Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
   - English
   - Alternative Language (Spanish)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
   - English
   - Alternative Language (Spanish)
3. 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, el Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the blanks below to describe your facility and application. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

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

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

DOMESTIC WASTEWATER

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

Capstone Property Management, LLC (CN 606026169) operates the Aztec Estates Mobile Home Park (RN 106656671) a mobile home park which treats and disposes of sewage for 89 connections consisting of 84 mobile home units, 3 apartments, 1 brick house, and 1 commercial onsite beauty shop. The facility is located at 11704 South US Highway 181 in San Antonio, Bexar County, Texas 78223.

The application is to permit an existing Domestic Wastewater Discharge Permit to dispose a daily average flow of 8,741 gpd of treated domestic wastewater via an onsite sanitary wastewater sub-surface irrigation system with a minimum area of 2.18 acres. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain domestic septic waste. Domestic septic waste will be treated by *in-series septic tanks prior to discharge into a proprietary on-site gravel-less chamber system.*

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose "operates" in this section for existing facility applications or choose "proposes to operate" for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example, a domestic permit might specify: city ISD, MUD, etc.
8. Choose "is" for an existing facility or "will be" for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., domestic wastewater.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Examples

Example 1: Domestic Wastewater TPDES Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 2: TPDES New Application

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

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: TLAP Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS TPDES o TLAP

AGUAS RESIDUALES DOMÉSTICAS

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

Capstone Property Management, LLC (CN66026169) opera el Parque de Casas Móviles Aztec Estates (RN10665667) un parque de casas móviles que trata y elimina aguas residuales para 89 conexiones que consta de 84 unidades de casas móviles, 3 apartamentos, 1 casa de ladrillos, y 1 salón de belleza comercial, que en total genera aproximadamente 8,741 galones por día. La instalación está ubicada en 11704 South US Highway 181 en San Antonio, condado de Bexar, Texas 78223.

La solicitud es para permitir que un Permiso de Descarga de Aguas Residuales Domésticas existente elimine un flujo promedio diario de 8,741 gpd de aguas residuales domésticas tratadas a través de un sistema de riego subterráneo de aguas residuales sanitarias in situ con un área mínima de 2.18 acres. Este permiso no autorizará una descarga de contaminantes a aguas del estado. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan desechos sépticos domésticos. Los desechos sépticos domésticos serán tratados mediante tanques sépticos en serie antes de descargarlos en un sistema de cámara sin grava patentado en el sitio.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016597001

APPLICATION. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin Texas 78731, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016597001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 8,741 gallons per day via subsurface application of 2.18 of acres of land. The facility and disposal area will be located at 11704 South U.S. Highway 181, near the city of San Antonio, in Bexar County, Texas 78223. TCEQ received this application on August 9, 2024. The permit application will be available for viewing and copying at Elmendorf Community Library, front desk, 203 Bexar Avenue, Elmendorf, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.379166,29.302777&level=18

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

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

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Capstone Property Management, LLC at the address stated above or by calling Ms. Gabriella Fitzgerald, Braun Intertec Corporation, at 832-610-9024.

Issuance Date: September 19, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0016597001

SOLICITUD. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0016597001 para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 8,741 galones por día por medio de aplicación en el subsuelo de 2.18 acres de tierra. Las instalaciones y el área de disposición están ubicados en 11704 South U.S. Highway 181, en la ciudad de San Antonio, en el Condado de Bexar, Texas 78223. La TCEQ recibió esta solicitud el día 9 de agosta del 2024. La solicitud para el permiso está disponible para leer y copiar en la biblioteca comunitaria de Elmendorf, recepción, 203 Bexar Avenue, Elmendorf, Texas, antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.379166,29.302777&level=18

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

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

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

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

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

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

derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.

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

CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: www.tceq.texas.gov.

También se puede obtener información adicional del Capstone Property Management, LLC a la dirección indicada arriba o llamando a Gabriela Fitzgerald, Braun Intertec Corporation, al 832-610-9024.

Fecha de emisión 19 de septiembre de 2024

BRAUN INTERTEC
The Science You Build On.

Braun Intertec Corporation
10075 Windfern Road
Houston, TX 77064

Phone:713.316.0025
Fax: 512.493.9693
Web: braunintertec.com

August 9, 2024 Project B2303494

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC-148)
P.O. Box 13087
Austin TX 78711-3087

Re: Domestic Wastewater Permit
Customer Number: CN606026169
Capstone Property Management, LLC
Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas 78223

To Whom It May Concern:

Braun Intertec Corporation is submitting the enclosed revised Texas Land Application Permit (TLAP) application for a Domestic Wastewater and Class V Injection well/Sub-surface irrigation system for the Aztec Estates MHP facility located at 11704 South US Highway 181 in San Antonio, Texas (Site). This application package (Package) includes the Administrative Report, Plain Language Summary, Technical Report, Core Data Form, and the Public Involvement Plan.

Given your guidance provided to us in meetings and discussions with you and others on your team, we are proposing the following approach to permitting the Aztec Mobile Home Park sanitary discharges. Our understanding from your guidance is that there are 4 key design criteria that should be met in order to resolve the outstanding TCEQ enforcement order and proceed with permitting of this facility. These criteria, as explained to us, are:

- The lateral system would need to be looped to achieve even distribution – The lateral lines are looped, and this was confirmed in the field investigation conducted last year;
- The overall system would need 3 days of wet weather storage – The system currently meets this requirement.
- The wastewater application rate is limited to 0.1 gallons/day/ft^2 of lateral field – An evaluation of historical flow data from water meters installed in each of the homes served by the system indicates that the lateral field area is adequate; and
- The application system would have to have equal pressure and distribution throughout, accomplished by pumping wastewater to the application fields – The system currently operates as a gravity flow system, but the permittee has committed to installing the necessary pumping modifications. The permittee is proposing to install these upgrades while the permit application is undergoing technical review and processing, such that the system will be in place and functional by the time the permit is issued.

The application fee was submitted separately via ACH, and a copy of the payment was included in the enclosed Package. In accordance with the Instructions for Completing the Industrial Wastewater Permit Application, one original and four copies of this Package are submitted.

We appreciate your assistance in review of this Package. If you have any technical questions regarding the Package, or require additional information, please contact me at 713.598.1167 or dbelhateche@braunintertec.com

Sincerely,

BRAUN INTERTEC CORPORATION

Dannelle H. Belhateche, PE
Environmental Technical Director
Vice President, Principal Consultant

Janice King, CPSWQ, CPESC
Principal Consultant

cc: Mr. John M. Harlan, Capstone Property Management, LLC

Table of Contents

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Capstone Property Management, LLC

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: 656833

Copy of Payment Voucher enclosed? Yes ☒ Attachment A

Section 2. Type of Application (Instructions Page 26)

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

☐ Publicly-Owned Domestic Wastewater

☒ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 Click to enter text.

EPA I.D. (TPDES only): TX Click to enter text.

Expiration Date: Click to enter text.

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

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

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

Capstone Property Management, LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

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

CN: 606026169

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

Prefix: Mr. Last Name, First Name: John M. Harlan

Title: Managing Member Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: Click to enter text.

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Janice King

Title: Principal Consultant Credential: CPESC, CPSWQ

Organization Name: Braun Intertec Corporation

Mailing Address: 2105 Donley Drive, Ste 400 City, State, Zip Code: Austin, Texas, 78758

Phone No.: 512.221.8902 E-mail Address: JaKing@braunintertec.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

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

Check one or both: ☐ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: John M. Harlan

Title: Managing Member Credential: Click to enter text.

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

B. Prefix: Ms. Last Name, First Name: Janice King

Title: Principal Consultant Credential: CPESC, CPSWQ

Organization Name: Braun Intertec Corporation

Mailing Address: 2105 Donley Drive, Ste 400 City, State, Zip Code: Austin, Texas, 78758

Phone No.: 512.221.8902 E-mail Address: JaKing@braunintertec.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: John M. Harlan

Title: Managing Member Credential: Click to enter text.

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

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

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

Prefix: Mr. Last Name, First Name: John M. Harlan

Title: Managing Member Credential: Click to enter text.

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Gabriella Fitzgerald

Title: Senior Manager Credential: Click to enter text.

Organization Name: Braun Intertec Corporation

Mailing Address: 10075 Windfern Road City, State, Zip Code: Houston, Texas 77064

Phone No.: 832.610.9024 E-mail Address: gfitzgerald@braunintertec.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Gabriella Fitzgerald

Title: Senior Manager Credential: Click to enter text.

Organization Name: Braun Intertec Corporation

Mailing Address: 10075 Windfern Road City, State, Zip Code: Houston, Texas 77064

Phone No.: 832.610.9024 E-mail Address: gfitzgerald@braunintertec.com

D. Public Viewing Information

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

Public building name: Elmendorf Community Library

Location within the building: Front desk

Physical Address of Building: 203 Bexar Avenue

City: Elmendorf County: Bexar

Contact (Last Name, First Name): Darlene Hicks

Phone No.: 210.288.7826 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: C

G. Public Involvement Plan Form

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

Attachment: D

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 106656671

Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Aztec Estates Mobile Home Park

C. Owner of treatment facility: Capstone Property Management, LLC

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

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

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

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

Attachment: Click to enter text.

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

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

This is a new permit application.

B. City nearest the disposal site: San Antonio

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

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

There are no accessible sewer mains within 200 or 300 feet (200 - City, 300 - County) in the vicinity of the property. Since a sewer main extension cannot be established the San Antonio Water System will not object to the installation of an individual septic tank system to serve the property, provided that the property owner meets all requirements set forth by the Bexar County Public Works Department. Detailed information is provided in Attachment I

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Rainfall runoff might flow into an outfall situated at (latitude 29.31089°, longitude -98.38146°) approximately 0.5-mile northwest of the Site.

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Attachment E

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: Click to enter text.

Applicant: Capstone Property Management, LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

Signatory name (typed or printed): Mr. John M. Harlan

Signatory title: Managing Manager

Signature: _____ Date: 7-26-24

(Use blue ink)

Subscribed and Sworn to before me by the said John Harlan

on this 26th day of July, 2024.

My commission expires on the June day of 26th, 2028

_____

Notary Public

[SEAL]

La Crosse

County, ~~Texas~~ Wisconsin

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☒ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Bexar 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):

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

☒ At least one original photograph of the new or expanded treatment unit location

☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☒ At least one photograph of the existing/proposed effluent disposal site

☒ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

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

Not Applicable – not a wastewater treatment plant unit

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

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

☐ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.087

2-Hr Peak Flow (MGD): 0.087

Estimated construction start date: 1983

Estimated waste disposal start date: 1983

D. Current Operating Phase

Provide the startup date of the facility: 1983

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase (This section is not applicable - No treatment is done on the domestic septic waste)

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.**

N/A

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 (This section is not applicable - No treatment is done on the domestic septic waste)

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
N/A	N/A	N/A

C. Process Flow Diagram

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

Attachment: N/A

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

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: 29°18'14"N
- Longitude: 98°22'41"W

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: H

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

A mobile home park, a residential area with 84 single family homes, 1 brick house, 3 apartments and an onsite commercial beauty shop

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 (This section is not applicable – Not a TPDES permit)

Collection System Name	Owner Name	Owner Type	Population Served
N/A	N/A	Choose an item.	N/A
		Choose an item.	
		Choose an item.	
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit. **(Not Applicable – New 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: Click to enter text.

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☐ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☐ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☐ No

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

2. Grit and grease processing

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

Click to enter text.

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.

Click to enter text.

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.

Click to enter text.

E. Stormwater management

1. Applicability

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☐ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 Click to enter text. or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. ***Zero stormwater discharge***

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. ***Request for coverage in individual permit***

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☐ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☐ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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.

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). ***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 (Not Applicable –No treatment facilities)

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Ammonia Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Nitrate Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Sulfate, mg/l	N/A	N/A	N/A	N/A	N/A
Chloride, mg/l	N/A	N/A	N/A	N/A	N/A
Total Phosphorus, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A

Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
E.coli (CFU/100ml) freshwater	N/A	N/A	N/A	N/A	N/A
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities (Not Applicable – Not a Water Treatment Facility)

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Capstone Property Management, LLC

Facility Operator's License Classification and Level: N/A

Facility Operator's License Number: N/A

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

WWTP's Biosolids Management Facility Type **(Not Applicable –Not a wastewater treatment plant)**

A. Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process (Not Applicable –Not a wastewater treatment plant)

Check all that apply. See instructions for guidance.

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

C. Biosolids Management (Not Applicable –Not a wastewater treatment plant)

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

Biosolids Management

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

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Click to enter text.

D. Disposal site

Disposal site name: Second Nature Compost, LLC

TCEQ permit or registration number: 42044

County where disposal site is located: Bexar

E. Transportation method

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

Name of the hauler: Van Delden Wastewater System

Hauler registration number: 20929

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

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: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

Attachment: Click to enter text.

- Copy of the closure plan

  Attachment: Click to enter text.

- Copy of deed recordation for the site

  Attachment: Click to enter text.

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

  Attachment: Click to enter text.

