HILL, TX 78642**

Latitude: **30° 43' 15" N**

Longitude: **097° 53' 17" W**

Well County: **Williamson**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/19/2021**

Drilling End Date: **10/19/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	19
	6.5	19	510

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	Cement 6 Bags/Sacks

Seal Method: **Poured**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **210**

Variance Number: **NA**

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

Method of Verification: **TAPE ***

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **290 ft. below land surface on 2021-10-19**

Packers: **SHALE TRAP at 30 ft.
SHALE TRAP at 210 ft.
SHALE TRAP at 410 ft.
SHALE TRAP at 430 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **460**

Well Tests: **Estimated Yield: 40 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: **TOM ARNOLD DRILLING**
2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **TOM ARNOLD**

License Number: **2096**

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 & LOOSE ROCK
1	10	YELLOW LIMESTONE
10	17	BLUE LIMESTONE
17	144	GRAY LIMESTONE
144	149	BROWN LIMESTONE
149	166	GRAY LIMESTONE
166	187	TAN LIMESTONE
187	191	BLUE LIMESTONE & SHALE
191	343	GRAY LIMESTONE
343	349	BLUE LIMESTONE & SHALE
349	395	GRAY SANDSTONE
395	430	GRAY SANDSTONE & SAND STRIPS
430	435	GRAY SAND
435	449	WHITE & BROWN SANDSTONE
449	467	GRAY SANDSTONE
467	470	GREEN SANDSTONE
470	490	GRAY SAND

<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)		0	510
	Perforated or Slotted		0.032	390	430

490	500	GRAY SANDSTONE
500	510	GRAY LIMESTONE & SHALE

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #617923

Owner:	James Dedolph	Owner Well #:	No Data
Address:	108 Game Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	108 Game Run Liberty Hill, TX 78642	Latitude:	30° 43' 17.36" N
Well County:	Williamson	Longitude:	097° 52' 59.45" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

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

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	9	0	50
	6.25	50	550

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	100	11 cement, 2 Benseal Bags/Sacks

Seal Method: **Pressure Tremie**

Sealed By: **Driller**

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

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **413 ft. below land surface on 2022-09-14** Measurement Method: **Sonic/Radar**

Packers: **PVC Burlap 470, 450, 100**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 25 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
40	Hensel

Chemical Analysis Made: **No**

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

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

Company Information: **Associated Drilling Inc**
PO BOX 673
Dripping Springs, TX 78620

Driller Name: **Frank Glass**

License Number: **1313**

Comments: **Drilled for Marshall Kirk/Bud Dodson Well Service**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	1	Top soil
1	42	Caliche
42	260	Blue lime
260	400	Gray lime
400	440	Tan lime
440	470	Brown sandstone
470	530	Hensel
530	550	Shale & brown limestone

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	0	470
4.5	Screen	New Plastic (PVC)	SDR17 0.020	470	530
4.5	Blank	New Plastic (PVC)	SDR17	530	550

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STATE OF TEXAS WELL REPORT for Tracking #620263

Owner:	Juniper Ridge RV Park	Owner Well #:	No Data
Address:	1060 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1060 CR 257 Liberty Hill, TX 78642	Latitude:	30° 42' 00.68" N
Well County:	Williamson	Longitude:	097° 51' 52.39" W
		Elevation:	859 ft. above sea level
Type of Work:	New Well	Proposed Use:	Public Supply

Drilling Start Date: **8/1/2022**

Drilling End Date: **8/5/2022**

Plans Approved by TCEQ - YES
PWS# 6001111

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
13.5	0	30
8.75	30	480

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	30	Cement 10 Bags/Sacks
0	380	Cement 65 Bags/Sacks

Seal Method: **Pressure**

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: **Tape**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **354 ft. below land surface, and 37 GPM** Measurement Method: **Sonic/Radar**
artesian flow on **2022-09-21**

Packers: **Rubber at 380 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **440**

Well Tests:	Pump	Yield: 37 GPM with 0 ft. drawdown after 0 hours
	Pump	Yield: 37 GPM with 3 ft. drawdown after 1 hours
	Pump	Yield: 37 GPM with 4 ft. drawdown after 2 hours
	Pump	Yield: 37 GPM with 4 ft. drawdown after 23 hours
	Pump	Yield: 37 GPM with 4 ft. drawdown after 26 hours

Pump **Yield: 37 GPM with 4 ft. drawdown after 30 hours**

Pump **Yield: 37 GPM with 4 ft. drawdown after 36 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
365 - 480	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan** License Number: **61014**

Comments: **No Data**

Report Amended on 1/11/2023 by Request #38379

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	14	Top Soil
14	22	Yellow Limestone
22	200	Gray Limestone
200	210	Brown Limestone
210	270	Gray Limestone
270	345	Tan Limestone
345	365	Dry Sand
365	420	Trinity Sands/Limestone
420	460	Gray Limestone
460	480	Gray Limestone/Shale

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
10	Blank	New Plastic (PVC)	SDR17 0.032	0	30
5	Blank	New Plastic (PVC)	SDR17 0.032	0	360
5	Screen	New Plastic (PVC)	SDR17 0.032	360	380
5	Screen	New Plastic (PVC)	SDR17 0.032	380	400
5	Screen	New Plastic (PVC)	SDR17 0.032	400	420
5	Blank	New Plastic (PVC)	SDR17 0.032	420	440
5	Blank	New Plastic (PVC)	SDR17 0.032	440	460
5	Blank	New Plastic (PVC)	SDR17 0.032	460	480

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STATE OF TEXAS WELL REPORT for Tracking #620266

Owner:	Juniper Ridge RV Park	Owner Well #:	No Data
Address:	1060 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1060 CR 257 Liberty Hill, TX 78642	Latitude:	30° 41' 58.71" N
Well County:	Williamson	Longitude:	097° 51' 53.71" W
		Elevation:	868 ft. above sea level
Type of Work:	New Well	Proposed Use:	Public Supply

Drilling Start Date: **8/9/2022**

Drilling End Date: **8/16/2022**

Plans Approved by TCEQ - YES
PWS# 6001111

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
13.5	0	24
8.75	24	460

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	24	Cement 8 Bags/Sacks
0	380	Cement 70 Bags/Sacks

Seal Method: **Pressure**

Distance to Property Line (ft.): **100+**

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **364 ft. below land surface, and 35 GPM
artesian flow on 2022-09-19**

Packers: **Rubber at 380 ft.**

Type of Pump: **Submersible**

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

Well Tests:	Pump	Yield: 35 GPM with 0 ft. drawdown after 0 hours
	Pump	Yield: 35 GPM with 5 ft. drawdown after 1 hours
	Pump	Yield: 35 GPM with 5 ft. drawdown after 2 hours
	Pump	Yield: 35 GPM with 6 ft. drawdown after 5 hours
	Pump	Yield: 35 GPM with 6 ft. drawdown after 26 hours

Pump **Yield: 35 GPM with 6 ft. drawdown after 30 hours**

Pump **Yield: 35 GPM with 6 ft. drawdown after 36 hours**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
380 - 440	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan** License Number: **61014**

Comments: **No Data**

Report Amended on 1/11/2023 by Request #38378

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	Top Soil
2	19	Caliche
19	22	Gravel
22	180	Gray Limestone
180	220	Brown Limestone
220	300	Gray Limestone
300	340	Tan Limestone
340	380	Dry Sand
380	440	Trinity Sands/Sandstone
440	460	Gray Limestone

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
10	Blank	New Plastic (PVC)	SDR17 0.032	0	24
5	Blank	New Plastic (PVC)	SDR17 0.032	0	380
5	Screen	New Plastic (PVC)	SDR17 0.032	380	400
5	Screen	New Plastic (PVC)	SDR17 0.032	400	420
5	Screen	New Plastic (PVC)	SDR17 0.032	420	440
5	Blank	New Plastic (PVC)	SDR17 0.032	440	460

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STATE OF TEXAS WELL REPORT for Tracking #631028

Owner:	Susan Lyon	Owner Well #:	No Data
Address:	1357 CR 257 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1357 CR 257 Liberty Hill, TX 78642	Latitude:	30° 42' 14.72" N
Well County:	Williamson	Longitude:	097° 52' 22.25" W
		Elevation:	895 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **11/29/2022** Drilling End Date: **12/5/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11.75	0	20
	6.75	20	480

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	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **347 ft. below land surface, and 20 GPM
artesian flow on 2022-12-05**

Packers: **Rubber at 40 ft.
Rubber at 400 ft.
Rubber at 420 ft.**

Type of Pump: **Submersible**

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

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

Water Quality:

Strata Depth (ft.)	Water Type
420 - 480	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	18	Caliche
18	220	Gray Limestone
220	240	Tan Limestone
240	340	Gray Limestone
340	360	Dry Sand
360	380	Gray Limestone
380	400	Dry Sand
400	420	Tan Sandstone
420	480	Trinity Sands (Water) / Sandstone

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17 0.032	0	420
4.5	Screen	New Plastic (PVC)	SDR17 0.032	420	440
4.5	Screen	New Plastic (PVC)	SDR17 0.032	440	460
4.5	Blank	New Plastic (PVC)	SDR17 0.032	460	480

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STATE OF TEXAS WELL REPORT for Tracking #637568