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

  Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

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

☐ Yes ☒ No

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

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☐ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☒ Yes ☐ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Enforcement Case No. 62538; Track Number: 789985; Investigation: 1760648
Alleged Violation: "Failure to obtain authorization to operate one or more OSSFs which treat and dispose of more than 5,000 gallons per day. Specifically, Aztec Estates Mobile Home Park treats and disposes of sewage for more than 80 mobile home units which in total generate an estimated 14,400 gpd."

Implementation Schedule: 60 days from the date of the TCEQ letter dated July 29, 2022.

Current Status: Application to obtain authorization from the TCEQ to operate an OSSF which treats and disposes of more than 5,000 gpd in progress.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Mr. John M. Harlan

Title: Managing Manager

Signature: _____

Date: 7-26-24

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

Aztec Estates Mobile Home Park is a mobile home park that treats and disposes of sewage for 84 single family homes, 1 brick house, 3 apartments and an onsite commercial beauty shop which in total generate an estimated 8,741 gallons per day of wastewater to be treated and disposed onsite. There are two main active sub-surface application areas. Aztec Estates Mobile Home Park received a Notice of Enforcement (NOE) dated May 17th, 2022, with track number: 789985 with an alleged violation which states that Aztec Estates MHP failed to obtain authorization to operate one or more OSSFs which treat and dispose of more than 5,000 gpd. The recommended corrective action requires the Site to obtain authorization from the TCEQ to operate a Class V Injection Well/sub-surface irrigation system which treats and disposes of more than 5,000 gallons per day.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

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

Attachment: N/A

2. *Utility CCN areas*

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

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

☐ Yes ☒ No

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

Attachment: N/A

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

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

☒ Yes ☐ No

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

Attachment: I

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

Attachment: I

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

Attachment: I

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☒ Yes ☐ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application): 0.087 MGD

Average Influent Organic Strength or BOD_5 Concentration in mg/l: 250mg/l

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): 21.75 lbs/day

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

TCEQ design guidelines 30 TAC Chapter 217.32(a)(3)

B. Proposed organic loading **Not applicable - Facility is in operation**

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

Table 1.1(1) – Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: N/A

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

☐ Other: N/A

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features. Not Applicable – Facility was in operation before 2008

Attachment: N/A

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

☒ Yes ☐ No

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

N/A

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

FEMA Flood Map Service Center

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If yes, provide the permit number: N/A

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

B. Wind rose

Attach a wind rose: Attachment J

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: N/A

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 68)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Subsurface application
- ☐ Irrigation
- ☐ Subsurface soils absorption
- ☐ Drip irrigation system
- ☐ Subsurface area drip dispersal system
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☒ Other (describe in detail): Gravel-less Chamber System

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

For existing authorizations, provide Registration Number: N/A

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native grasses, undeveloped land	2.18	8,741	N

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

Table 3.0(2) – Storage and Evaporation Ponds – Not Applicable – No storage or evaporation ponds

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

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

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

Attachment: N/A

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

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

☐ Yes ☒ No

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

N/A

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

FEMA Flood Map Service Center

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

N/A

Section 5. Annual Cropping Plan (Instructions Page 68)

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

- Soils map with crops
- Cool and warm season plant species

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

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

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

- 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
351994	Domestic	Y	open	Proper operation of the land application system.
194513	Domestic	Y	open	Proper operation of the land application system.
343769	Domestic	Y	open	Proper operation of the land application system.
344418	Domestic	Y	open	Proper operation of the land application system.
402557	Irrigation	Y	open	Proper operation of the land application system.
405835	Irrigation	Y	open	Proper operation of the land application system.
436500	Domestic	Y	open	Proper operation of the land application system.
555669	Domestic	Y	open	Proper operation of the land application system.

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
6846401	Water Supply Well	No	capped	Proper operation of the land application system.
57773	Withdrawal of Water	No	Plugged	Maintain cleanliness and recordkeeping. Regularly
58944	Withdrawal of Water	No	Plugged	Maintain cleanliness and recordkeeping. Regularly
68-46-4 John Webb	Domestic	Y	Open	Proper operation of the land application system.
68-46-4T Emil	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Bill Blocker	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 R.C. Schubert	Domestic	N	Cased	Proper operation of the land application system.
68-46-4 Tim Pollock	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 James W. Hale	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 AL Thomas	Municipal	N	Cased	Proper operation of the land application system.
68-46-4 Jackie Armond	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Lesley Campbell	Domestic	N	Cased	Proper operation of the land application system.
68-46-4 Texas Ice House	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 Crane Enterprises	Domestic	Y	Open	Proper operation of the land application system.
68-45-6T Joe Kunze	Domestic	Y	Open	Proper operation of the land application system.
68-45-6C Luther Townsend	Domestic	Y	Open	Proper operation of the land application system.
68-45-6T Joe Kunze	Domestic	Y	Open	Proper operation of the land application system.

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
68-45-6S Donald Couer	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Ester Everhart	Domestic	Y	Open	Proper operation of the land application system.

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

Attachment: K

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: L

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: N/A

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

A. Soil map

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

Attachment: M

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: M

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
Miguel fine sandy loam	80 In	Well-drained	0-60 In	
Floresville fine sandy loam	80 In	Well-drained	0-60 In	

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data **Not Applicable – No existing permit is available**

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

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

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

N/A

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)

☐ Low Pressure Dosing

☒ Other, specify: Combined conventional and proprietary gravity sub-surface application system using perforated plastic/clay pipe and Gravel-less HDPE chambers.

Application area, in acres: 2.18

Area of drainfield, in square feet: 94,915

Application rate, in gal/square foot/day: 0.1 gpd/ft2

Depth to groundwater, in feet: 94

Area of trench, in square feet: 11,673 ft2

Dosing duration per area, in hours: 24

Number of beds: 3 sub-surface application fields

Dosing amount per area, in inches/day: 1.19

Infiltration rate, in inches/hour: Between 4 to 5 inches/hour

Storage volume, in gallons: 36,500

Area of bed(s), in square feet: 94,915

Soil Classification: Sandy Loams

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

Attachment: N

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Janice King

Address: 2105 Donley Drive, Ste 400

City, State, and Zip Code: Austin, Texas, 78758

Phone Number: 512.221.8902

3. Owner/Operator Contact Information

☒ Owner ☒ Operator

Owner/Operator Name: Capstone Property Management, LLC

Contact Name: John M. Harlan

Address: 5900 Balcones Drive Ste 100

City, State, and Zip Code: Austin, Texas 78731

Phone Number: 608.344.1201

4. Facility Contact Information

Facility Name: Aztec Estates Mobile Home Park

Address: 11704 S US Highway 181

City, State, and Zip Code: San Antonio, Texas, 78223

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

Facility Contact Person: John M. Harlan

Phone Number: 608.344.1201

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

Latitude: 29°18'14"N

Longitude: 98°22'41"W

Method of determination (GPS, TOPO, etc.): Google Earth

Attach topographic quadrangle map as attachment A.

6. Well Information

Type of Well Construction, select one:

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

Number of Injection Wells: Click to enter text.

7. Purpose

Detailed Description regarding purpose of Injection System:

Existing lateral fields consist of gravity drainage subsurface application of domestic wastewater through slotted plastic and/or clay pipe, some equipped with additional gravel-less chambers, bedded in pea gravel, and covered with native soils. Currently, the wastewater is conveyed to the fields via gravity flow from a series of septic tanks located throughout the mobile home park.

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

8. Water Well Driller/Installer

Water Well Driller/Installer Name: N/A

City, State, and Zip Code: N/A

Phone Number: N/A

License Number: N/A

Section 2. Proposed Down Hole Design

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

Table 6.0(1) – Down Hole Design Table

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

Section 3. Proposed Trench System, Subsurface Fluid Distribution

System, or Infiltration Gallery

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

System(s) Dimensions: 2.18 acres33

System(s) Construction: Estimated 1980 to 1985

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Coastal Plain Aquifer Systems

2. Receiving Formation Name of Injection Zone: N/A

3. Well/Trench Total Depth: Lateral Field 1 is 2.5 feet deep, Lateral Field 2 is 4.5 feet deep,

4. Surface Elevation: 574 feet

5. Depth to Ground Water: 94 feet

6. Injection Zone Depth: No injection zone done at the Site

7. Injection Zone vertically isolated geologically? ☐ Yes ☒ No

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

Name: N/A

Thickness: N/A

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Attachment I

15. Injection wells within 1/4 mile radius (attach map as Attachment J): No Injection wells located within ¼ mile radius of the Property.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): No monitor wells located within ¼ mile radius of the Property.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

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

Attachment A

TLAP Application Fee

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

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

Transaction Information

Trace Number:	582EA000564504
Date:	08/15/2023 02:39 PM
Payment Method:	CC - Authorization 0000054503
ePay Actor:	ELEANOR EDEOGHO
Actor Email:	eedeogho@braunintertec.com
IP:	4.53.37.234
TCEQ Amount:	$350.00
Texas.gov Price:	$358.13*

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

Payment Contact Information

Name:	MS JANICE KING
Company:	BRAUN INTERTEC CORPORATION
Address:	2105 DONLEY DRIVE STE 400, AUSTIN, TX 78758
Phone:	512-221-8902

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
656833	WW PERMIT - FACILITY WITH FLOW < .05 MGD - NEW AND MAJOR AMENDMENTS		$300.00
656834	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$350.00

ePay Again | Exit ePay

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

Attachment B

Core Data Form

BRAUN INTERTEC

TCEQ Use Only

TCEQ Core Data Form

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

A.1. SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)		
☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)		
☐ Renewal *(Core Data Form should be submitted with the renewal form)*		☐ Other
2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 606026169		**RN 106656671**

A.2. SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	8/1/2024

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0803680655	32075008055	85-2015106	931635478

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

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

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

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

15. Mailing Address:	5900 Balcones Drive Ste 100						
	City	Austin	**State**	TX	**ZIP**	78731	**ZIP + 4**	4298

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	John@HarlanRec.com

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

(608) 344-1201		( ) -

A.3. SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Aztec Estates Mobile Home Park

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	11704 S US Highway 181							
	City	San Antonio	**State**	TX	**ZIP**	78223	**ZIP + 4**	9718
24. County	Bexar							

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

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

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

27. Latitude (N) In Decimal:	29.303889		**28. Longitude (W) In Decimal:**	-98.378056	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	18	14	98	22	41

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
6515		531190	

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

Mobile Home Park

34. Mailing Address:	**11704 S US Highway 181**							
	City	**San Antonio**	**State**	**TX**	**ZIP**	**78223**	**ZIP + 4**	**9718**
35. E-Mail Address:	**John@HarlanRec.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(608) 344-1201		( ) -

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other: Water Quality Non-Permitted
				R13106656671

A.4. SECTION IV: Preparer Information

40. Name:	Janice King		41. Title:	Principal Consultant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(512) 221-8902		( ) -	JaKing@braunintertec.com	

A.5. SECTION V: Authorized Signature

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

Company:	Capstone Property Management, LLC	Job Title:	Managing Manager
Name *(In Print)*:	Mr. John M. Harlan	Phone:	(608) 344- 1201
Signature:	J. M. Harlan	Date:	7-26-24

Attachment C

Plain Language Summary Template

BRAUN
INTERTEC

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

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

Capstone Property Management, LLC (CN 606026169) operates Aztec Estates Mobile Home Park (RN106656671), a mobile home park treats and disposes of sewage for 89 connections consisting of 84 mobile home units, 3 apartments, 1 brick house and 1 commercial onsite beauty shop, which in total generate an estimated 8,741 gallons per day. The facility is located at 11704 South US Highway 181, in San Antonio, Bexar County, Texas 78223. Capstone Property Management, LLC is requesting a permit from Texas Commission on Environmental Quality (TCEQ) for a Domestic Wastewater Discharge Permit which includes Class V Injection Well Authorization/Sub-Surface Irrigation forms for the onsite sanitary wastewater sub-surface irrigation systems at the Aztec Estates MHP to treat and dispose of sewage for 89 residential and commercial connections which in total generate an estimated 8,741 gpd. *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain domestic septic waste. Domestic septic waste will be treated by onsite through sub-surface irrigation to native soils.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/AGUAS PLUVIALES**

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

Capstone Property Management, LLC (CN606026169) opera Aztec Mobile Home Park RN106656671, un El parque de casas móviles trata y elimina las aguas residuales de 89 conexiones que constan de 84 unidades de casas móviles, 3 apartamentos, 1 casa de ladrillos y 1 salón de belleza comercial en el lugar, que en total generan aproximadamente 8,741 galones por día.. La instalación está ubicada en 11704 South US Highway 181, en San Antonio, Condado de Bexar County, Texas 78223. Capstone Property Management, LLC está solicitando un permiso de la Comisión de Calidad Ambiental de Texas (TCEQ) para un permiso de descarga de aguas residuales domésticas que incluye formularios de autorización de pozo de inyección Clase V/irrigación subterránea para los sistemas de irrigación subterránea de aguas residuales sanitarias en el sitio en Aztec. Estates MHP tratará y eliminará aguas residuales para 89 conexiones residenciales y comerciales que en total generan un estimado de 8,741 gpd. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan residuos sépticos domésticos. residuos sépticos domésticos. estará tratado por in situ mediante riego subterráneo a suelos nativos.

Attachment D

Public Involvement Plan Form

BRAUN INTERTEC

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

☒ New Permit or Registration Application

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

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

Section 2. Secondary Screening

☒ Requires public notice,

☒ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

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

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

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

- ☒ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Aztec Estates Mobile Home Park (MHP) is a mobile home park that treats and disposes sewage for mo home units which includes mobile homes, a brick house, two apartments, and an onsite beauty salon generate an estimated 11,147 gallons per day. There are four main active leach fields, of which receiv gallons per day of treatment.

Aztec Estates MHP is planning to obtain authorization from the TCEQ to operate an on-site sewage fa will treat and dispose of more than 5,000 gallons per day of sewage for the mobile home park and ob injection well authorization for the OSSF at the Aztec Estates MHP.

Section 5. Community and Demographic Information

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

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

San Antonio

(City)

Bexar

(County)

(Census Tract)

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

☐ City ☐ County ☒ Census Tract

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

25.5%

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

$54,923

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

English 4.0%, French (except Basque) 1.4%, German 7.0%, Irish 4.3%, Italian 1.8%, Norwegian 0.4%, Polish 1.0%, Scottish 0.8%, and Subsaharan African 0.6%

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

English 58.3%, Spanish 37.9%, Other Indo-European languages 1.4%, Asian and Pacific Islander languages 1.8%, and other languages 0.6%

(e) Languages commonly spoken in area by percentage

English 58.3%, and Spanish 37.9%

(f) Community and/or Stakeholder Groups

N/A

(g) Historic public interest or involvement

N/A

Section 6. Planned Public Outreach Activities

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

☒ Yes ☐ No

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

☒ Yes ☐ No

If Yes, please describe.

Applicant will post public notice at the Elmendorf Community Library

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

Attachment E

Original USGS Topographic Map

BRAUN INTERTEC

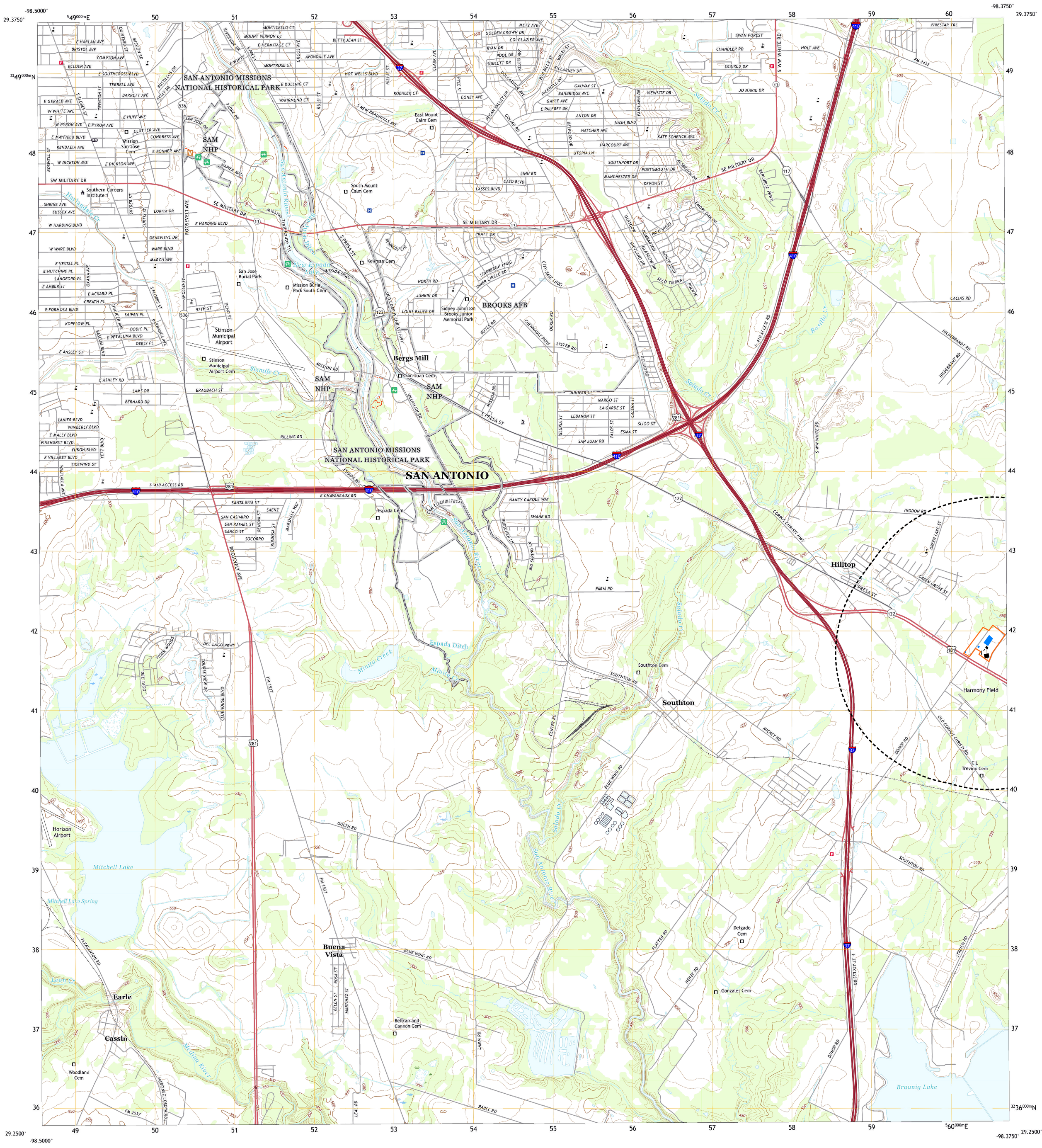
F:\2023\B2303494\GIS\B2303494\B2303494.aprx

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

USGS science for a changing world

The National Map US Topo

SOUTHTON QUADRANGLE
TEXAS - BEXAR COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2021
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
4°6' 73 MILS
0°17' 5 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
Grid Zone Designation
14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Antonio West
2 San Antonio East
3 Martinez
4 Terrell Wells
5 Elmendorf
6 Thelma
7 Losoya
8 Saspamco
ADJOINING QUADRANGLES

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

SOUTHTON, TX
2022

Legend
- Approximate Site Boundary
- One Mile Project Radius
- Active Lateral Field
- Inactive Lateral Field

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10075 Windfern Rd
Houston, TX 77064
713.230.8436
braunintertec.com

Project No: B2303494
Drawing No: AttE_USGS_Topo
Drawn By: JPM
Date Drawn: 9/26/2023
Checked By: JK
Last Modified: 7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic Map

Attachment E-1

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USGS science for a changing world

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

The National Map US Topo

ELMENDORF QUADRANGLE
TEXAS
7.5-MINUTE SERIES

-98.3750° 29.3750° -98.2500° 29.3750°

61 000mE 62 63 64 65 66 67 68 69 70 71 72 572 000mE

3249 000mN 48 47 46 45 44 43 42 41 40 39 38 37 36 3236 000mN

China Grove
Soil Conservation Service Site 3 Reservoir
QUAIL RIDGE
BECK RD
Hondo Cr
RUTH LEE DR
Boldtville
JASPER HOLLOW
OTAY WAY
S FOSTER RD
FM 3432
LODI RD
Calaveras Cr
GARDNER RD
CROW RD
SIGNATURE LN
LARK HAVEN LN
FM 1628
Cover Cem
Soil Conservation Service Site 5 Reservoir
Soil Conservation Service Site 9 Reservoir
COVER RD
KNOWLTON RD
Cantu Cem
JIM DANIEL RD
BILLY SAMUEL DR
MOUNT OLIVE RD
CODKSEY RD
Soil Conservation Service Site 8 Reservoir
Chupaderas Cr
DUBOSE RD
CACIAS RD
BURSHARD RD
Hondo Cr
Calaveras Creek
HILDEBRANDT RD
Hondo Creek
Cross-B Airport
Riley Lake
CASSIANO RD
Delgado Cem
BROWN BLVD
WESTERN TRL
HARRY RD
DAN RD
W LAGUNA RD
LAGUNA RD
Calaveras Lake
Borrego Cem
PALLA PARK BLVD
PARRETT
IDEAL AVE
RICHTER RD
HOMEWOOD LN
STREICH RD
OLD CORPUS CHRISTI RD
DID CORPUS CHRISTI RD
SAN ANTONIO
Midlake Airport
Cementerio Carranza
Juan Moras Cem
Garcia Cem
Carranza Cem
Arciniega Cem
M B Morales Cem
A Casanova Cem
KILOWATT RD
Flores Cem
Braunig Lake
SHADY FALLS RD
BLUE BREEZE
BORREGAS RD
Elmendorf City Cem
Saint Anthonys Cem
Arocha Cem
FM 327
S 36TH AVE
S LOOP 1604 E
SCHULTZ RD
Elmendorf
S FM 1518
A Aguilar San Martin Cem
Orden Caballeros de America Memorial Park
KOSUB LN
ELMENDORF LAVERNIA RD
Hobrecht Family Cem
Sauceda Cem
STUART RD
TOWER RD
BLUEBONNET LN
JOY DR
BONNIEVIEW RD
CIMARRON DR
CINNAMON LN
CREEKSIDE DR
CREEKBEND DR
CROSSCREEK DR
LONG CREEK DR
EAGLE CREEK DR
ADKINS-ELMENDORF RD
BERNHARDT RD
JOLLEY RD
CO RD 375
CO RD 150
FLOWER TRL LP
BEXAR CO
WILSON CO
Pajalta Cr
Cementerio Santa Isabel
San Lorenzo Cem
RODDY RD
JIM TERRILL RD

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

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Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
0°20' 6 MILS
4°2' 72 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Antonio East
2 Martinez
3 Saint Hedwig
4 Southton
5 La Vernia SW
6 Losoya
7 Saspamco
8 Floresville
ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

ELMENDORF, TX
2022

Legend
One Mile Project Radius

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Houston, TX 77064
713.230.8436
braunintertec.com

Project No: B2303494
Drawing No: AttE_USGS_Topo
Drawn By: JPM
Date Drawn: 9/26/2023
Checked By: JK
Last Modified: 7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic Map

Attachment E-2

Attachment F

Affected Landowner Map and Mailing List

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Approximate Site Boundary
Bexar County Parcels
Affected Landowner Parcel
Lateral Field (Disposal Site Boundaries)

USGS NHD Streams
Intermittent Stream
Artificial Path

USGS NHD Water Bodies
Lake/Pond

Sources: Bexar Appraisal District Parcels GIS Layer, USGS National Hydrography Dataset.

Map ID	Property ID(s)	Owner Name	Mailing Address	City	State	Zip
1	1080327	NEMETH PAUL	24719 PLAYER OAKS	SAN ANTONIO	TX	78260-7220
2	158124, 158123, 1206526	MORRIS LEROY E	11704 S US HIGHWAY 181 TRLR 86	SAN ANTONIO	TX	78223-4259
3	158106	CASTELLANO FRANK & JAN	11810 S US HIGHWAY 181	SAN ANTONIO	TX	78223-4278
4	158104	FRAMBS LAURALYNN	11800 S US HIGHWAY 181	SAN ANTONIO	TX	78223-9600
5	157479	LAYKASEK LAURA H &	11520 S US HIGHWAY 181	SAN ANTONIO	TX	78223-4203
6	158647, 157486	HERITAGE GRANITE LLC	24908 TOUTANT BEAUREGARD RD	SAN ANTONIO	TX	78255

N

0 200 400 Feet

1" = 400 Feet

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Drawing Information

Project No: B2303494

Drawing No: AttF_Landowners

Drawn By:	JPM
Date Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

Affected Landowners

Attachment F

Landowner Mailing List

PAUL NEMETH
24719 PLAYER OAKS
SAN ANTONIO TX 78260-7220

LEROY E. MORRIS
11704 S US HIGHWAY 181 TRLR 86
SAN ANTONIO TX 78223-4259

FRANK & JAN CASTELLANO
11810 S US HIGHWAY 181
SAN ANTONIO TX 78223-4278

LAURALYNN FRAMBS
11800 S US HIGHWAY 181
SAN ANTONIO TX 78223-9600

LAURA H. LAYKASEK
11520 S US HIGHWAY 181
SAN ANTONIO TX 78223-4203

HERITAGE GRANITE LLC
24908 TOUTANT BEAUREGARD ROAD SAN ANTONIO TX 78255

Attachment G

Original Photographs

BRAUN INTERTEC

Braun Intertec Corporation
10075 Windfern Road
Houston, Tx 77064

Phone:713.316.0025
Fax: 512.493.9693
Web: braunintertec.com

1. Inside Lateral Field 2 boundary

2. Inside Lateral Field 2 boundary

3. Outside Lateral Field 2 boundary

4. Inside Lateral Field 3 boundary

5. Inside Lateral Field 3 boundary

6. Inside Lateral Field 4 boundary

7. Inside Lateral Field 5 boundary

8. Outside Lateral Field 5 boundary

9. Outside Lateral Field 7 boundary

10. Inside Lateral Field 8 boundary

11. Outside Lateral Field 9 boundary

12. Inside Lateral Field 9 boundary

13. Outside Lateral Field 1 boundary- North

14. Outside Lateral Field 1 boundary - East

15. Outside Lateral Field 3 boundary

16. Outside Lateral Field 3 boundary

17. Inside Lateral Field 1 boundary

18. Inside Lateral Field 1 boundary

19. Inside Lateral Field 1 boundary

20. Inside Lateral Field 1 boundary

- Photo Location/Direction
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8
- Approximate Site Boundary
- Septic Tank
- Other
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Bexar County Parcels