Owner:	Loree Tamayo	Owner Well #:	No Data
Address:	1507 CR 256 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1507 CR 256 Liberty Hill, TX 78642	Latitude:	30° 42' 04.43" N
Well County:	Williamson	Longitude:	097° 52' 23.09" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/18/2023** Drilling End Date: **4/18/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8.75	0	100
	6.25	100	450

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	100	9 cement, 4 Benseal Bags/Sacks

Seal Method: **Pressure Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **35**

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	340 ft. below land surface on 2023-04-18	Measurement Method:	Sonic/Radar
Packers:	Burlap & PVC 350', 330' Burlap & Rubber 100'		
Type of Pump:	Submersible		
Well Tests:	Estimated	Yield: 15-20 GPM	

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
340 - 450	Hensel

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: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Well Service.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	7	topsoil
7	15	white chalk
15	295	blue lime
295	315	gray lime & shale
315	350	blue white limestone & clay
350	380	tan white limestone some sand
380	415	white limestone
415	440	gray limestone
440	450	blue 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	-3	370
4.5	Screen	New Plastic (PVC)	SDR17 0.020	370	430
4.5	Blank	New Plastic (PVC)	SDR17	430	450

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STATE OF TEXAS WELL REPORT for Tracking #648933

Owner:	Loree Tamayo	Owner Well #:	No Data
Address:	1507 CR 256 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1507 CR 256 Liberty Hill, TX 78642	Latitude:	30° 42' 02.48" N
Well County:	Williamson	Longitude:	097° 52' 20.35" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/6/2023**

Drilling End Date: **9/6/2023**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	8.75	0	100
	6.25	100	450

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	-1	100	10 csment, 4 Benseal Bags/Sacks

Seal Method: **Pressure Tremie**

Distance to Property Line (ft.): **27**

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 Sleeve Installed**

Surface Completion by Driller

Water Level:	350 ft. below land surface on 2023-09-06	Measurement Method:	Electric Log
Packers:	Burlap & PVC 330', 310' Burlap & Rubber 100'		
Type of Pump:	No Data		
Well Tests:	Estimated	Yield: 15-20 GPM	

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
350 - 450	Hensel

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: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Well Service.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	5	top soil & clay
5	10	sandy loam & gravel
10	305	blue lime
305	330	gray limestone some clay
330	380	tan gray limestone some sand
380	390	course sand and limestone
390	405	tan gray limestone
405	450	gray white limestone

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	-3	370
4.5	Screen	New Plastic (PVC)	SDR17 0.032	370	430
4.5	Blank	New Plastic (PVC)	SDR17	430	450

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STATE OF TEXAS WELL REPORT for Tracking #649553

Owner:	Janet Arlitt	Owner Well #:	No Data
Address:	4250 N Hwy 183 Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	4250 N Hwy 183 Liberty Hill, TX 78642	Latitude:	30° 42' 49.8" N
Well County:	Williamson	Longitude:	097° 52' 05.7" W
		Elevation:	918 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 9/1/2023

Drilling End Date: 9/6/2023

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	10.625	0	10
	8.5	10	560

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

Filter Pack Intervals:	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
	50	420	Gravel	3/8
	430	450	Gravel	3/8

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	45	Cement 10
	45	50	Bentonite 3
	420	430	Bentonite 4

Seal Method: Poured

Distance to Property Line (ft.): 100+

Sealed By: Driller

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

Distance to Septic Tank (ft.): 100+

Method of Verification: No Data

Surface Completion: Pitless Adapter Used

Water Level: 404 ft. below land surface on 2023-09-06 Measurement Method: Electric Line

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 520

Well Tests: Jetted Yield: 8-10 GPM

Water Quality:

Strata Depth (ft.)	Water Type
450 - 560	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**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	6	topsoil
6	165	grey limestone
165	180	dark grey limestone mix
180	350	grey limestone
350	389	grey / tan limestone
389	450	dark grey limestone / shale
450	530	grey sandstone wb 400 tds
530	560	sandstone / river rock

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	Blank	New Plastic (PVC)		0	520
5	Perforated or Slotted	New Plastic (PVC)		520	560

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #654328

Owner:	Art Corker	Owner Well #:	No Data
Address:	300 Martindale Liberty Hill, TX 78642	Grid #:	58-18-1
Well Location:	300 Martindale Liberty Hill, TX 78642	Latitude:	30° 43' 14.08" N
Well County:	Williamson	Longitude:	097° 51' 58.92" W
		Elevation:	949 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/19/2023** Drilling End Date: **9/20/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11.75	0	20
	6.75	20	560

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	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **75**

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

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

Method of Verification: **Tape**

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

Water Level: **435 ft. below land surface, and 20 GPM
artesian flow on 2023-09-20**

Packers: **Rubber at 40 ft.
Rubber at 420 ft.
Rubber at 440 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **520**

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

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
440 - 540	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

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	10	Yellow Limestone
10	380	Gray Limestone
380	383	Gray Shale
383	440	Gray Limestone
440	500	Trinity Sands (Water)
500	540	Tan Sandstone
540	550	Trinity Sands
550	560	White/ Yellow Limestone

<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 0.032	0	480
4.5	Screen	New Plastic (PVC)	SDR17 0.032	480	500
4.5	Blank	New Plastic (PVC)	SDR17 0.032	500	520
4.5	Screen	New Plastic (PVC)	SDR17 0.032	520	540
4.5	Blank	New Plastic (PVC)	SDR17 0.032	540	560

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STATE OF TEXAS WELL REPORT for Tracking #659196

Owner:	Mark Breaux	Owner Well #:	No Data
Address:	245 Cr 211 Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	245 Cr 211 Liberty Hill, TX 78642	Latitude:	30° 43' 06.6" N
Well County:	Williamson	Longitude:	097° 53' 14.75" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **1/18/2023** Drilling End Date: **1/19/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.75	0	20
	6.75	20	490

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	40	Bentonite 8 Bags/Sacks

Seal Method: **Poured**

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: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level:	320 ft. below land surface, and 40 GPM artesian flow on 2023-02-06	Measurement Method:	Sonic/Radar
Packers:	Plastic at 40 ft. Plastic at 380 ft. Plastic at 400 ft.		
Type of Pump:	Submersible	Pump Depth (ft.):	440
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: **B & B Water Well Service, Inc**

**PO Box 232
Bertram, TX 78605**

Driller Name: **Joshua Dickinson**

License Number: **54204**

Apprentice Name: **Joshua Dylan Dickinson**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	15	Caliche/ Yellow Lime
15	60	Blue Lime
60	180	Grey Lime
180	200	Brown Lime
200	400	Grey Lime / Clay
400	440	Grey Lime / Sand Stone
440	490	Sand Stone / Trinity Sands /H2O 35+ GPM

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR 17	0	410
4.5	Screen	New	SDR 17 0.032	410	490

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STATE OF TEXAS WELL REPORT for Tracking #665148

Owner:	Ryan Onesto	Owner Well #:	No Data
Address:	204 King Rhea Spur Georgetown, TX 78633	Grid #:	58-18-1
Well Location:	204 King Rhea Spur Georgetown, TX 78633	Latitude:	30° 42' 42.02" N
Well County:	Williamson	Longitude:	097° 51' 05.3" W
		Elevation:	900 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/4/2024**

Drilling End Date: **3/5/2024**

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	11.75	0	20
	6.75	20	500

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
	0	40	Cement 7 Bags/Sacks

Seal Method: **Hand Mixed**

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: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **460 ft. below land surface, and 20 GPM
artesian flow on 2024-03-14**

Packers: **Rubber at 40 ft.
Rubber at 380 ft.
Rubber at 420 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **460**

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

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
420 - 500	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

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	16	Yellow Limestone
16	180	Gray Limestone
180	190	Brown Limestone
190	400	Gray Limestone
400	420	Dry Sand
420	500	Trinity Sands/ Sandstone (Water)

<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 0.032	0	400
4.5	Screen	New Plastic (PVC)	SDR17 0.032	400	420
4.5	Blank	New Plastic (PVC)	SDR17 0.032	420	440
4.5	Screen	New Plastic (PVC)	SDR17 0.032	440	460
4.5	Blank	New Plastic (PVC)	SDR17 0.032	460	500

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STATE OF TEXAS WELL REPORT for Tracking #665161

Owner:	Barbara Fernando	Owner Well #:	No Data
Address:	1421 CR 256 Liberty Hill, TX 78642	Grid #:	58-18-4
Well Location:	1421 CR 256 Liberty Hill, TX 78642	Latitude:	30° 42' 02.02" N
Well County:	Williamson	Longitude:	097° 52' 19.44" W
		Elevation:	855 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/18/2024** Drilling End Date: **3/19/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	11.75	0	20
	6.75	20	440

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	100	Cement 15 Bags/Sacks

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **35**

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

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

Method of Verification: **Tape**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **322 ft. below land surface, and 20 GPM
artesian flow on 2024-03-19**

Packers: **Rubber at 40 ft.
Rubber at 360 ft.
Rubber at 380 ft.**

Type of Pump: **Submersible**

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

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

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
380 - 440	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: **Hill Country Water Well**
2740 COUNTY ROAD 210
Briggs, TX 78608

Driller Name: **Bradley Cowan**

License Number: **61014**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	12	Top Soil
12	360	Gray Limestone
360	380	White Limestone
380	440	Tan/ Gray Sandstone (Water)