N

0 60 120 Feet

1" = 120 Feet

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10075 Windfern Rd
Houston, TX 77064
713.230.8438
brauninterteC.com

Drawing Information

Project No: B2303494

Drawing No: AttG_PhotoLog

Drawn By:	JPM
Drawn Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

Photo Location Map

Attachment G

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Attachment H

Site Map

BRAUN INTERTEC

- Approximate Site Boundary
- Bexar County Parcels
- Pump
- Septic Tank
- Septic Tank/Pump
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8

TWDB Well Reports

- Withdrawal of Water

N

0 90 180 Feet

1" = 180 Feet

BRAUN INTERTEC
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10075 Windfern Rd
Houston, TX 77064
713.230.8436
braunintertec.com

Drawing Information

Project No: B2303494

Drawing No: AttB-H_SiteMap

Drawn By:	JPM
Date Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

Site Map

Attachment H

F:\2023\B2303494\GIS\B2303494\B2303494.aprx

Attachment I

WWTP Area Map

BRAUN INTERTEC

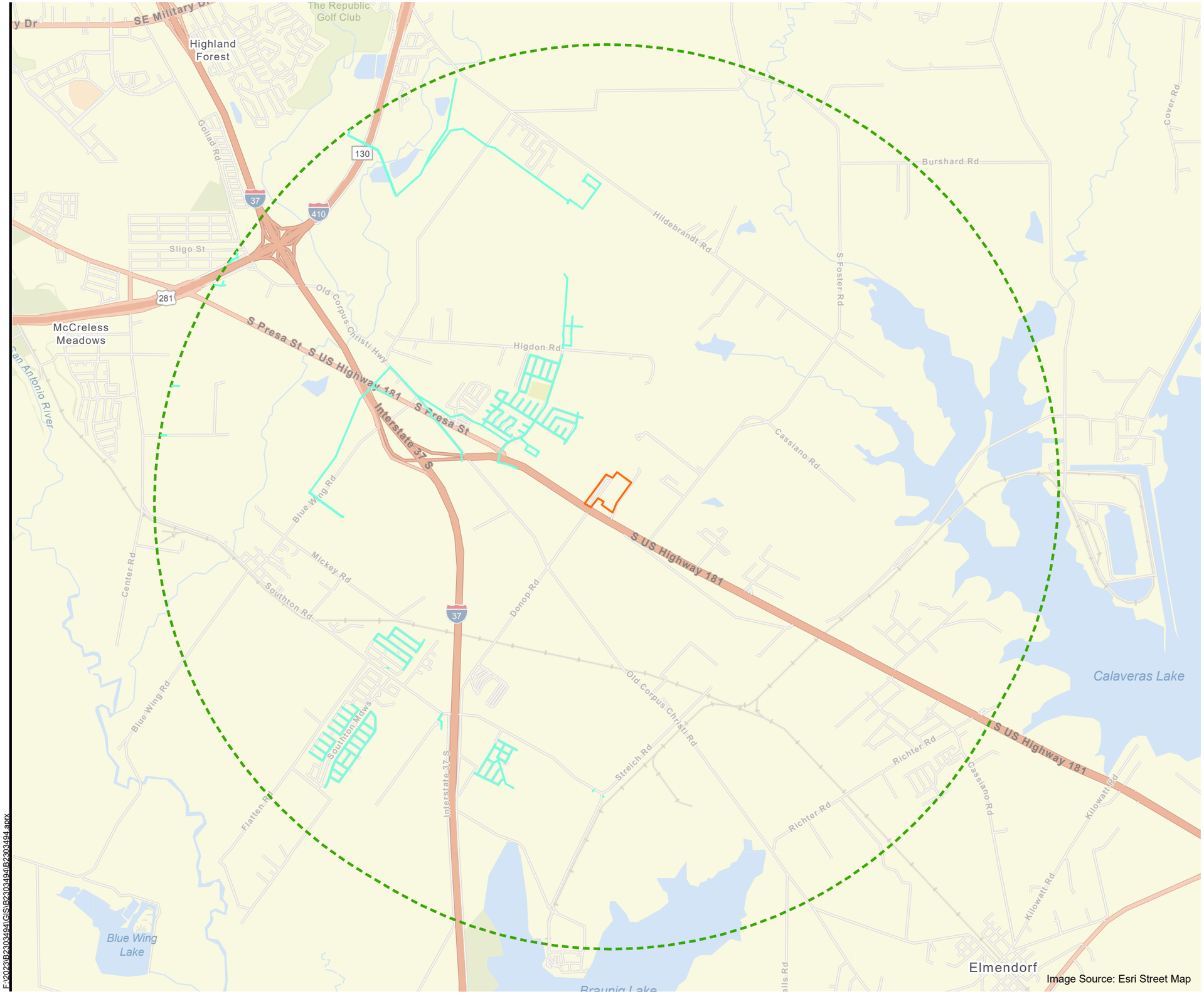

Image Source: Esri Street Map

Approximate Site Boundary
Three Mile Project Radius
San Antonio Water System (SAWS) Sewer Main

Source: San Antonio Water System (SAWS) Utility Locate GIS Viewer.

N

0 1,750 3,500 Feet

1" = 3,500 Feet

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10075 Windfern Rd
Houston, TX 77064
713.230.8436
brauninterteC.com

Drawing Information

Project No: B2303494

Drawing No: Attl_WWTPs

Drawn By:	JPM
Drawn Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

WWTPs Area Map

Attachment I

F:\2023\B2303494\GIS\B2303494\B2303494 aprx

Domestic Technical Report 1.1
Section 1
Attachment S

Permittee **San Antonio Water System**

Water Rights ID Number **ADJ2019**

March 13, 2023

SAN ANTONIO WATER SYSTEM

2800 US HWY 281 N, SAN ANTONIO, TX 78212

To Whom It May Concern:

I represent Capstone Property Management, LLC, dba. Aztec Estates Mobile Home Community located at 11704 US Hwy 181 South in San Antonio. Currently, we are connected to the city water utility, but I am investigating if it is possible and the feasibility of connecting Aztec Estates MHC to the public city sewer utility. Would you please help me in determining the nearest connection point location and the costs involved in connecting to the city sewer utility? I may be reached at 608-344-1201.

RESPECTFULLY,

JOHN HARLAN
608-344-1201
JOHN@HARLANREC.COM

March 14, 2023

Mr. John Harlan

Re: 11704 US Hwy 181 S., San Antonio, Texas 782023Availability of SAWS' Infrastructure

Mr. Harlan:

This is in response to your request for the availability of water and wastewater service to the above referenced property. The location of the tract is not within the City of San Antonio city limits, inside SAWS' Water CCN, and outside SAWS' Sewer CCN.

The San Antonio Water System (SAWS) strives to provide quality, reliable service to its customers at a reasonable cost. Rates are kept low, in part, by having new customers pay for all costs associated with extending service to them. SAWS Board of Trustees Growth Strategy states "we will work to ensure that growth is self-funding". Per SAWS Utility Service Regulations Sections 3.1, 5.1, 6.1, 7.1, and 7.3, new customers are expected to pay for the infrastructure needed to serve their property and pay impact fees to SAWS to pay for general benefit facilities such as overall additional storage tanks, water supplies, pump, or treatment facilities required to serve the new customers. Please note that the water supply impact fees increased on June 1, 2019. It is not SAWS' practice to construct main or service connections to a new customer. Such construction would need to be arranged and paid for by the customer through a professional engineer (if a public main extension is required) and authorized contractor. Costs of surveying, engineering design, materials, construction, and impact fees should be considered before the customer proceeds with construction of their proposed mains or services.

WATER

Water Supply to the tract will be from Pressure Zone 750 which has a static gradient of 750 ft. The approximate maximum elevation of the tract is 580 feet & 74 PSI and the approximate minimum elevation of the tract is 572 feet & 77 PSI. There is an existing 16-inch water main along the northeast side of US Hwy 181 S. Water mains in the vicinity of the property are shown on the attached location map. If commercial uses are proposed, the San Antonio Water System requires a 12-inch or greater sized main to provide adequate fire flow and domestic demand.

Costs and commitment requirements for providing water service may include additional on-site mains and service connection fees. Payment is required of all applicable fees in effect at the time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one water EDU = 290 gallons per day of average daily flow. Current impact fees are shown in the table below.

Water Impact Fee Zone (Pressure Zone)	Flow	System Development	Water Supply	Total Water Impact Fees (per 1 EDU)
PZ 750 Low	$1,188	$855	$2,706	**$4,749**

RECYCLE WATER

In some locations it may be feasible to make use of SAWS recycled water. SAWS has established 73 miles of recycled water pipelines through the city of San Antonio. Recycled water is non-potable and ideal for irrigation, commercial, manufacturing, and industrial uses. Recycled water is cost-effective, environmentally responsible, and not affected by mandatory curtailment during drought conditions. For more information please call (210) 233-3673 or email Pablo.Martinez@saws.org Pablo Martinez at San Antonio Water System.

WASTEWATER

The Tract is situated within SAWS' sewer service area and lies within the Upper Calaveras Creek Watershed. There is an existing 12-inch gravity sewer main crossing US Hwy 181 S. approximately 3,700 LF northwest of the property. Wastewater mains in the vicinity of the property are shown on the attached location map. If the developer chooses to extend the nearest sewer main to the proposed site, he/she must do so at his cost. Connections to mains require the developer to acquire an easement for the main extension if necessary. All tie-ins into the San Antonio Water System's collection system must be based on fieldwork and in conformance with the San Antonio Water System Utility Service Regulations, which became effective on August 9, 2016. Current impact fees are shown in the table below.

Wastewater Impact Fee Area	Collection	Treatment	Total Wastewater Impact Fees (per 1 EDU)
Lower	$902	$651	**$1,553**

The Developer will be responsible for any additional sanitary wastewater main extensions (on-site and/or off-site), right-of-way and easement acquisitions (if needed), private wastewater service laterals required to serve the property, lift stations, and force main systems, lift station upgrades, and lift station maintenance fees (per lift station), along with payment of all applicable fees in effect at time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one wastewater EDU = 200 gallons per day of average daily flow.

This letter does not constitute a commitment to capacity by the SAWS to provide water and/or wastewater service to the subject property. The actual availability of water and/or wastewater service to the property will be dependent upon the site-specific requirements such as site elevation,

pressure requirements, estimated demand and discharge, and the infrastructure requirements as set forth in the USR. The consulting engineer should assess the site-specific requirements in accordance with the USR regulations prior to requesting connection to SAWS' infrastructure. In some cases a Utility Service Agreement may be necessary, for more information please refer to the SAWS Guide to Development https://apps.saws.org/business_center/Developer for a detailed guideline regarding the process for obtaining water/and or wastewater services.

Should additional information be needed please contact me at email: Richard.McWhirter@saws.org

Sincerely,

Richard McWhirter
San Antonio Water System

Attachments

1. Water Utility Map
2. Wastewater Utility Map

June 9, 2023

Ms. Eleanor Edeogho

Re: 11704 US Hwy 181 S., San Antonio, Texas 782023Availability of SAWS' Infrastructure

Ms. Edeogho:

This is in response to your request for the availability of water and wastewater service to the above referenced property. The location of the tract is not within the City of San Antonio city limits, inside SAWS' Water CCN, and outside SAWS' Sewer CCN.

The San Antonio Water System (SAWS) strives to provide quality, reliable service to its customers at a reasonable cost. Rates are kept low, in part, by having new customers pay for all costs associated with extending service to them. SAWS Board of Trustees Growth Strategy states "we will work to ensure that growth is self-funding". Per SAWS Utility Service Regulations Sections 3.1, 5.1, 6.1, 7.1, and 7.3, new customers are expected to pay for the infrastructure needed to serve their property and pay impact fees to SAWS to pay for general benefit facilities such as overall additional storage tanks, water supplies, pump, or treatment facilities required to serve the new customers. Please note that the water supply impact fees increased on June 1, 2019. It is not SAWS' practice to construct main or service connections to a new customer. Such construction would need to be arranged and paid for by the customer through a professional engineer (if a public main extension is required) and authorized contractor. Costs of surveying, engineering design, materials, construction, and impact fees should be considered before the customer proceeds with construction of their proposed mains or services.

WATER

Water Supply to the tract will be from Pressure Zone 750 which has a static gradient of 750 ft. The approximate maximum elevation of the tract is 580 feet & 74 PSI and the approximate minimum elevation of the tract is 572 feet & 77 PSI. There is an existing 16-inch water main along the northeast side of US Hwy 181 S. Water mains in the vicinity of the property are shown on the attached location map. If commercial uses are proposed, the San Antonio Water System requires a 12-inch or greater sized main to provide adequate fire flow and domestic demand.

Costs and commitment requirements for providing water service may include additional on-site mains and service connection fees. Payment is required of all applicable fees in effect at the time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one water EDU = 290 gallons per day of average daily flow. Current impact fees are shown in the table below.

Water Impact Fee Zone (Pressure Zone)	Flow	System Development	Water Supply	Total Water Impact Fees (per 1 EDU)
PZ 750 Low	$1,188	$855	$2,706	**$4,749**

RECYCLE WATER

In some locations it may be feasible to make use of SAWS recycled water. SAWS has established 73 miles of recycled water pipelines through the city of San Antonio. Recycled water is non-potable and ideal for irrigation, commercial, manufacturing, and industrial uses. Recycled water is cost-effective, environmentally responsible, and not affected by mandatory curtailment during drought conditions. For more information please call (210) 233-3673 or email Pablo.Martinez@saws.org Pablo Martinez at San Antonio Water System.

WASTEWATER

The Tract is situated within SAWS' sewer service area and lies within the Upper Calaveras Creek Watershed.

There are no accessible sewer mains within 200 or 300 feet (200 - City, 300 - County) in the vicinity of the property. Since a sewer main extension cannot be established the San Antonio Water System will not object to the installation of an individual septic tank system to serve the property, provided that the property owner meets all requirements set forth by the Bexar County Public Works Department. For additional information and requirements regarding septic tank systems please call (210) 335-6700 and contact Mr. Mike Lara at Bexar County Public Works.

If the developer chooses to extend the nearest sewer main to the proposed site, he/she must do so at his cost. Connections to mains require the developer to acquire an easement for the main extension if necessary. All tie-ins into the San Antonio Water System's collection system must be based on fieldwork and in conformance with the San Antonio Water System Utility Service Regulations, which became effective on December 4, 2012. Current impact fees are shown in the table below.

Wastewater Impact Fee Area	Collection	Treatment	Total Wastewater Impact Fees (per 1 EDU)
Lower	$902	$651	**$1,553**

The Developer will be responsible for any additional sanitary wastewater main extensions (on-site and/or off-site), right-of-way and easement acquisitions (if needed), private wastewater service laterals required to serve the property, lift stations, and force main systems, lift station upgrades, and lift station maintenance fees (per lift station), along with payment of all applicable fees in effect at time of plat recordation or the latest date allowable by law. This includes current impact

fees based on connection point and number of EDUs of capacity requested. Presently, one wastewater EDU = 200 gallons per day of average daily flow.

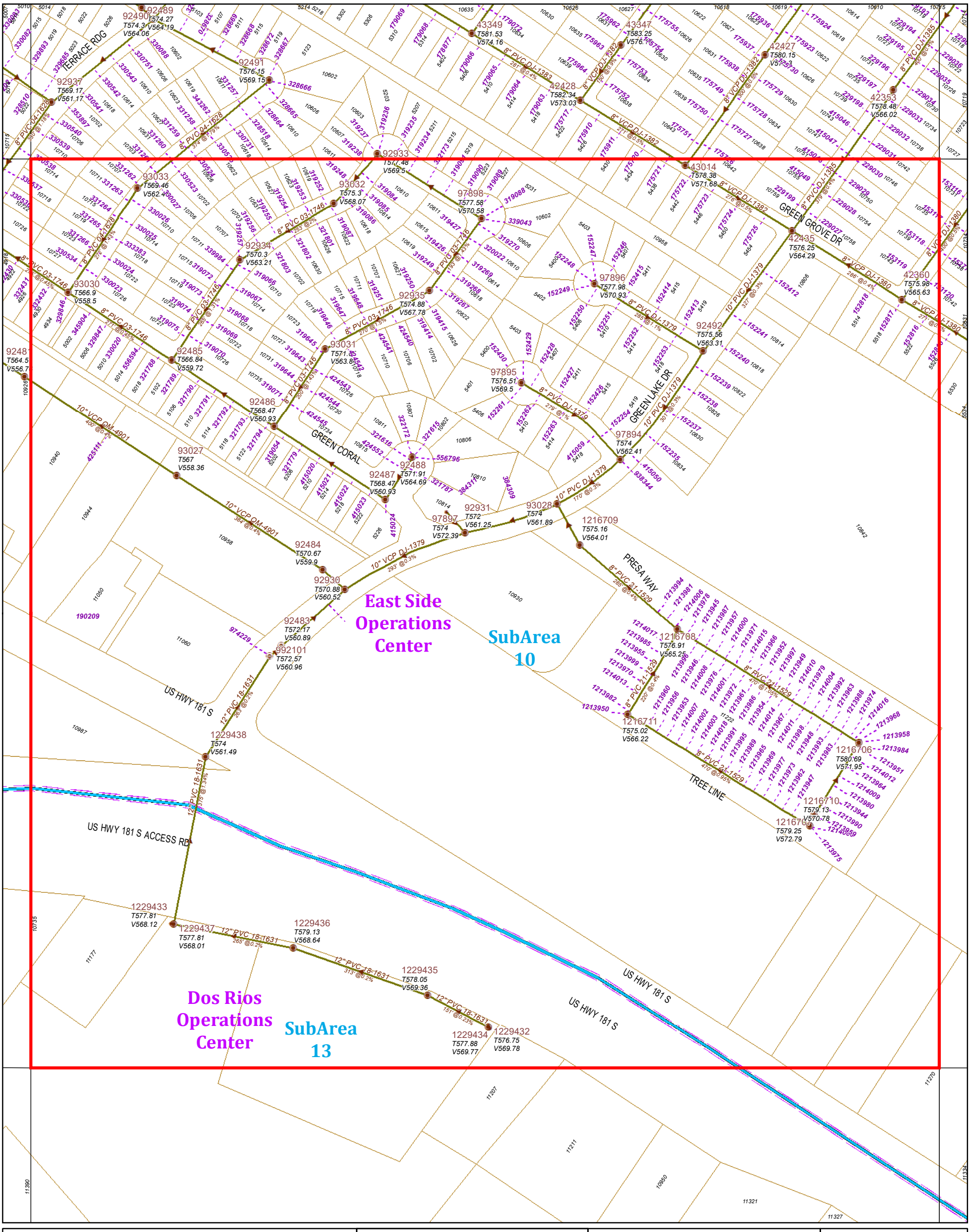
This letter does not constitute a commitment to capacity by the SAWS to provide water and/or wastewater service to the subject property. The actual availability of water and/or wastewater service to the property will be dependent upon the site-specific requirements such as site elevation, pressure requirements, estimated demand and discharge, and the infrastructure requirements as set forth in the USR. The consulting engineer should assess the site-specific requirements in accordance with the USR regulations prior to requesting connection to SAWS' infrastructure. In some cases a Utility Service Agreement may be necessary, for more information please refer to the SAWS Guide to Development https://apps.saws.org/business_center/Developer for a detailed guideline regarding the process for obtaining water/and or wastewater services.

Should additional information be needed please contact me at email: Richard.McWhirter@saws.org

Sincerely,

Richard McWhirter
San Antonio Water System

Attachments
1. Water Utility Map
2. Wastewater Utility Map



BLOW OFF	LIFT STATION	OTHER
CLEAN OUT	MONOLITHIC	STUB OUT
AIR RELEASE	JUNCTION BOX	STANDARD
BREAK NODE	PLUG VALVE	AIR RELEASE
SIPHON INLET	DROP MANHOLE	FLOW METER
SIPHON OUTLET	FLOW METER w\ SMART COVER	SMART COVER
AIR BYPASS	OUTFALL MAIN	PROP. MAINS
SLUDGE	SIPHON MAIN	SEWER LATERALS
FORCE MAIN	GRAVITY MAIN	PVT MAINS

"SAWS GIS Mapping: A wealth of information at your fingertips"

San Antonio Water System

N W E S

0 100 200
Feet

SEWER BLOCK MAP

194536

SAN ANTONIO WATER SYSTEM
INFRASTRUCTURE PLANNING
GIS MAPPING DIVISION

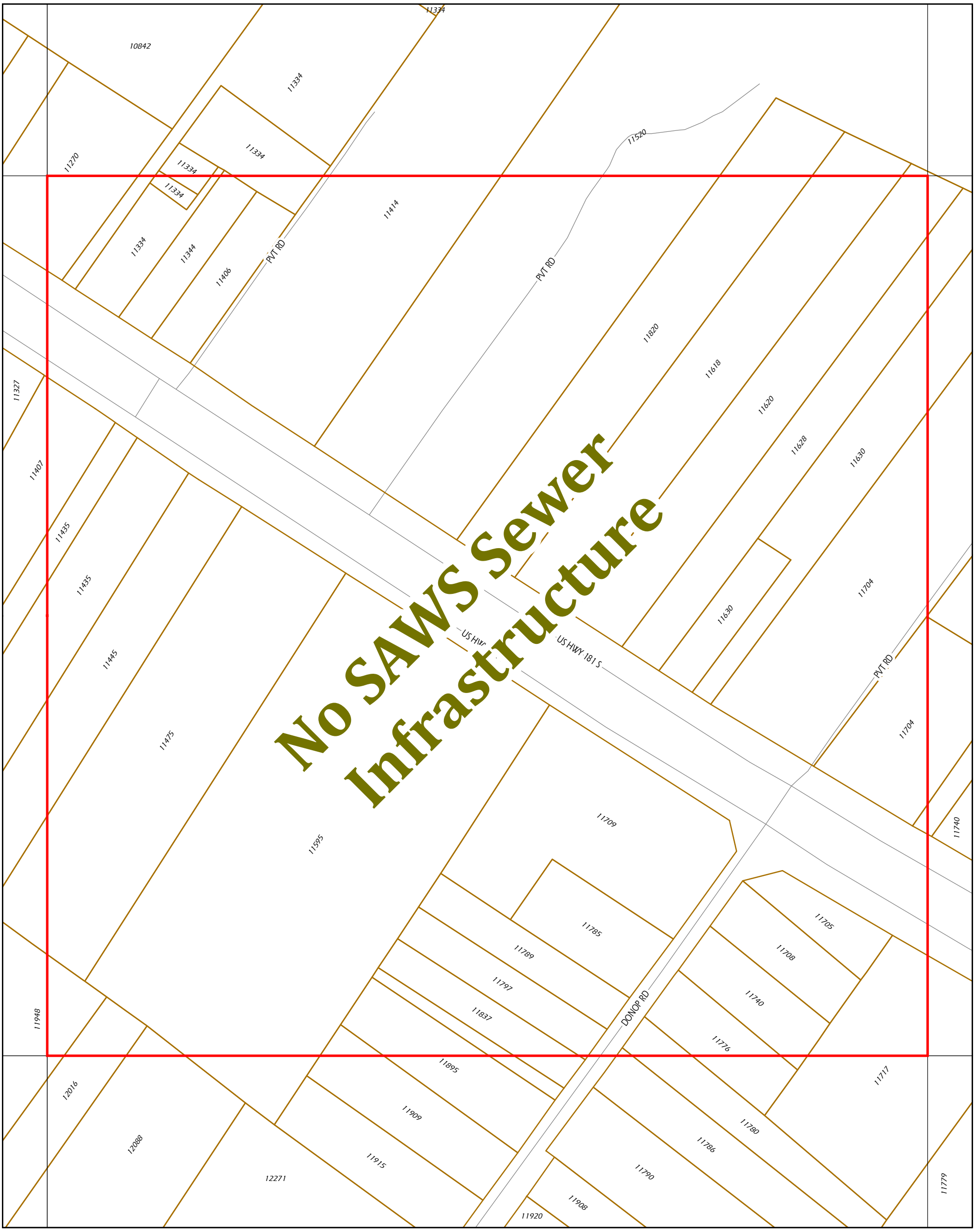
Revised Date: Mar 02, 2023

Disclaimer:

This utility map is for reference only. The information may not represent what actually has been constructed. S.A.W.S explicitly disclaims any representation of the accuracy of the information and assumes no liability for any errors, omissions, or inaccuracies in the map regardless of how caused. Field verification should be done as necessary. S.A.W.S. prohibits the reproduction or sale of this document. This utility map may not under any circumstances, be copied, reproduced or published in any form or media, or transferred to another without written permission of the San Antonio Water System.

192 538	194 538	196 538
192 536	194 536	196 536
192 534	194 534	196 534

SANITARY SEWER



NO ASSETS

"SAWS GIS Mapping: A wealth of information at your fingertips"

San Antonio Water System

N
W E
S

0 100 200
Feet

BLOCK MAP

196534

SAN ANTONIO WATER SYSTEM
INFRASTRUCTURE PLANNING
GIS MAPPING DIVISION

Revised Date: Sep. 15, 2022

Disclaimer:

This utility map is for reference only. The information may not represent what actually has been constructed. S.A.W.S explicitly disclaims any representation of the accuracy of the information and assumes no liability for any errors, omissions, or inaccuracies in the map regardless of how caused. Field verification should be done as necessary. S.A.W.S. prohibits the reproduction or sale of this document. This utility map may not under any circumstances, be copied, reproduced or published in any form or media, or transferred to another without written permission of the San Antonio Water System.