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 0.032	0	380
4.5	Screen	New Plastic (PVC)	SDR17 0.032	380	400
4.5	Screen	New Plastic (PVC)	SDR17 0.032	400	420
4.5	Blank	New Plastic (PVC)	SDR17 0.032	420	440

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STATE OF TEXAS WELL REPORT for Tracking #680794

Owner:	Ryan Browning	Owner Well #:	No Data
Address:	209 Gazelle Run Liberty Hill, TX 78642	Grid #:	58-17-3
Well Location:	209 Gazelle Run Liberty Hill, TX 78642	Latitude:	30° 43' 12.83" N
Well County:	Williamson	Longitude:	097° 52' 48.97" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/26/2024** Drilling End Date: **8/26/2024**

Borehole:	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
	8.75	0	20
	6.25	20	550

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>
	-1	30	4 cement, 1 Benseal Bags/Sacks

Seal Method: **Slurry**

Sealed By: **Driller**

Distance to Property Line (ft.): **+75**

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

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Surface Completion by Driller

Water Level: **407 ft. below land surface on 2024-08-26** Measurement Method: **Sonic/Radar**

Packers: **Burlap & PVC 430', 410'
Burlap 30'**

Type of Pump: **Submersible**

Well Tests: **Estimated Yield: 13-15 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
407 - 550	Hensel

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: **James Benoit**

License Number: **4064**

Comments: **Drilled for A&W Water Well Service.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
0	3	topsoil
3	10	white chalk
10	405	blue lime
405	420	gray lime & clay
420	445	tan limestone
455	470	white limestone and sand
470	515	tan white limestone
515	540	gray limestone
540	550	blue 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	-3	470
4.5	Screen	New Plastic (PVC)	SDR17 0.020	470	530
4.5	Blank	New Plastic (PVC)	SDR17	530	550

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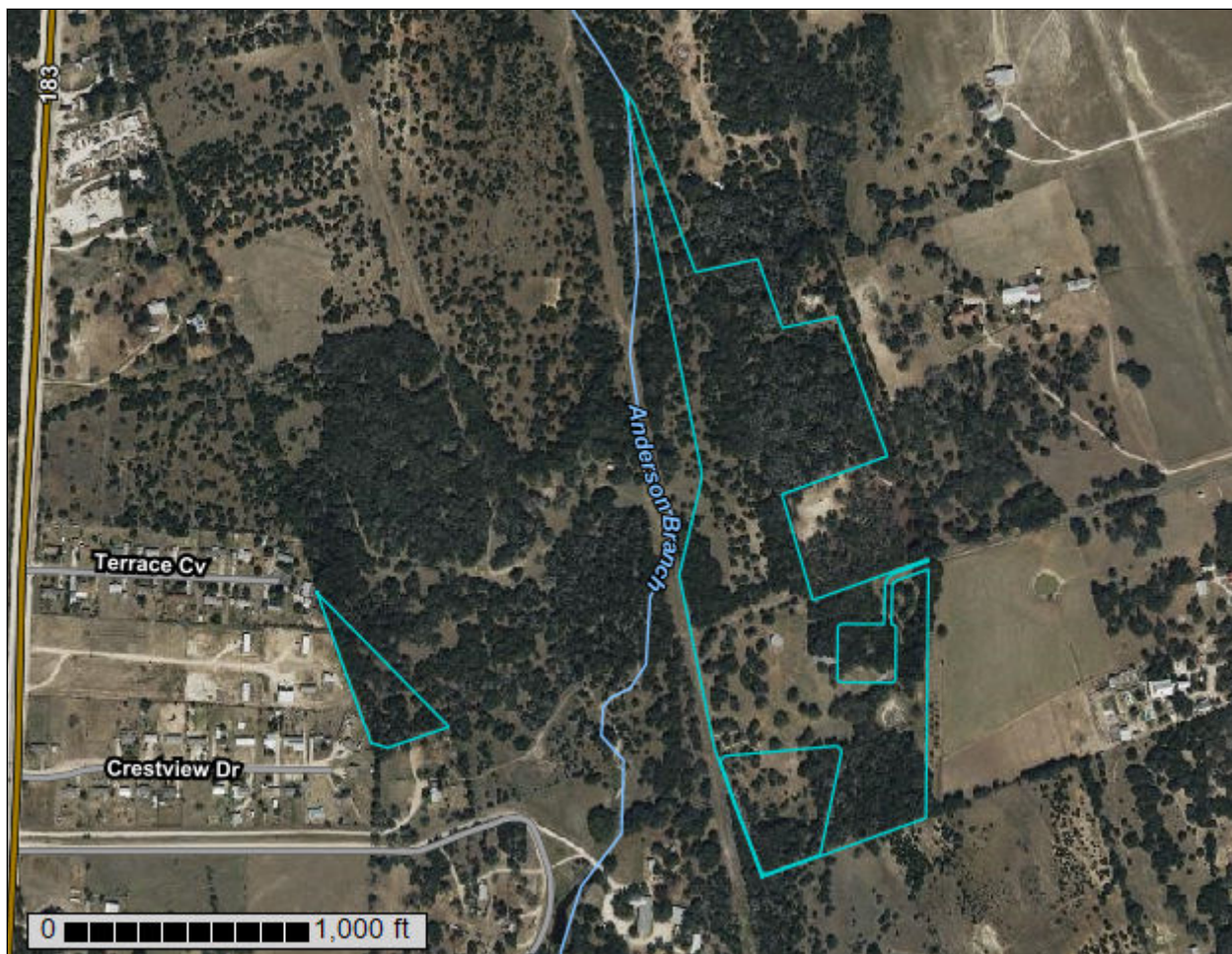
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NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Williamson County, Texas**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

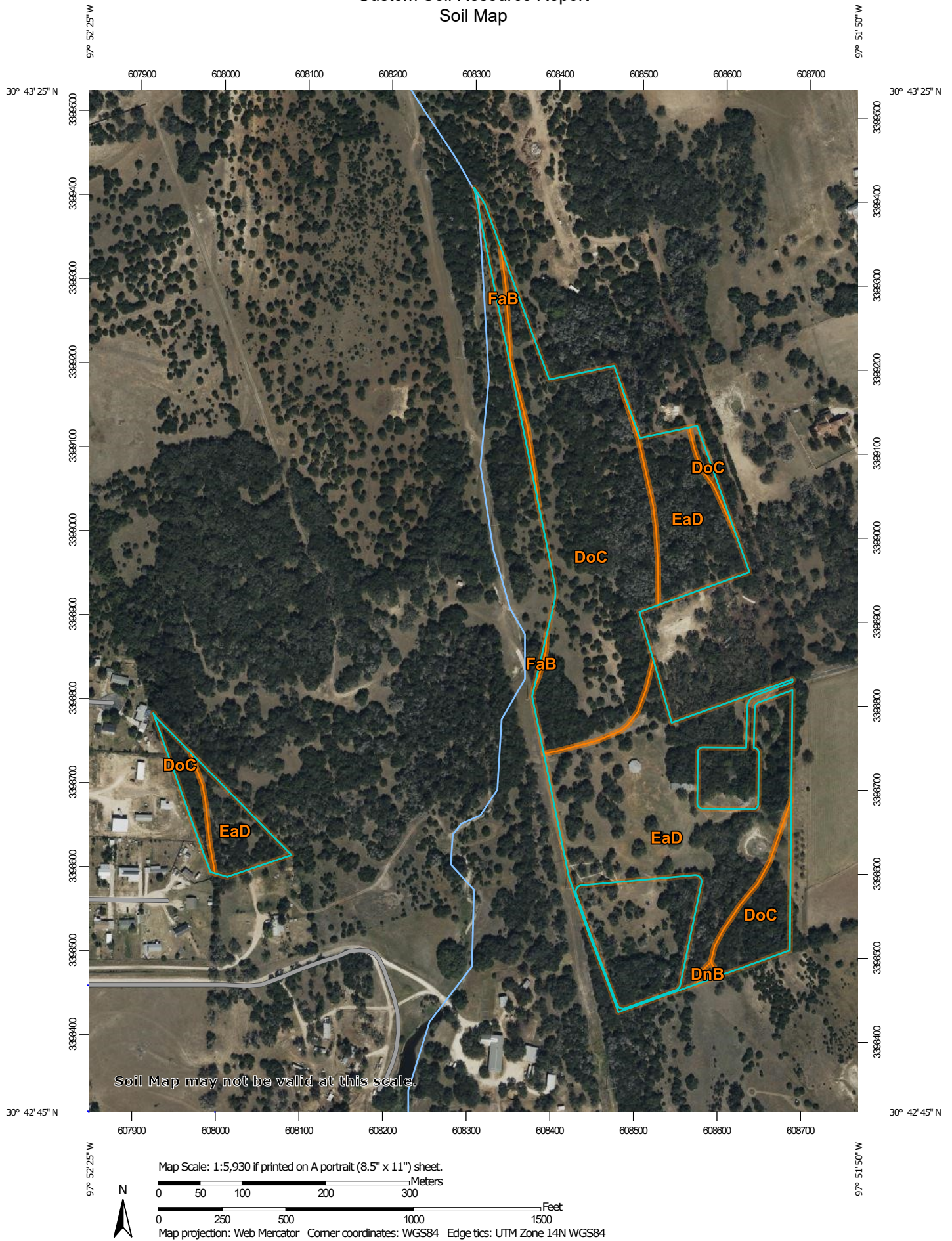
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot


 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other


 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Williamson County, Texas
Survey Area Data: Version 26, Sep 5, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DnB	Denton silty clay, 1 to 3 percent slopes	0.1	0.2%
DoC	Doss silty clay, moist, 1 to 5 percent slopes	17.8	47.4%
EaD	Eckrant cobbly clay, 1 to 8 percent slopes	19.0	50.5%
FaB	Fairlie clay, 1 to 2 percent slopes	0.7	1.9%
Totals for Area of Interest		37.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

Custom Soil Resource Report

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Williamson County, Texas

DnB—Denton silty clay, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2t26l
Elevation: 570 to 1,870 feet
Mean annual precipitation: 31 to 36 inches
Mean annual air temperature: 65 to 68 degrees F
Frost-free period: 220 to 260 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Denton and similar soils: 88 percent
Minor components: 12 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Denton

Setting

Landform: Hillslopes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Silty and clayey slope alluvium over residuum weathered from limestone

Typical profile

A - 0 to 14 inches: silty clay
Bw - 14 to 25 inches: silty clay
Bk - 25 to 33 inches: silty clay
Ck - 33 to 36 inches: gravelly silty clay
R - 36 to 80 inches: bedrock

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: 22 to 60 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 80 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Minor Components

Krum

Percent of map unit: 6 percent
Landform: Drainageways
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Doss

Percent of map unit: 4 percent
Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R081BY343TX - Shallow 23-31 PZ
Hydric soil rating: No

Anhalt

Percent of map unit: 2 percent
Landform: Hillslopes
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY358TX - Deep Redland 29-35 PZ
Hydric soil rating: No

DoC—Doss silty clay, moist, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2s0st
Elevation: 630 to 1,840 feet
Mean annual precipitation: 30 to 36 inches
Mean annual air temperature: 66 to 68 degrees F
Frost-free period: 210 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Doss and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Doss

Setting

Landform: Hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from limestone

Typical profile

A - 0 to 9 inches: silty clay
Bk - 9 to 17 inches: silty clay
Cr - 17 to 80 inches: bedrock

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 11 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 70 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D
Ecological site: R081CY574TX - Shallow 29-35 PZ
Hydric soil rating: No

Minor Components

Brackett

Percent of map unit: 7 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R081CY362TX - Steep Adobe 29-35 PZ
Hydric soil rating: No

Bolar

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R081CY357TX - Clay Loam 29-35 PZ

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Hydric soil rating: No

Eckrant

Percent of map unit: 1 percent

Landform: Ridges

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ

Hydric soil rating: No

Purves

Percent of map unit: 1 percent

Landform: Plains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R081CY574TX - Shallow 29-35 PZ

Hydric soil rating: No

Denton

Percent of map unit: 1 percent

Landform: Plains

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R081CY357TX - Clay Loam 29-35 PZ

Hydric soil rating: No

EaD—Eckrant cobbly clay, 1 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2t0sg

Elevation: 650 to 1,900 feet

Mean annual precipitation: 30 to 35 inches

Mean annual air temperature: 65 to 69 degrees F

Frost-free period: 210 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Eckrant and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eckrant

Setting

Landform: Ridges

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Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope, interfluvium

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

A1 - 0 to 4 inches: cobbly clay

A2 - 4 to 11 inches: very cobbly clay

R - 11 to 80 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent

Surface area covered with cobbles, stones or boulders: 2.3 percent

Depth to restrictive feature: 4 to 20 inches to lithic bedrock

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: R081CY360TX - Low Stony Hill 29-35 PZ

Hydric soil rating: No

Minor Components

Brackett

Percent of map unit: 7 percent

Landform: Ridges

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R081CY355TX - Adobe 29-35 PZ

Hydric soil rating: No

Bexar

Percent of map unit: 5 percent

Landform: Ridges

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R081CY361TX - Redland 29-35 PZ

Hydric soil rating: No

Krum

Percent of map unit: 3 percent
Landform: Ridges
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

FaB—Fairlie clay, 1 to 2 percent slopes

Map Unit Setting

National map unit symbol: djq1
Elevation: 550 to 850 feet
Mean annual precipitation: 30 to 42 inches
Mean annual air temperature: 64 to 68 degrees F
Frost-free period: 230 to 260 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Fairlie and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fairlie

Setting

Landform: Ridges
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Residuum weathered from austin chalk formation

Typical profile

H1 - 0 to 8 inches: clay
H2 - 8 to 46 inches: clay
H3 - 46 to 54 inches: bedrock

Properties and qualities

Slope: 1 to 2 percent
Depth to restrictive feature: 40 to 60 inches to paralithic bedrock
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent

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Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: D

Ecological site: R086AY011TX - Southern Blackland

Hydric soil rating: No

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FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Solids Management Plan

- a. **The dimensions (length x width x height) and capacities (gallons or cubic feet) of all sewage sludge handling and treatment units and processes.**

Phase I Sludge Holding Tank - (1) 16' dia X 10' SWD

Final Phase Sludge Holding Tank - (2) 16' dia X 10' SWD

- b. **Calculations showing the amount of solids generated at design flow and at 75%, 50%, and 25% of design flow.**

Calculations are based on the average influent BOD, as stipulated in Chapter 217.250 for firm dewatering capacity:

$$\text{Solids Generation} = (\text{Influent BOD}) \times (\text{Design Flow}) \times (0.98)$$

Phase I Flow 0.0655 mgd

Final Phase Flow 0.131 mgd

Average Influent BOD 350 mg/L

Design Influent BOD 350 mg/L

Solids Generated 0.98 Pound Solids

per Pound of BOD applied

Phase I at 100% Flow 187 lb/day

at 75% Flow 141 lb/day

at 50% Flow 94 lb./day

at 25% Flow 47 lb/day

Final Phase at 100% Flow 375 lb/day

at 75% Flow 281 lb/day

at 50% Flow 187 lb/day

at 25% Flow 94 lb/day

- c. **Operating range for mixed liquor suspended solids in the treatment process based on the design flow and the projected actual flow expected at the facility.**

Phase I 8000 - 12,000 mg/L

Final Phase 8000 - 12,000 mg/L

- d. **A description of the procedure and method of solids removal from both the wastewater and sludge treatment processes.**

The sludge wasting pumps will convey sludge from the treatment basins to the sludge holding basin in final phase. The sludge wasting pumps will be operated manually by the operator. The sludge holding basins/tanks will be pumped as a semi-liquid onto a transport truck where it will be taken to a permitted landfill.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Solids Management Plan

- e. **Quantity of solids to be removed from the process and schedule for removal of solids designed to maintain an appropriate solids inventory.**

Solids will be removed from the sludge holding tank on a 10-day rotation during final phase. The Featherhook Water Resource Recovery Facility currently does not plan to process waste activated sludge from other facilities in liquid or cake form through its sludge processing facilities.

- f. **Identification and ownership of the ultimate disposal site and a system of documenting the amount of solids disposed of, recorded in dry weight.**

The facility contracted for ultimate disposal is to be determined.



November 2025

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC-148)
12100 Park Thirty-Five Circle
Austin, TX 78753

Subject: Request for Reduction in Effluent Storage Requirement

To Whom It May Concern,

I am writing to formally request a modification to the storage requirements for the TLAP Application for Featherhook Water Resource Recovery Facility. Specifically, we are requesting a reduction in the required storage duration from 107 days shown on the water balance to 50 days of storage.

While our water balance calculations indicate a need for 107 days of storage, experience with similar facilities in the area show that these systems typically remain empty. For example, the wastewater treatment facility serving the Lariat Subdivision (WQ0015559001) in Liberty Hill has consistently operated without the need to maintain storage for 50 days' worth of effluent. The pond has maintained minimal levels, with an estimated maximum storage capacity of only 10 to 20 days—never reaching 50 days' worth.

Additionally, it is important to note that extreme weather events have occurred in certain years, which skews the water balance, exaggerating the required pond size.

Based on this regional operational data and an analysis of flows, we believe that a 50-day storage capacity is sufficient for Featherhook Water Resource Recovery Facility. In the event that the 50-day threshold is exceeded, we are fully prepared to implement pump and haul procedures to manage any excess volume as needed.

We kindly request your consideration of this adjustment and look forward to your feedback. If additional information or documentation is needed, please do not hesitate to contact me directly.

Sincerely,

A handwritten signature in black ink that reads 'Jamie L. Miller'.