194 536	196 536	198 536
194 534	196 534	198 534
194 532	196 532	198 532

East Side Operations Center

SubArea 10

Dos Rios Operations Center

SubArea 13

WATER BLOCK MAP

194536

SAN ANTONIO WATER SYSTEM
INFRASTRUCTURE PLANNING
GIS MAPPING DIVISION

Revised Date: Mar 02, 2023

Disclaimer:

This utility map is for reference only. The information may not represent what actually has been constructed. S.A.W.S explicitly disclaims any representation of the accuracy of the information and assumes no liability for any errors, omissions, or inaccuracies in the map regardless of how caused. Field verification should be done as necessary. S.A.W.S. prohibits the reproduction or sale of this document. This utility map may not under any circumstances, be copied, reproduced or published in any form or media, or transferred to another without written permission of the San Antonio Water System.

192 538	194 538	196 538
192 536	194 536	196 536
192 534	194 534	196 534

CHECK
BLOW-OFF
Pumps
Wells
BYPASS
AIR RELEASE
Active
SWING
INTERCONNECT
Inactive
DIVISION
PRESSURE REDUCING
Offline
MAINLINE
FIRE HYDRANTS
Plugged
Other
Air Control
Flush Point
Backflow Control
WATER DISTRIBUTION MAIN
FH LATERALS
WATER TRANSMISSION
PROPOSED MAINS
CHILL RETURN MAINS
CHILL MAINS
Service Centers Subareas
SAWS Service Centers

"SAWS GIS Mapping: A wealth of information at your fingertips"

N W E S

0 100 200
Feet

SubArea 10

East Side Operations Center

Dos Rios Operations Center

SubArea 13

294650
294685
294684
294686
294683
294682
294681
302005
294679
294680
FH 319997
FH 319996
FH 319994
FH 319993
FH 319992
FH 1042243
16" AC 5532
8" AC 7059
8" AC 85-2424
12" AC 5672
12" CI 5672
PVT RD
US HWY 181 S
PROP. 8" DI 20-4001
DNO PRD

CHECK
BYPASS
SWING
DIVISION
MAINLINE
BLOW-OFF
AIR RELEASE
INTERCONNECT
PRESSURE REDUCING
FIRE HYDRANTS
Pumps
Wells
Active
Inactive
Offline
Plugged
Other
Air Control
Flush Point
Backflow Control
WATER DISTRIBUTION MAIN
WATER TRANSMISSION
CHILL RETURN MAINS
Service Centers Subareas
FH LATERALS
PROPOSED MAINS
CHILL MAINS
SAWS Service Centers

"SAWS GIS Mapping: A wealth of information at your fingertips"

San Antonio Water System

N
W
E
S

0 100 200
Feet

WATER BLOCK MAP

196534

SAN ANTONIO WATER SYSTEM
INFRASTRUCTURE PLANNING
GIS MAPPING DIVISION

Revised Date: Jul 01, 2022

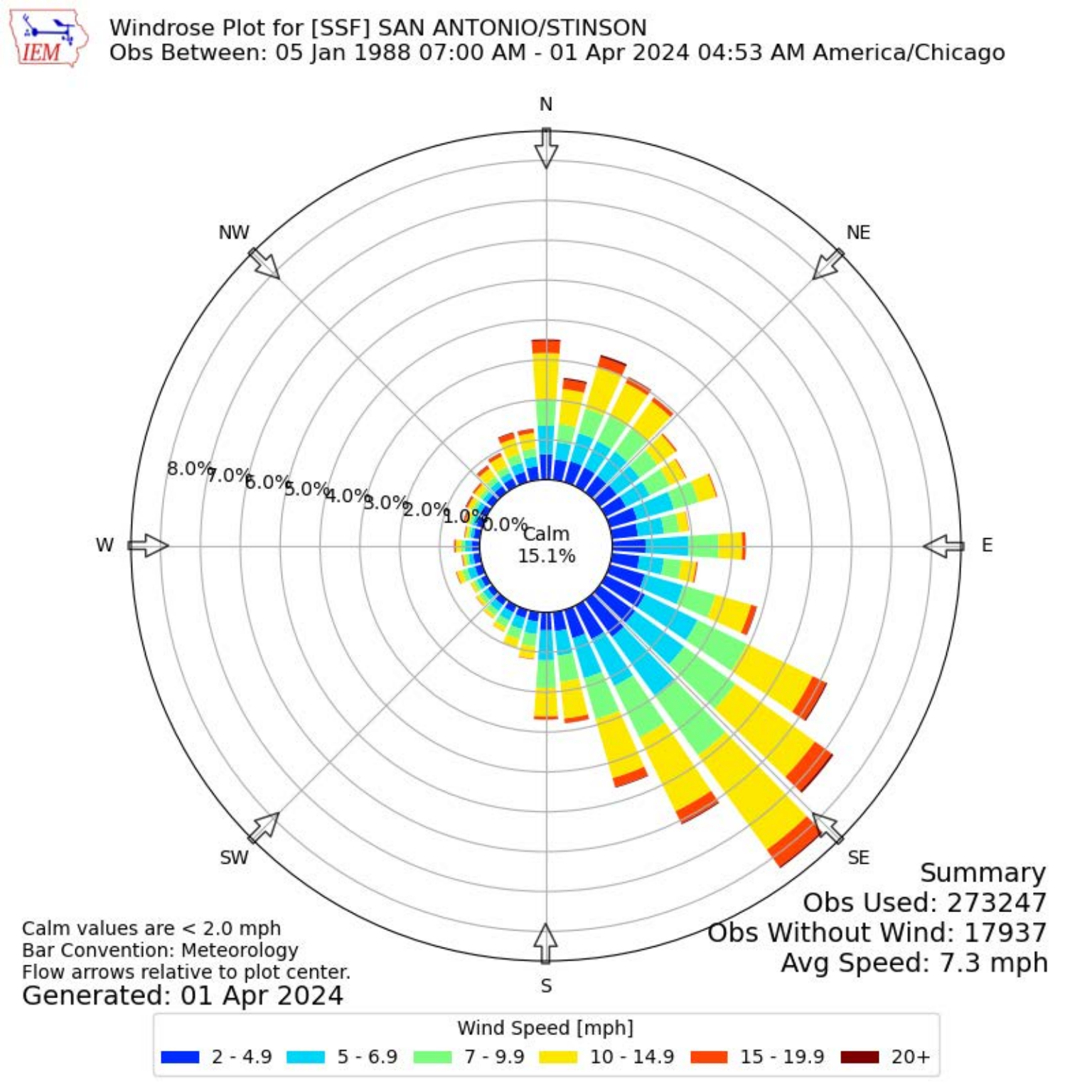
Disclaimer:

194 536	196 536	198 536
194 534	196 534	198 534
194 532	196 532	198 532

Attachment J

Wind Rose

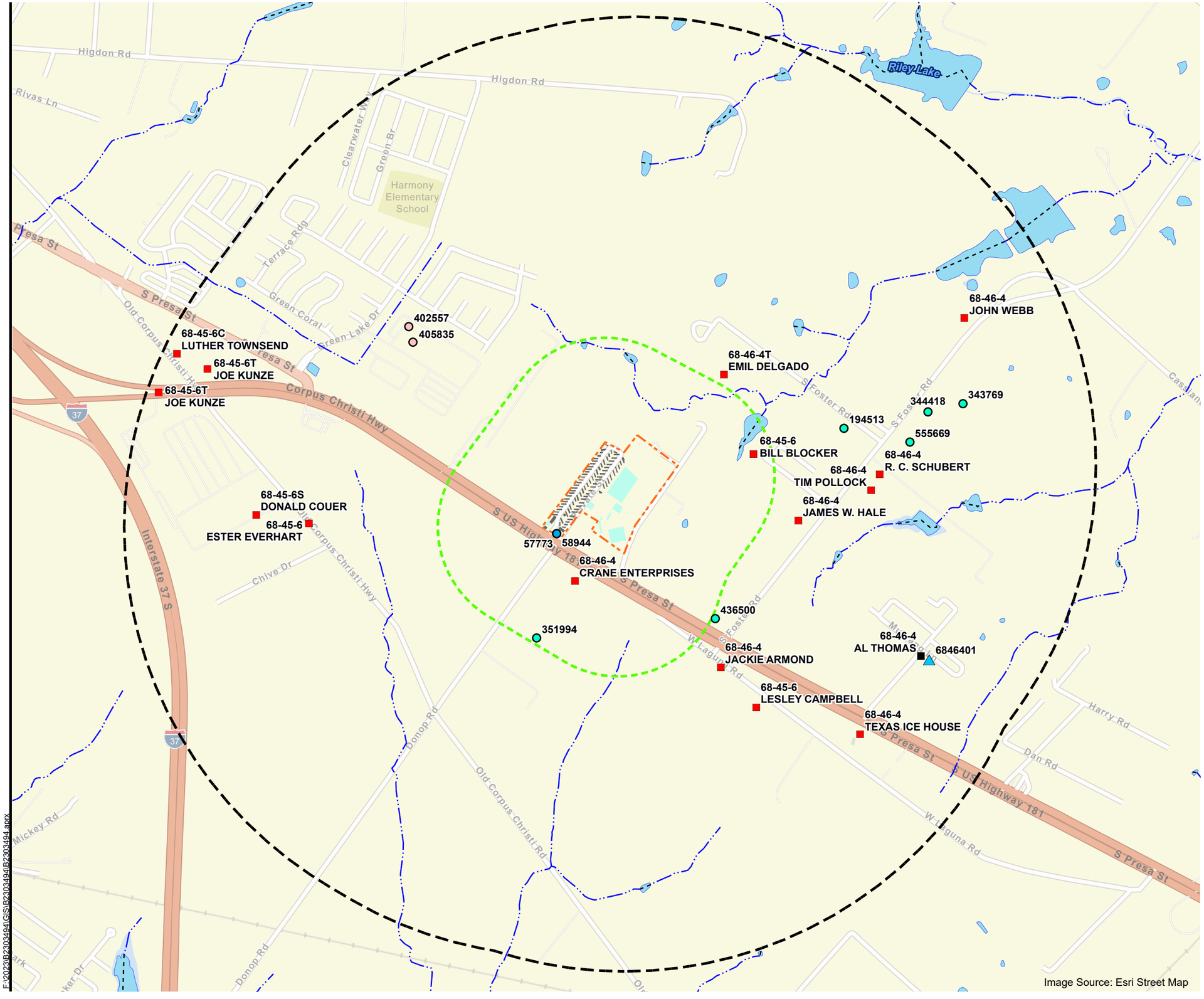
BRAUN INTERTEC


Windrose Plot for [SSF] SAN ANTONIO/STINSON
Obs Between: 05 Jan 1988 07:00 AM - 01 Apr 2024 04:53 AM America/Chicago
N
NE
E
SE
S
SW
W
NW
8.0%
7.0%
6.0%
5.0%
4.0%
3.0%
2.0%
1.0%
0.0%
Calm
15.1%
Summary
Obs Used: 273247
Obs Without Wind: 17937
Avg Speed: 7.3 mph
Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 01 Apr 2024
Wind Speed [mph]
2 - 4.9
5 - 6.9
7 - 9.9
10 - 14.9
15 - 19.9
20+

Attachment K

Well Map and State of Texas Well Report

BRAUN INTERTEC



F:\2023\B2303494\GIS\B2303494\B2303494 aprx

Approximate Site Boundary
0.25 Mile Project Radius
1 Mile Project Radius
Water Body (USGS)
Building
Lateral Field

USGS NHD Streams
Intermittent Stream
Artificial Path

TWDB Groundwater Database
Water Supply Well

TWDB Well Reports
Domestic
Irrigation
Withdrawal of Water - Plugged

TCEQ Well Logs
Domestic
Municipal

Note: no springs, seeps, faults, or sinkholes were identified within one mile of the site.

Sources: USGS National Hydrography Dataset (NHD), TCEQ Source Water Assessment GIS Layers, Texas Water Development Board Groundwater Database, TCEQ Water Well Report Viewer, Texas Water Development Board Well Reports GIS Layer, Geologic Atlas of Texas.