Jamie L. Miller, P.E.
President
Firm Number F-23372

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Calculations
Phase I (65,500 GPD)

1	2	3	4	5	6	7	8		9	10	11
	Average Rain	Average Runoff	Average Infiltrated Rainfall	Evapo-transpiration	Required Leaching	Total Water Needs	Effluent Req'd in Root Zone	Average Evaporation	Evaporation from Reservoir	Effluent Applied to Land	Consumption from Reservoir
JAN	2.46	0.86	1.60	1.30	0.00	1.30	0.00	2.20	0.47	0.00	0.47
FEB	1.95	0.53	1.42	2.30	0.35	2.65	1.23	2.31	0.49	1.45	1.94
MAR	2.88	1.16	1.72	5.70	1.59	7.29	5.57	3.38	0.72	6.56	7.28
APR	2.63	0.98	1.65	3.42	0.71	4.13	2.48	4.19	0.89	2.92	3.81
MAY	4.31	2.30	2.01	6.12	1.64	7.76	5.75	4.62	0.99	6.77	7.76
JUN	2.96	1.22	1.74	6.48	1.90	8.38	6.64	6.11	1.30	7.81	9.11
JUL	2.21	0.69	1.51	6.66	2.06	8.72	7.20	6.94	1.48	8.48	9.96
AUG	2.36	0.79	1.57	4.59	1.21	5.80	4.23	7.02	1.50	4.98	6.48
SEP	3.13	1.35	1.78	5.13	1.34	6.47	4.69	5.31	1.13	5.51	6.65
OCT	4.20	2.21	1.99	4.05	0.82	4.87	2.88	4.03	0.86	3.39	4.25
NOV	2.81	1.11	1.70	1.60	0.00	1.60	0.00	2.84	0.61	0.00	0.61
DEC	2.25	0.72	1.53	1.30	0.00	1.30	0.00	2.11	0.45	0.00	0.45
TOTAL	34.15	13.93	20.22	48.65	11.62	60.27	40.68	51.07	10.89	47.86	58.75

12	13	14a	14b	15	16	17	18a		18b	19	20
	Effluent Applied to Land (in)	Mean Rainfall Distribution (%)	Maximum Rainfall (in)	Maximum Runoff (in)	Infiltrated Rainfall (in)	Total Avail H2O (in)	% Distribution of Mean	Min Annual Net Evap Proportionally Distributed (in)	Net Evaporation (min) (in)	Storage (in-ac/ac)	Accumulated Storage (in-ac/ac)
JAN	3.911	7.2	3.74	1.83	1.91	5.82	4.32	1.76	0.37	3.54	10.52
FEB	3.911	5.7	2.97	1.23	1.74	5.65	4.52	1.84	0.39	2.45	12.96
MAR	3.911	8.4	4.38	2.36	2.02	5.93	6.62	2.70	0.57	-2.87	10.10
APR	3.911	7.7	3.99	2.03	1.96	5.87	8.20	3.34	0.71	0.64	10.74
MAY	3.911	12.6	6.55	4.28	2.27	6.18	9.05	3.68	0.79	-3.34	7.40
JUN	3.911	8.7	4.49	2.45	2.04	5.95	11.96	4.87	1.04	-4.59	2.82
JUL	3.911	6.5	3.35	1.52	1.83	5.74	13.59	5.53	1.18	-5.37	-2.55
AUG	3.911	6.9	3.59	1.71	1.88	5.79	13.74	5.59	1.19	-1.89	-4.44
SEP	3.911	9.2	4.76	2.68	2.08	5.99	10.40	4.24	0.90	-2.16	-6.60
OCT	3.911	12.3	6.39	4.13	2.25	6.17	7.89	3.21	0.68	0.15	-6.46
NOV	3.911	8.2	4.26	2.26	2.00	5.91	5.57	2.27	0.48	3.43	3.43
DEC	3.911	6.6	3.42	1.57	1.85	5.76	4.14	1.68	0.36	3.55	6.98
TOTAL	46.93	100.00	51.88	28.05	23.83	70.76	100.00	40.71	8.68		

Hydro Group	D	
Curve Number (N)	80	
S = 1000/N - 10	2.50	
C _E	2	
C ₁	7	
Irrigation Efficiency	0.85	
Effluent Quantity	65,500	gpd
Pond Area	4	acres
Disposal area	18.8	acres
Max Year Annual Rainfall	51.88	inches
Min Year Annual Evaporation	40.71	inches

Application Rate	0.080	gal/sqft/day
	3.91	ac-ft/ac/yr

Required Pond Capacity	20.27	acre-ft
	6.60	MG
	6,603,928.9	gallons
	101	days

50-day Pond Capacity	3.28	MG
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Pond depth for req capacity	5.07	feet
Pond depth for 50 day capacity	2.51	feet



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Calculations
Final Phase (131,000 GPD)

1	2	3	4	5	6	7	8		9	10	11
	Average Rain	Average Runoff	Average Infiltrated Rainfall	Evapo-transpiration	Required Leaching	Total Water Needs	Effluent Req'd in Root Zone	Average Evaporation	Evaporation from Reservoir	Effluent Applied to Land	Consumption from Reservoir
JAN	2.46	0.86	1.60	1.30	0.00	1.30	0.00	2.20	0.23	0.00	0.23
FEB	1.95	0.53	1.42	2.30	0.35	2.65	1.23	2.31	0.25	1.45	1.70
MAR	2.88	1.16	1.72	5.70	1.59	7.29	5.57	3.38	0.36	6.56	6.92
APR	2.63	0.98	1.65	3.42	0.71	4.13	2.48	4.19	0.45	2.92	3.36
MAY	4.31	2.30	2.01	6.12	1.64	7.76	5.75	4.62	0.49	6.77	7.26
JUN	2.96	1.22	1.74	6.48	1.90	8.38	6.64	6.11	0.65	7.81	8.46
JUL	2.21	0.69	1.51	6.66	2.06	8.72	7.20	6.94	0.74	8.48	9.21
AUG	2.36	0.79	1.57	4.59	1.21	5.80	4.23	7.02	0.75	4.98	5.73
SEP	3.13	1.35	1.78	5.13	1.34	6.47	4.69	5.31	0.57	5.51	6.08
OCT	4.20	2.21	1.99	4.05	0.82	4.87	2.88	4.03	0.43	3.39	3.82
NOV	2.81	1.11	1.70	1.60	0.00	1.60	0.00	2.84	0.30	0.00	0.30
DEC	2.25	0.72	1.53	1.30	0.00	1.30	0.00	2.11	0.22	0.00	0.22
TOTAL	34.15	13.93	20.22	48.65	11.62	60.27	40.68	51.07	5.43	47.86	53.29

12	13	14a	14b	15	16	17	18a		18b	19	20
	Effluent Applied to Land (in)	Mean Rainfall Distribution (%)	Maximum Rainfall (in)	Maximum Runoff (in)	Infiltrated Rainfall (in)	Total Avail H2O (in)	% Distribution of Mean	Min Annual Net Evap Proportionally Distributed (in)	Net Evaporation (min) (in)	Storage (in-ac/ac)	Accumulated Storage (in-ac/ac)
JAN	3.903	7.2	3.74	1.83	1.91	5.81	4.32	1.76	0.19	3.72	11.10
FEB	3.903	5.7	2.97	1.23	1.74	5.64	4.52	1.84	0.20	2.64	13.74
MAR	3.903	8.4	4.38	2.36	2.02	5.92	6.62	2.70	0.29	-2.59	11.15
APR	3.903	7.7	3.99	2.03	1.96	5.86	8.20	3.34	0.36	0.99	12.14
MAY	3.903	12.6	6.55	4.28	2.27	6.17	9.05	3.68	0.39	-2.95	9.19
JUN	3.903	8.7	4.49	2.45	2.04	5.94	11.96	4.87	0.52	-4.07	5.12
JUL	3.903	6.5	3.35	1.52	1.83	5.73	13.59	5.53	0.59	-4.79	0.33
AUG	3.903	6.9	3.59	1.71	1.88	5.78	13.74	5.59	0.60	-1.30	-0.97
SEP	3.903	9.2	4.76	2.68	2.08	5.98	10.40	4.24	0.45	-1.72	-2.69
OCT	3.903	12.3	6.39	4.13	2.25	6.16	7.89	3.21	0.34	0.48	-2.21
NOV	3.903	8.2	4.26	2.26	2.00	5.90	5.57	2.27	0.24	3.66	3.66
DEC	3.903	6.6	3.42	1.57	1.85	5.75	4.14	1.68	0.18	3.72	7.39
TOTAL	46.83	100.00	51.88	28.05	23.83	70.66	100.00	40.71	4.33		

Hydro Group	D	
Curve Number (N)	80	
S = 1000/N - 10	2.50	
C _E	2	
C ₁	7	
Irrigation Efficiency	0.85	
Effluent Quantity	131,000	gpd
Pond Area	4	acres
Disposal area	37.6	acres
Max Year Annual Rainfall	51.88	inches
Min Year Annual Evaporation	40.71	inches

Application Rate	0.080	gal/sqft/day
	3.90	ac-ft/ac/yr

Required Pond Capacity	43.05	acre-ft
	14.03	MG
	14,025,319.1	gallons
	107	days

50-day Pond Capacity	6.55	MG
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Pond depth for req capacity	10.76	feet
Pond depth for 50 day capacity	5.03	feet



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Engineering Report

Water balance and storage volume calculations have been completed for Interim Phase I and Final Phase. At full build-out of 131,000 gpd, 37.6 acre area disposal and effluent storage of 14.03 MG are required. The effluent storage pond required for full buildout is 13.4 MG. The following is a summary providing references/sources for the data used to develop the tables. Also enclosed are the irrigation efficiency assumptions, summary of the application rates per month per acre, nitrogen loading, and water balance. The clarifications are below, water balance with storage volume calculations is presented separately as their own attachments titled "Water Balance".