N

0 600 1,200 Feet

1" = 1,200 Feet

BRAUN INTERTEC
The Science You Build On.
10075 Windfern Rd
Houston, TX 77064
713.230.8438
brauninterntec.com

Drawing Information

Project No: B2303494

Drawing No: AttK_WellMap

Drawn By:	JPM
Date Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

Well Map

Attachment K

STATE OF TEXAS WELL REPORT for Tracking #351994

Owner:	**Jesse Benavides**	Owner Well #:	**No Data**
Address:	**11920 Donop Rd San Antonio, TX 78223**	Grid #:	**68-45-6**
Well Location:	**11920 Donop Rd San Antonio, TX 78223**	Latitude:	**29° 17' 57" N**
		Longitude:	**098° 22' 51" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **12/17/2013** Drilling End Date: **1/3/2014**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.875**	**0**	**360**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**226**	**360**	**Gravel**	**1/4**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**3**

Seal Method: **Hand Mixed**

Sealed By: **Moy's**

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

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

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

Method of Verification: **tape**

Surface Completion: **Surface Slab Installed**

Water Level: **106 ft.** below land surface on **No Data** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 60+/- GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Thomas Moy and Sons**

12323 N St Hwy 123
Falls City, TX 78113

Driller Name: **Johnny W Moy** License Number: **2570**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**67**	**shale and sand**
67	**121**	**rock shale and sand**
121	**192**	**shale and rock**
192	**345**	**shale, rock and strk sand**
345	**360**	**rock**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**new**	**plastic**	**blank 0-280**
5	**new**	**plastic**	**screen 280-360 .032**

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 #194513

Owner:	**J.B. King**	Owner Well #:	**No Data**
Address:	**11297 S. Foster Rd. San Antonio, TX 78155**	Grid #:	**68-46-4**
Well Location:	**11297 S. Foster Rd. San Antonio, TX 78155**	Latitude:	**29° 18' 23" N**
		Longitude:	**098° 22' 07" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **12/5/2005** Drilling End Date: **12/6/2005**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
7.875	**0**	**305**
6.75	**0**	**322**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
240	**305**	**Gravel**	**3/16**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**10**	**1 Cement**

Seal Method: **Unknown**

Sealed By: **L. Deharde**

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

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

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

Method of Verification: **Wheel**

Surface Completion: **Surface Sleeve Installed**

Water Level: **86 ft.** below land surface on **2005-12-06** Measurement Method: **Unknown**

Packers: **HolePlug 230' - 240'**

Type of Pump: **Submersible** Pump Depth (ft.): **140**

Well Tests: **Jetted** **Yield: 80 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
320' - 350'	**Bexar**

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: **Deharde Water Well Service**

1075 Schuenemann Rd
Seguin, TX 78155

Driller Name: **Larry Deharde** License Number: **2328**

Comments: **Water Test: 80 gpm @ 190 ft.**
$mew

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**1**	**Sandy Clay**
1	**2**	**Clay**
2	**15**	**Sandy Clay**
15	**30**	**White Clay**
30	**45**	**Sand & Rocks**
45	**55**	**Clay**
55	**62**	**Sand**
62	**150**	**Blue Clay**
150	**170**	**Sand**
170	**200**	**Sandy Clay & Rocks**
200	**235**	**Clay**
235	**265**	**Sand & Sandy Clay**
265	**266**	**Rock**
266	**285**	**Sandy Clay**
285	**287**	**Rock**
287	**305**	**Sand**
305		**Clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**New**	**Plastic**	**0 - 305 Sch40**
4	**New**	**Screen Mfg. .016**	**260 - 300 Sch40**

STATE OF TEXAS WELL REPORT for Tracking #343769

Owner:	**Jaun Hernandez**	Owner Well #:	**1**
Address:	**11080 S.Foster Rd San Antonio, TX 78223**	Grid #:	**68-46-4**
Well Location:	**11080 S.Foster Rd San Antonio, TX 78223**	Latitude:	**29° 18' 26" N**
		Longitude:	**098° 21' 50" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/11/2013** Drilling End Date: **10/16/2013**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9.875**	**0**	**290**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**220**	**290**	**Gravel**	**3/8 WASHED**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**6 PORTLAND**
	210	**220**	**2 SKS HOLE PLUG**

Seal Method: **Hand Mixed**

Sealed By: **TJ&TB DRILLING**

Distance to Property Line (ft.): **54**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **100 ft.** below land surface on **2013-10-17** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **220**

Well Tests: **Jetted** **Yield: 40 GPM after 4 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
224	**wilcox**

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: **TJ & TB DRILLING**

344 County rd 305
Floresville, TX 78114

Driller Name: **John Wilkins** License Number: **54470**

Apprentice Name: **Thomas N Johnson** Apprentice Number: **59264**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**top soil**
5	**8**	**caliche**
8	**24**	**tan clay**
24	**76**	**dark clay**
76	**84**	**hard rock**
84	**159**	**dark brown clay**
159	**168**	**clay sand**
168	**170**	**rock**
170	**180**	**dark clay**
180	**224**	**dark clay light sand streaks**
224	**240**	**sand clay**
240	**245**	**clay**
245	**280**	**sand clay streaks**
280	**290**	**dark clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5" N pvc blank 290-280 sdr 17
5" N mill slot screen 280-240 .020
5" N pvc blank 240-+2 sdr 17

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 #344418

Owner:	**Edwardo Hernandez**	Owner Well #:	**2**
Address:	**11080 S. Foster Rd. San Antonio, TX 78223**	Grid #:	**68-46-4**
Well Location:	**11080 S. Foster Rd. San Antonio, TX 78223**	Latitude:	**29° 18' 25" N**
		Longitude:	**098° 21' 55" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/20/2013** Drilling End Date: **10/23/2013**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9.875	**0**	**300**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
230	**300**	**Gravel**	**3/8 washed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**10**	**8 portland**
220	**230**	**2 hole plug**

Seal Method: **hand mix**

Sealed By: **Driller**

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

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

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

Method of Verification: **TAPE**

Surface Completion: **Surface Slab Installed**

Water Level: **96 ft.** below land surface on **2013-10-24** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **220**

Well Tests: **Jetted** **Yield: 40 GPM after 4 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
230	**WILCOX**

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: **TJ&TB Drilling**

344 CR 305
Floresville, TX 78114

Driller Name: **John Wilkins** License Number: **54470**

Apprentice Name: **Thomas N. Johnson** Apprentice Number: **59264**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**top soil**
3	**7**	**white caliche**
7	**22**	**red clay**
22	**28**	**orange clay**
28	**48**	**orange clay/sand**
48	**83**	**orange clay**
83	**110**	**dark gray clay**
110	**144**	**light gray clay**
144	**156**	**sand lignite**
156	**165**	**light gray clay**
165	**200**	**gray clay/sand**
200	**204**	**rock**
204	**230**	**dark gray clay**
230	**255**	**gray clay/sand**
255	**290**	**sand clay streaks**
290	**300**	**gray clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5" N pvc blank 300-290 sdr17
5" N mill slot 290-250 .020
5" N pvc blank 250-+2 sdr17

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #402557

Owner:	**RAY VARGAS**	Owner Well #:	**1**
Address:	**10575 WEST OFFICE DR HOUSTON, TX 77092**	Grid #:	**68-45-6**
Well Location:	**10842 GREEN LAKE DR SAN ANTONIO, TX**	Latitude:	**29° 18' 36" N**
		Longitude:	**098° 23' 09" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **6/8/2015** Drilling End Date: **6/12/2015**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12.5	**0**	**520**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
180	**520**	**Gravel**	**3/8**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
		3 BENTONITE
0	**155**	**42 CEMENT**
155	**160**	**6 HOLE PLUG**

Seal Method: **Pumped**

Sealed By: **KELTIC DRILLING**

Distance to Property Line (ft.): **200**

Distance to Septic Field or other concentrated contamination (ft.): **58**

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

Method of Verification: **EST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **160 ft.** below land surface on **2015-06-12** Measurement Method: **Unknown**

Packers: **No Data**

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

Well Tests: **Jetted** **Yield: 20 GPM with 120 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
190	**NATURAL**

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: **KELTIC DRILLING LLC**

PO BOX 839
VON ORMY, TX 78073

Driller Name: **GERHARDT RUPPRECHT** License Number: **58631**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**TOPSOIL**
2	**5**	**CALICHE**
5	**78**	**GRAY CLAY & ROCK**
78	**89**	**SAND GRAY**
89	**108**	**GRAY CLAY**
108	**139**	**CLAY & SAND**
139	**191**	**ROCK**
165	**182**	**GRAY CLAY**
190	**240**	**GRAY CLAY & SAND**
191	**193**	**GRAY SAND**
193	**165**	**CLAY & SAND GRAY**
240	**258**	**GRAY CLAY & ROCK**
258	**275**	**GRAY CLAY & SAND**
275	**282**	**GRAY CLAY**
282	**285**	**GRAY ROCK**
285	**361**	**GRAY CLAY**
361	**364**	**GRAY ROCK**
364	**402**	**GRAY CLAY SOME SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5" NEW SDR 17 0'-300' CASING
5" NEW SDR 17 SCREEN MFG. 300'-360' .020 SCREEN
5" NEW SDR 17 360'-400' CASING
5" NEW SDR 17 SCREEN MFG. 400'-420' .032 SCREEN
5" NEW SDR 17 420'-460' CASING
5" NEW SCREEN MFG. 460'-480' SCREEN .020
5" NEW SDR 17 480'-500' CASING

402	**403**	**GRAY ROCK**
403	**452**	**GRAY CLAY**
452	**454**	**GRAY ROCK**
454	**471**	**GRAY CLAY W/SOME SAND**
471	**520**	**GRAY CLAY**

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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 #405835

Owner:	**GDRM 181 RLP**	Owner Well #:	**No Data**
Address:	**10575 WEST OFFICE DR HOUSTON, TX 77042**	Grid #:	**68-45-6**
Well Location:	**10842 GREEN LAKE DR SAN ANTONIO, TX**	Latitude:	**29° 18' 34.06" N**
		Longitude:	**098° 23' 08.42" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/18/2015** Drilling End Date: **8/23/2015**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12.5	**0**	**520**
6.75	**520**	**694**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
50	**520**	**Gravel**	**3/8**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**50**	**Cement & Bentonite 31**
50	**55**	**3/8 Hole Plug**

Seal Method: **Pumped**

Sealed By: **Driller**

Distance to Property Line (ft.): **300**

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

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

Method of Verification: **MEASURED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **85 ft.** below land surface on **2015-08-23**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Jetted** **Yield: 65 GPM with 80 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
290	**NORMAL**

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: **KELTIC DRILLING LLC**

PO BOX 839
VON ORMY, TX 78073

Driller Name: **Gerhard Rupprecht** License Number: **58631**

Comments: **No Data**

Report Amended on 10/6/2015 by Request #14308

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**TOPSOIL**
2	**15**	**YELLOW CLAY**
15	**35**	**WHITE CLAY**
35	**42**	**YELLOW DRY CLAY**
42	**65**	**GRAY CLAY**
65	**73**	**YELLOW SAND**
73	**110**	**GRAY CLAY**
110	**113**	**ROCK**
113	**155**	**GRAY CLAY**
155	**157**	**ROCK**
157	**165**	**GRAY CLAY**
165	**170**	**GRAY SAND**
170	**171**	**ROCK**
171	**200**	**GRAY CLAY**
200	**202**	**ROCK**
202	**215**	**GRAY CLAY**
215	**240**	**GRAY SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**sdr 17**	**New Plastic (PVC)**	**SDR 17**	**0**	**220**
6	**Screen**	**New Steel**	**0.020**	**220**	**240**
5	**Blank**	**New Plastic (PVC)**		**240**	**300**
5	**Screen**	**New Plastic (PVC)**	**0.020**	**300**	**320**
5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**320**	**420**
5	**Screen**	**New Plastic (PVC)**	**0.020**	**420**	**440**
5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**440**	**500**

240	248	GRAY CLAY
248	249	ROCK
249	290	GRAY CLAY
290	292	ROCK
292	312	GRAY CLAY
312	325	GRAY SAND & CLAY
325	358	GRAY CLAY
358	360	ROCK
360	382	GRAY CLAY
382	390	GRAY CLAY & SAND
390	412	GRAY CLAY
412	415	GRAY ROCK
415	432	GRAY CLAY
432	435	GRAY ROCK
435	445	GRAY CLAY & SAND
445	462	GRAY CLAY
462	463	ROCK
463	475	GRAY CLAY
475	482	GRAY CLAY & SAND
482	510	GRAY CLAY
510	513	ROCK
513	562	GRAY CLAY
562	564	ROCK
564	680	GRAY CLAY
680	681	ROCK
681	690	GRAY HARD CLAY
690	694	MIDWAY CLAY

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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 #436500

Owner:	**Jesus Fernandez**	Owner Well #:	**1**
Address:	**431 Ware San Antonio, TX 78221**	Grid #:	**68-46-4**
Well Location:	**N. W. Corner of Hwy 181 and Foster Rd. San Antonio, TX**	Latitude:	**29° 17' 59.3" N**
		Longitude:	**098° 22' 25.5" W**
Well County:	**Bexar**	Elevation:	**No Data**

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

Drilling Start Date: **10/18/2016** Drilling End Date: **10/20/2016**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9.875**	**0**	**327**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**277**	**317**	**Gravel**	**3/8**

Annular Seal Data: **No Data**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Variance Number: **N/A**

Distance to Property Line (ft.): **500**

Distance to Septic Field or other concentrated contamination (ft.): **1,000**

Distance to Septic Tank (ft.): **1,000**

Method of Verification: **Tape Mesure**

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

Water Level: **102 ft.** below land surface, and **0 GPM** artesian flow on **2016-10-21** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 30 GPM after 1.5 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
277 - 317	**Good Drinking Water**

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: **TJ & TB Drilling**

PO Box 1009
Floresville, TX 78114

Driller Name: **Raymundo V. Garcia** License Number: **4365**

Apprentice Name: **T. Johnson**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**327**	**0'to 2' red soil, 2' to 24' red and grey clay, 24' to 44' yellow clay, 44' to 64' yellow clay and sandstone, 64' to 84' grey clay, 84' to 164' grey clay,sand and lignite, 164' to 204' grey clay,lignite and trace of sand, 204' to 304' grey clay lignite, sand and rock stks, 304' to 324' soft grey clay,sand and rock, 324' to 327' Rock.**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Screen**	**New Plastic (PVC)**	**SDR17 0.020**	**277**	**317**