Water Balance Table Column	Assumptions and References/Sources
Column 2: Average Rainfall	Data obtained from Texas Water Development Board Quadrangle 710; https://waterdatafortexas.org/lake-evaporation-rainfall ; years 1998 - 2023.
Column 3: Average Runoff	Curve number (CN) was obtained from SCS Technical Release No. 55. A curve number of 80 was used, considering lawns and parks in fair condition (grass cover between 50% to 75%) in soils that fall into hydro groups D.
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 6019 (Consumptive Use of Water by Major Crops in Texas). Average monthly and annual consumptive use, Table 5 - Area 7C for Warm Season (April-October), Kc of 0.9 used for Bermuda grass. Table 8 - Area 7C for Cool Season (November-March), used for small grain, Winter Rye.
Column 6: Required Leaching	Ce (electrical conductivity) was based on a close by groundwater well, a value of 2 mmhos/cm was used. Cl (allowable conductivity of soil) = 7 based on 30 TAC 309.20, Table 3, Winter Rye and Bermuda grass.
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 710; https://waterdatafortexas.org/lake-evaporation-rainfall ; years 1998 - 2023.
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 13: Effluent Received for Application or Storage	Based on full buildout flows of 131,000 gpd and 37.6 acres of TLAP disposal area.

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Engineering Report

Column 14: Rainfall (Maximum)	Data on maximum rainfall year in the past 25 years was obtained from Texas Water Development Board Quadrangle 710 Precipitation (inches) from 1998 to 2023, 51.88 inches in 2004. The total was distributed proportionally to monthly average rainfall.
Column 15: Runoff (Maximum)	Calculated as shown above for Column 3 using maximum rainfall numbers from Column 14.
Column 16: Infiltrated Rainfall	Obtained by subtracting maximum runoff (Column 15) from maximum rainfall (Column 14).
Column 17: Available Water	Obtained by adding effluent received (Column 13) and infiltrated rainfall (Column 16).
Column 18b: Lowest Annual Net Evaporation	Data on minimum net evaporation year in the past 25 years was obtained from Texas Water Development Board Quadrangle 710, Monthly Evaporation (inches) from 1998 to 2023: 40.71 inches in 2021. The total was distributed proportionally to monthly average evaporation.
Column 19: Storage	Obtained by subtracting lowest annual net evaporation (Column 18b) from effluent received (Column 13), then subtracting total water needs (Column 7) - infiltrated rainfall (Column 16) divided by k (irrigation efficiency of 0.85). If total water needs (Column 7) - infiltrated rainfall (Column 16) divided by k (irrigation efficiency of 0.85) is < 0, then storage = Column 13 - Column 18b).
Column 20: Accumulated Storage	Summation beginning with the first consecutive month of possible values from Column 19.

Irrigation Efficiency

Based on Howell 2003, average irrigation efficiency for spray irrigation in a field environment ranges from 85 to 90 percent. Therefore, an efficiency of 85 percent was assumed for water balance and storage calculations.

Nitrogen Balance

It is anticipated that total nitrogen in the effluent will be ≤ 30 mg/L. Loading will be as follows:

$$30 \text{ mg/L} \times 131,000 \text{ g/day} \times 3.78 \text{ L/g} / 453,592 \text{ lbs/mg} \times 365 \text{ day/year} =$$

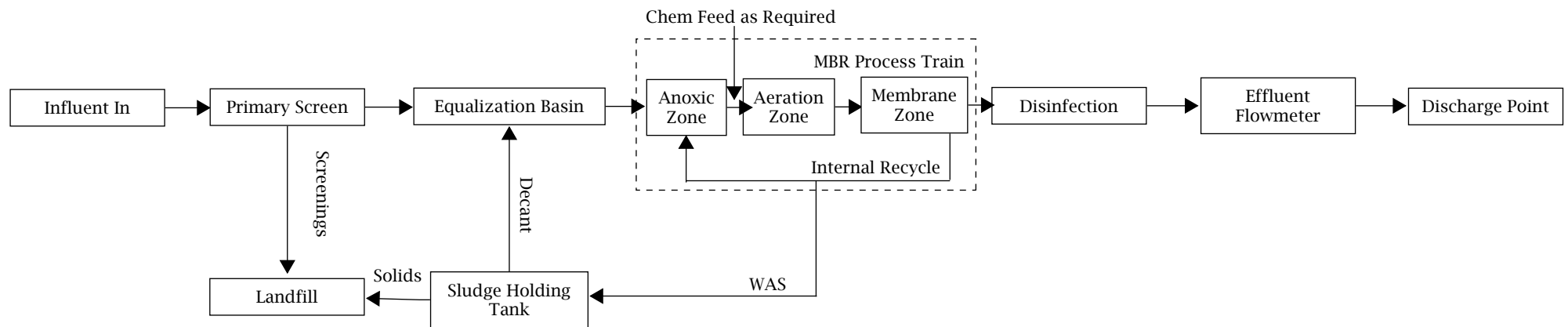
$$11,954 \text{ lbs/year spread across } 37.6 \text{ acres} = 318 \text{ lbs/acre/year}$$

Bermuda grass is able to utilize large amounts of nitrogen, with excellent yield response at around 400 pounds per acre per year. (See: Nutrient Demand High In Bermuda grass by Darst, et al. 1996).

FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)

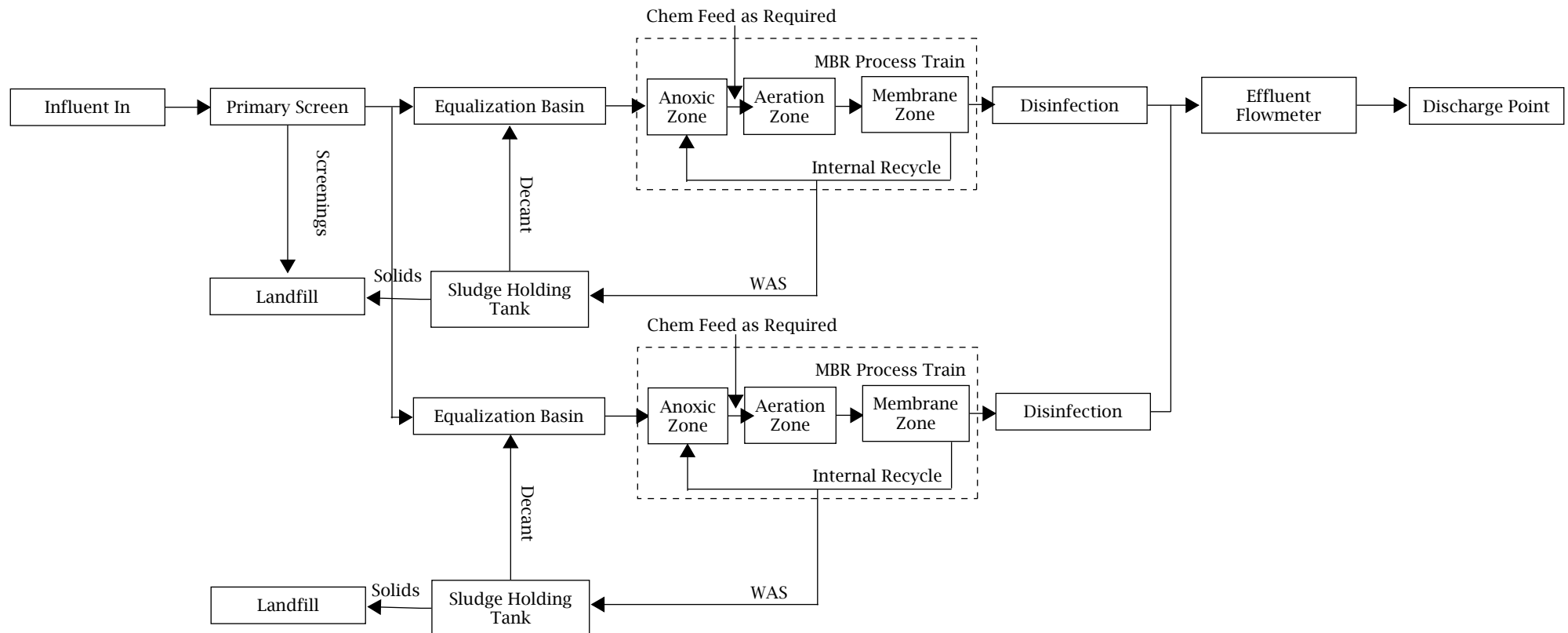
Process Flow Diagram

Phase I (0.0655 MGD)

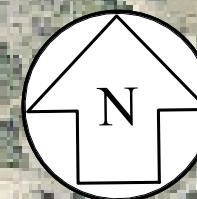


FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)
Process Flow Diagram

Final Phase (0.131 MGD)



FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY (WRRF)
Site Map



APPLICANT PROPERTY

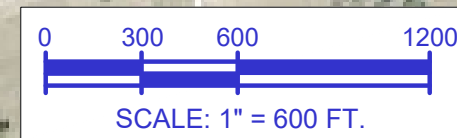
100' SETBACK FROM WATERS OF THE STATE

WATER RESOURCE RECOVERY FACILITY

150' BUFFER ZONE

DISPOSAL AREA
37.6 ACRES

50-DAY EFFLUENT STORAGE POND
6.55 MG



Candice Calhoun

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Monday, November 24, 2025 4:06 PM
To: Candice Calhoun
Cc: Jamie Miller
Subject: Re: Application for Proposed Permit No. WQ0016909001 [SV2 Alexander LLC +] - Notice of Deficiency
Attachments: Mailing Labels.docx; Spanish Translation.docx; 2025.11.24_NOD Response.pdf

Hi Candice,

Please see our response to the Notice of Deficiency for Featherhook WRRF.

This Part 1 of 2 attachments contains:

- Response to NOD
- USGS Map
- Affected Landowner Map (parcel visibility might have been an upload issues on STEERS, so please let me know if this version still has visibility issues)
- Word doc for mailing labels

Thanks,
Janela Revilla, PE



From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Monday, November 24, 2025 3:15 PM
To: Janela Revilla <jrevilla@jawastewater.com>
Subject: Application for Proposed Permit No. WQ0016909001 [SV2 Alexander LLC +] - Notice of Deficiency

Good afternoon, Janela,

The attached Notice of Deficiency (NOD) letter dated November 24, 2025, requests additional information needed to declare the application administratively complete. Please send complete response no later than December 9, 2025.

If you have any questions, please let me know.

Regards,



Candice Courville

License & Permit Specialist

ARP Team | Water Quality Division

Texas Commission on Environmental
Quality

512-239-4312

candice.calhoun@tceq.texas.gov

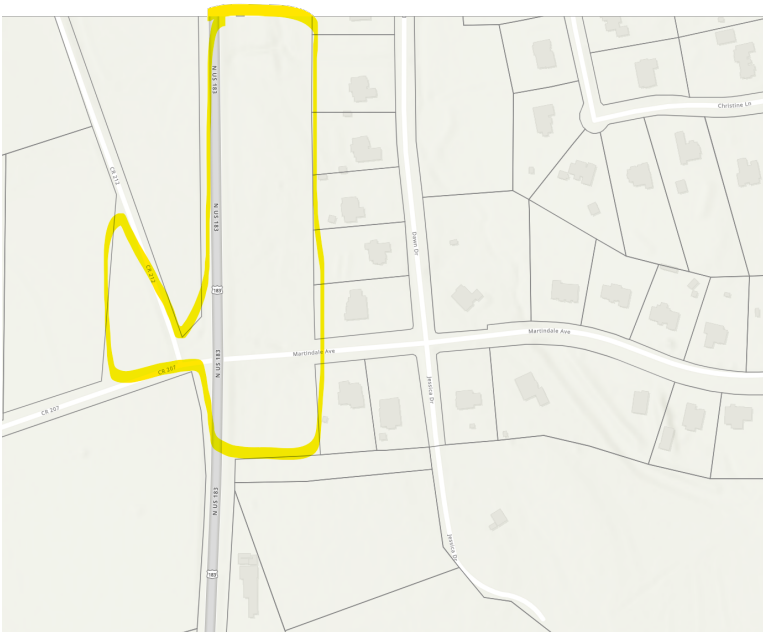
How is our customer service? Fill out our online customer satisfaction survey at
www.tceq.texas.gov/customersurvey

Candice Calhoun

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Tuesday, November 25, 2025 9:53 AM
To: Candice Calhoun
Cc: Jamie Miller
Subject: Re: Application for Proposed Permit No. WQ0016909001 [SV2 Alexander LLC +] - Notice of Deficiency
Attachments: Affected Landowner Map.pdf

Good morning Candice,

That corner actually doesn't contain a parcel, according to the Williamson Appraisal Website. I did update the callout to include "Applicant Property/ Project Boundary" 👍



Thanks,
Janela Revilla, PE



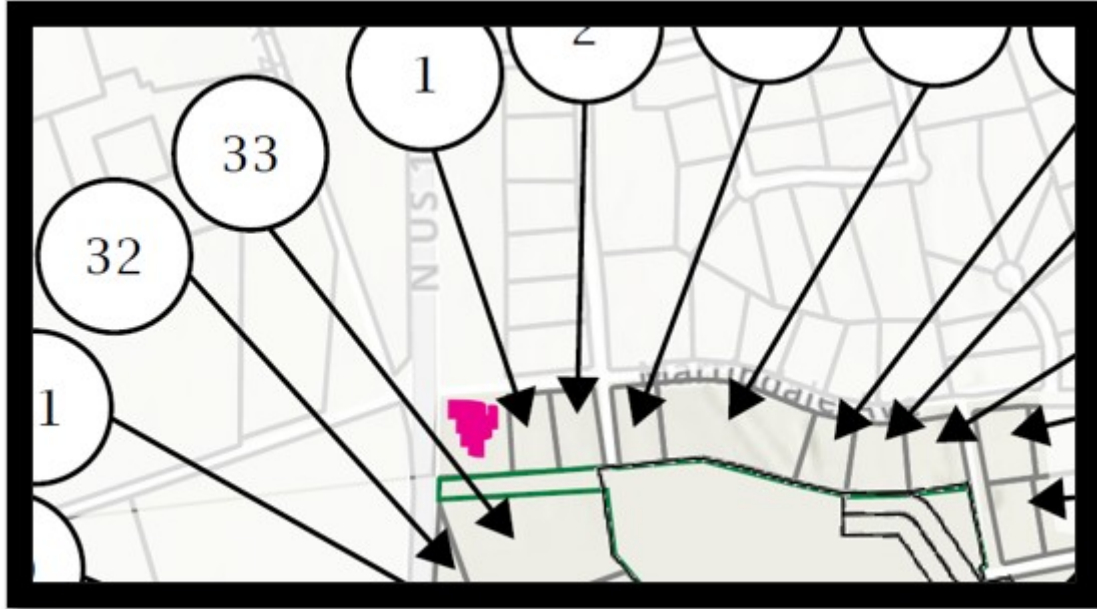
Janela Revilla, PE
Project Engineer
(737) 864-3476
jrevilla@jawastewater.com
3410 Far West Blvd, Suite 170 Austin, TX 78731

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, November 25, 2025 7:55 AM
To: Janela Revilla <jrevilla@jawastewater.com>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: RE: Application for Proposed Permit No. WQ0016909001 [SV2 Alexander LLC +] - Notice of Deficiency

Janela,

Thank you, your response for items 1, 3, 4, and 5 is sufficient, However, more information is needed for item 2. Please see below:

- The landowner map looks like it is missing a landowner as well as did not label the facility boundaries and applicant boundaries. Please provide a revised map, as well as a revised list and labels, if applicable. The missing landowner is marked in pink below.



If you have any additional questions, please let me know.

Regards,



Candice Courville

License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental
Quality
512-239-4312
candice.calhoun@tceq.texas.gov

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

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Monday, November 24, 2025 4:06 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: Re: Application for Proposed Permit No. WQ0016909001 [SV2 Alexander LLC +] - Notice of Deficiency

Hi Candice,

Please see our response to the Notice of Deficiency for Featherhook WRRF.



November 24, 2025

Candice Calhoun
Water Quality Assessment Team/Water Quality Division
Texas Commission on Environmental Quality (MC-150)
PO Box 13087
Austin, TX 78711-3087

Good afternoon Ms. Calhoun

Please see our responses below regarding the Notice of Deficiency for the permit application for Featherhook WRRF (WQ0016909001).

1. USGS Topographic Map: The USGS map provided did not label the site boundaries. If this is one in the same with the applicant's property boundary, please label it as such.

Please see attached USGS map.

2. Affected Landowner Map: The affected landowner parcels are not visible on the landowner map provided. Please provide a revised landowner map with visible parcels.

Please see attached Affected Landowner Map.

3. Affected Landowner Mailing Labels: Please provide the mailing labels in a Microsoft Word document.

Please see attached Word document of mailing labels.

4. 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.

This is correct.

5. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

Please see attached Spanish translation.

Please let us know if you need anything else.

Thank you,

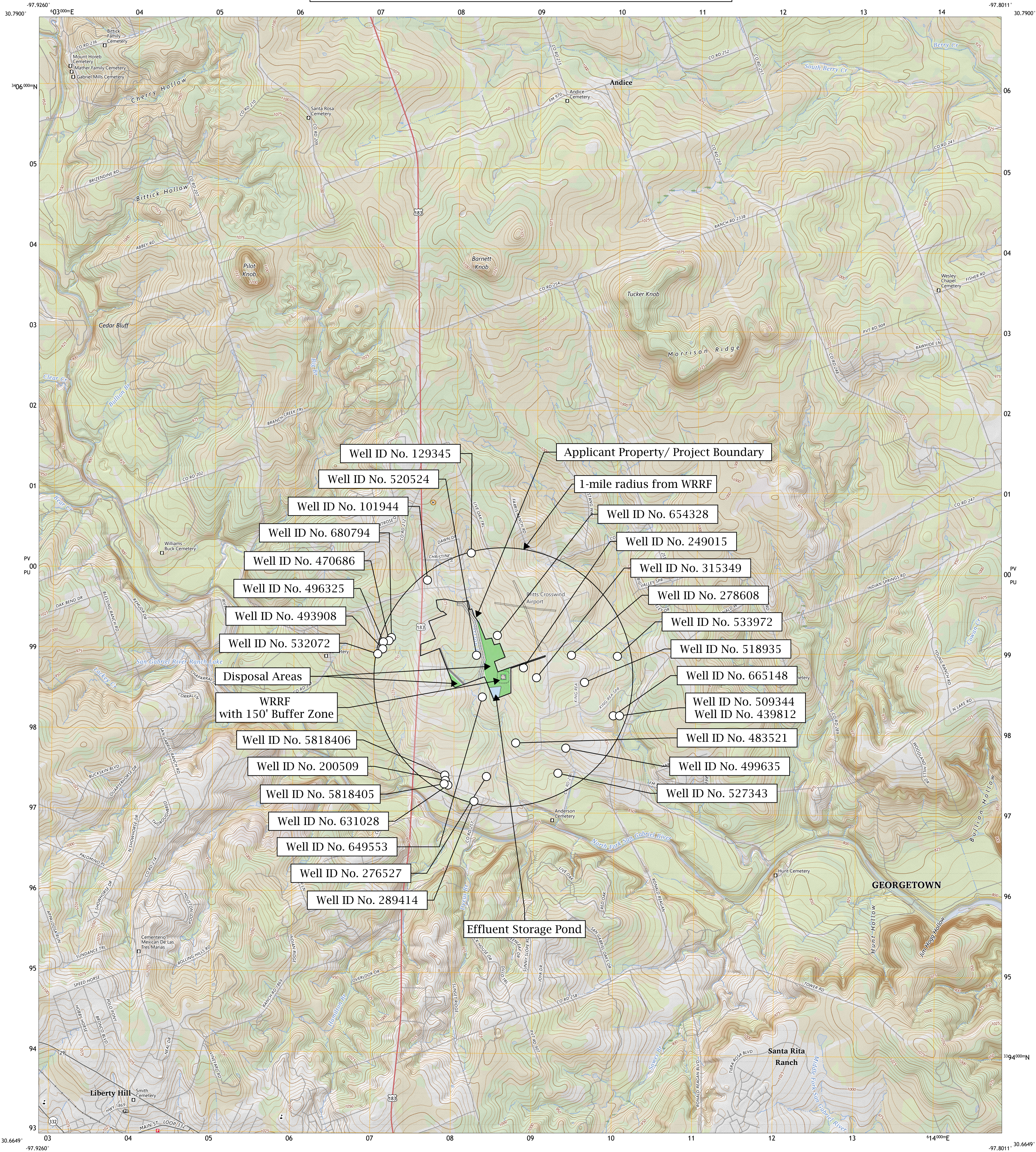
Janela Revilla, P.E.
Project Engineer
JA Wastewater, LLC



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

FEATHERHOOK WATER RESOURCE RECOVERY FACILITY (WRRF) USGS Map

7.5-MINUTE TOPO QUADRANGLE
TEXAS - CUSTOM EXTENT
7.5-MINUTE TOPO

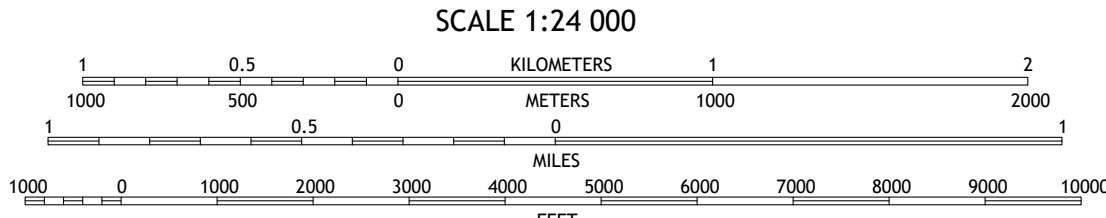
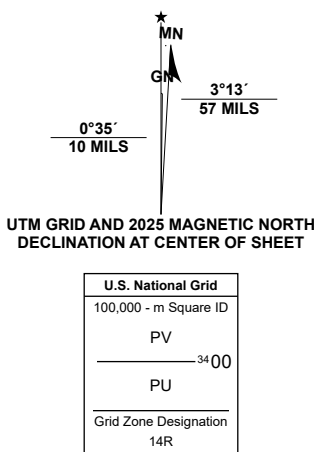


Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84) Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R
Data is provided by The National Map (TNM), is the best available at the time of map
generation, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

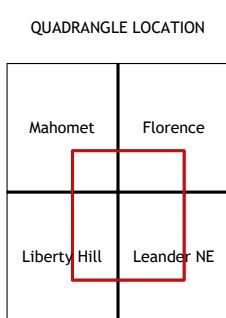
This map is not a legal document. Boundaries may be generalized for this map scale.
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were collected and some data may no longer represent actual surface conditions.

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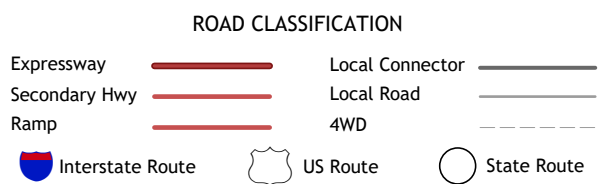


CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



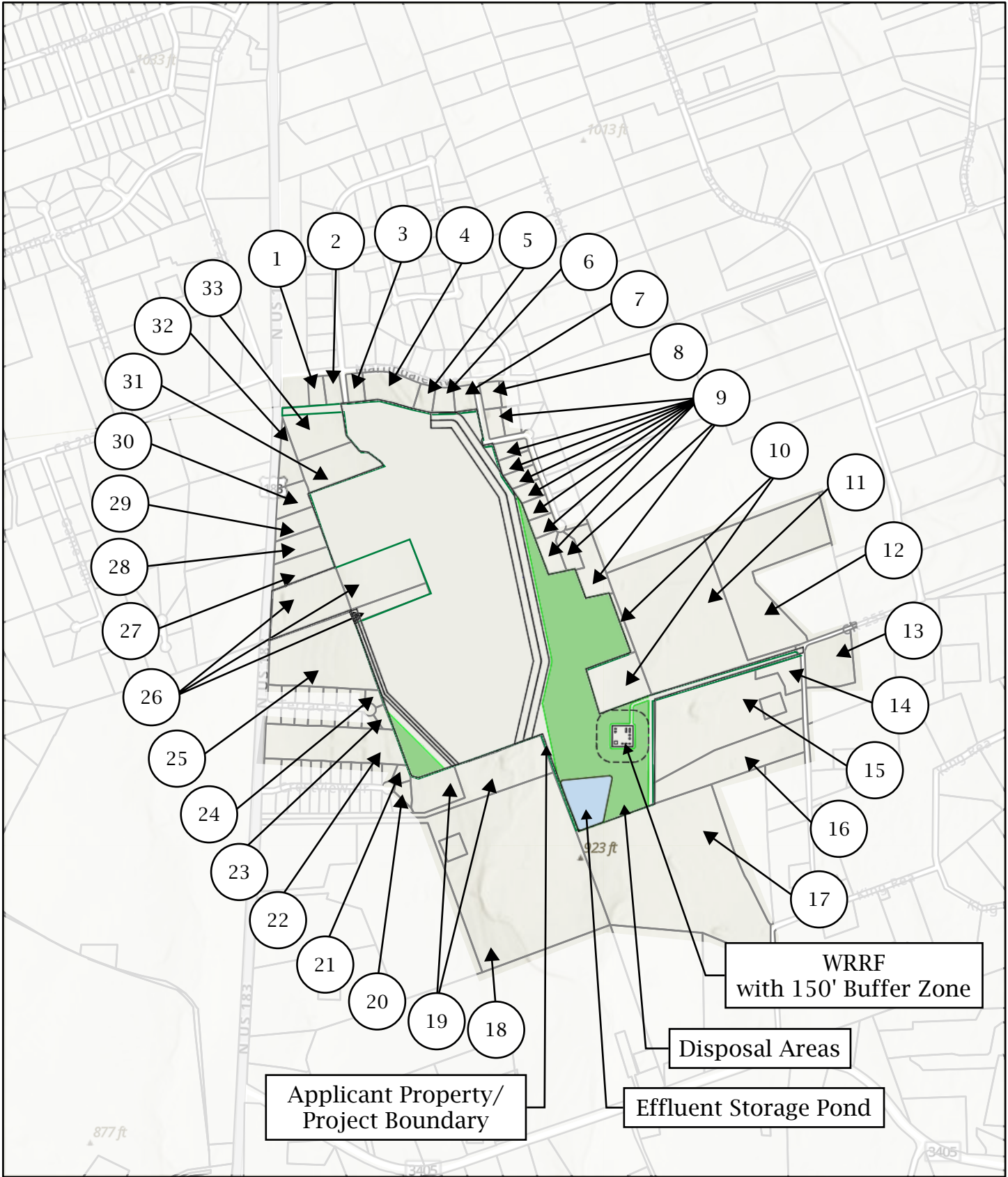
ADJOINING QUADRANGLES



7.5-MINUTE TOPO, TX
2025

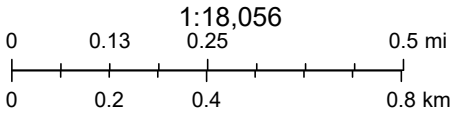


FEATHERHOOK
WATER RESOURCE RECOVERY FACILITY
Affected Landowner Map



11/18/2025, 5:01:41 PM

Parcels



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community