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 #555669

Owner:	**Edward Fernandez**	Owner Well #:	**3**
Address:	**11415 Bluewing Rd San Antonio, TX 78223**	Grid #:	**68-46-4**
Well Location:	**11080 South Foster Rd San Antonio, TX 78223**	Latitude:	**29° 18' 21.24" N**
		Longitude:	**098° 21' 57.6" W**
Well County:	**Bexar**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/23/2020** Drilling End Date: **10/1/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**320**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
230	**320**	**Gravel**	**1/4**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**10**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **1/2 Mile**

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

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

Method of Verification: **Odom**

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

Water Level: **112 ft.** below land surface on **2020-10-01** Measurement Method: **Weighted Line**

Packers: **Burlap at 12 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **280**

Well Tests: **Jetted** **Yield: 30 GPM with 60 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
240 - 320	**Fresh**

Chemical Analysis Made: **No**

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

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

Company Information: **Thomas Moy and Sons Water Well Drilling Inc.**

12323 N. St. Hwy. 123
Falls City, TX 78113

Driller Name: **Joshua J Moy** License Number: **59531**

Apprentice Name: **Luis Hernandez** Apprentice Number: **58984**

Comments: **Bentonite Hole Plug poured on top of gravel**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**154**	**Shale and Rocks**
154	**180**	**Sand and Shale**
180	**215**	**Shale**
215	**235**	**Sand**
235	**241**	**Shale**
241	**315**	**Sand and Few Streaks of Shale**
315	**320**	**Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-2**	**260**
5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.032**	**260**	**320**

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

STATE OF TEXAS PLUGGING REPORT for Tracking #57773

Owner:	**Aztec Estates Mobile Home Park**	Owner Well #:	**1**
Address:	**11704 Hwy 181 South San Antonio, TX 78223**	Grid #:	**68-45-6**
Well Location:	**11704 Hwy. 181 South San Antonio, TX 78223**	Latitude:	**29° 18' 10" N**
		Longitude:	**098° 22' 48" W**
Well County:	**Bexar**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **Aztec Estates Mobile Home Park** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10.75**		**207**

Plugging Information

Date Plugged: **8/18/2009** Plugger: **George Jendrzey**

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

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
8	**0**	**207**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**100**	**70 sacks Class "A" Cement**
100	**207**	**35 C.F. 3/8 Wash Gravel**

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: **Alsay Incorporated**

3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **George Jendrzey** License Number: **4120**

Comments: **207 ft. to 100 ft. with 35 Cubic Ft. of 3/8 wash gravel.**
100 ft. to surface with 70 sacks of Class "A" cement.

STATE OF TEXAS PLUGGING REPORT for Tracking #58944

Owner:	**Hammy, Edel**	Owner Well #:	**No Data**
Address:	**14826 Watson Rd. Von Olmy, TX 78073**	Grid #:	**68-45-6**
Well Location:	**14826 Watson Rd. Von Ormy, TX 78073**	Latitude:	**29° 18' 10" N**
		Longitude:	**098° 22' 48" W**
Well County:	**Bexar**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

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**		**156**

Plugging Information

Date Plugged: **8/31/2009** Plugger: **Judson Price**

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

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
4	**151**	**156**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**100**	**Cement**
100	**156**	**Gravel**

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: **JR Water Well Service**

12148 Madrona
San Antonio, TX 78245

Driller Name: **Judson Price** License Number: **54897**

Comments: **Alamo Cement 9 1/2 bags.**
^EO

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER Crane Enterprises (3) (Name) ADDRESS 11717 Hwy 181 So. (Street or RFD) San Antonio (City) 7822 (State) (Zip)

2) LOCATION OF WELL: County Bexar, 3 miles in S (NE, SW, etc.) direction from L00p 410 181 So (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ SEE ATTACHED MAP 68-52-4

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

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started _____ 19__ Completed 4/1 19 93

DIAMETER OF HOLE	Dia. (in.)	From (ft.)	To (ft.)
	6 3/4	Surface	300

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	4	Black Surface soil
4	9	Yellow Clay
9	14	Grey Clay
14	30	Surface sand w/Black Speck
30	40	Sandy yellow Clay
40	65	Shale
65	234	Black Shale
234	235	Sand Stone
235	301	Black Shale & water sand

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PCV	18" above		
				300	40

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 16 ft. to 0 ft. No. of Sacks Used 20
ft. to ft. No. of Sacks Used
Method used Hand mixed
Cemented by Hammett Water System

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SEP 02 1993
TEXAS WATER COMMISSION

13) TYPE PUMP: ☐ Turbine ☒ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 220 ft.

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: 40 ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: _____ gpm with 0 ft. drawdown after 5 hrs.

11) WATER LEVEL:
Static level 136 ft. below land surface Date 4/1/93
Artesian flow _____ gpm. Date _____

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

12) PACKERS: Type Depth

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

COMPANY NAME Hammett Water System (Type or print) WELL DRILLER'S LICENSE NO. 1171

ADDRESS 12359 S. Hwy 181 #4 (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

(Signed) Victor Hammett (Licensed Well Driller) (Signed) 8/26/93 (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 68-46-4

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

Send original copy by certified mail to: TNRCC, P.O. Box [redacted]7, Austin, TX 78711-3087 — Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER Bill Blocker (Name) ADDRESS 11489 S Foster Rd. San Antonio, Tx 78223 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: County Bexar 11489 S.Foster Rd (Street, RFD or other) San Antonio, TX 78223 (City) (State) (Zip) GRID # 68-45-6

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

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

5)

6) WELL LOG:
Date Drilling: Started 12/18/95 Completed 1/15/96

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	297

7) DRILLING METHOD (Check): [ ] Driven [ ] Air Rotary [X] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface soil
2	18	Red clay
18	28	Yellow sand
28	30	Rock
30	170	Brokkn blue sand & shale
170	172	Rock
172	210	Hard blue shale
210	295	Broken blue sand and shale
295	297	Rock

(Use reverse side if necessary)

8) Borehole Completion (Check): [ ] Open Hole [ ] Straight Wall [ ] Underreamed [X] Gravel Packed [ ] Other
If Gravel Packed give interval ... from 100 ft. to 297 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC	18" above	297	40
4	N	Perf.	197	297	40

9) CEMENTING DATA [Rule 338.44(1)]
Cemented from 0 ft. to 14 ft. No. of sacks used 14
ft. to ft. No. of sacks used
Method used Hand Mixed
Cemented by Hammett Water System
Distance to septic system field lines or other concentrated contamination ft.
Method of verification of above distance

13) TYPE PUMP:
[ ] Turbine [ ] Jet [X] Submersible [ ] Cylinder
[ ] Other
Depth to pump bowls, cylinder, jet, etc., 220 ft.

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

14) WELL TESTS:
Type test: [ ] Pump [X] Bailer [ ] Jetted [ ] Estimated
Yield: 20 gpm with 0 ft. drawdown after 3 hrs.

11) WATER LEVEL:
Static level 120 ft. below land surface Date 1/15/96
Artesian flow gpm. Date

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

12) PACKERS:

Type	Depth
Canvas	14 Ft

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

COMPANY NAME Hammett Water System (Type or print) WELL DRILLER'S LICENSE NO. 1171

ADDRESS 12359 So Hwy 181 #4 (Street or RFD) San Antonio, Tx 78224 (City) (State) (Zip)

(Signed) Victor Hammett (Licensed Well Driller)

(Signed) (Registered Driller Trainee)

RECEIVED JUN 1997 TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94) TNRCC COPY

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4T
Located on map yes
Received: C.F.S.

1) OWNER Emil Delgado (Name) Address San Antonio (Street or RFD) (City) Texas (State) (Zip)

2) LOCATION OF WELL: County Bexar 2 miles in North (N.E., S.W., etc.) direction from Foster Rd on 181 (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 5/23/83

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	278

From (ft.)	To (ft.)	Description and color of formation material
0	3	Surface
3	24	Clay
24	26	Rock
26	70	Clay
70	75	Sandy
75	115	Clay
115	116	Rock
116	152	Shale
152	158	Sand
158	165	Shale
165	170	Sandy
170	175	Shale
175	176	Rock
176	185	Shale
185	190	Sand
190	200	Shale
200	203	Sandy
203	210	Shale
210	211	Rock
211	228	Shale
228	229	Rock
229	232	Shale
232	233	Rock
233	245	Shale
245	250	Sand
250	252	Rock
252	255	Sand
255	256	Rock

256-278- Sandy TD

(Use reverse side if necessary)

RECEIVED
AUG 26 1983
DEPT. OF WATER RESOURCES

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 120 ft. to 278 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	N	Plastic	0	278	250
5	N	Screen	238	278	250

CEMENTING DATA
Cemented from 0 ft. to 120 ft.
Method used Grouting
Cemented by Emilo Delgado (Company or Individual)

9) WATER LEVEL:
Static level 75 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 35 gpm with _____ ft. drawdown after _____ hrs.

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

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

NAME Edward R. Jarzomber (Type or Print) Water Well Drillers Registration No. 686

ADDRESS 921 4th St (Street or RFD) Floresville (City) Tx (State) 78114 (Zip)

(Signed) Edward R. Jarzomber (Water Well Driller) J-B Drilling (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER James W. Hale (Name) Address 11593 So. Foster Rd. San Antonio, Texas 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar, 4 miles in SW (N.E., S.W., etc.) direction from HillTop (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. ____ Block No. ____ Township ____
Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines Hwy 181 and Foster Rd.
☐ See attached map. #2. on 68-45-6

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other

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

6) WELL LOG:
Date drilled 3/10/90

Dia. (in.)	From (ft.)	To (ft.)
6¾	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
o	1	Surface soil
1	40	Red and yellow shale
40	116	Broken blue shale and sand
116	142	Black Sand
142	145	Rock
145	204	Broken sand a nd shale
204	230	Grey Sand
230	265	Sand and rock
265	269	Shale
269	298	Grey Sand
298	300	Blue shale

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other
If Gravel Packed give interval . . . from 220 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing	Gage Screen
4	N	PVC	18' Above	300		40

CEMENTING DATA
Cemented from 0 ft. to 18 ft.
Method used Hand Mixed
Cemented by Hammett Water System (Company or Individual)

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OCT 3 1990
TEXAS WATER COMMISSION

9) WATER LEVEL:
Static level 102 ft. below land surface Date 3/10/90
Artesian flow ____ gpm. Date ____

10) PACKERS: Type Depth

11) TYPE PUMP: None
☐ Turbin ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other
Depth to pump bowls, cylinder, jet, etc., ____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 100 gpm with 0 ft. drawdown after 4 hrs.

(Use reverse side if necessary)

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

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

NAME Victor Hammett (Type or Print) Water Well Drillers Registration No. 1171

ADDRESS 12359 S Hwy. 181 #4 (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

(Signed) Victor Hammett (Water Well Driller) Hammett Water System (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.
TDWR-0392

Please use black ink.
Send original copy by certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Jackie Osmond (Name) Address 270 Laguna Rd. San Antonio Tex 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 8 miles in South E (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

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

6) WELL LOG:
Date Drilling: Started 9-3 19 86 Completed 9-6 19 86

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7⅞	Surface	300

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	4	Surface
4	13	caliche
13	28	yellow clay
28	52	sand
52	53	Rock
53	70	shale
70	123	sand
123	177	shale w/ sand stks
177	201	sand
201	215	shale
215	229	sand
329	257	shale
257	300	sand good

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfr., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	Plastic Sch 40	0	300	
		40' Slotted	260	300	

9) CEMENTING DATA (Rule 319.44(b))
Cemented from 230 ft. to 250 ft. No. of Sacks Used 8
ft. to ft. No. of Sacks Used
Method used Pumped
Cemented by Ace Pump Co.

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 92 ft. below land surface Date 9-6-86
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Halliburton Basket Depth 250

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 50 gpm with 30 ft. drawdown after 4½ hrs.

RECEIVED
SEP 14 1987
TEXAS WATER COMMISSION

(Use reverse side if necessary)

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

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Ace Pump Co (Type or Print) Water Well Driller's License No. 1764
ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)
(Signed) Fernando E Galindo (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 68-46-4
Located on map _____

WWD-012 (Rev.01-28-87) TEXAS WATER COMMISSION COPY

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

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) **OWNER** Lesley Campbell (Name) **ADDRESS** 6020 W. Laguna (Street or RFD) San Antonio (City) Tx (State) 78223 (Zip)

2) **ADDRESS OF WELL:** County Bexar 6020 W Laguna (Street, RFD or other) S.A. (City) Tx (State) 78223 (Zip) **GRID #** 68 45-6

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

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

5)

6) **WELL LOG:** Date Drilling: Started 1-9 19 97 Completed 1-17 19 97

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6-7/8	Surface	174

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

From (ft.)	To (ft.)	Description and color of formation material
0	5	Black Surface Soil
5	17	Caliche
17	92	Yellow Sand + Shale
92	174	Broken Blue Shale + Sand

(Use reverse side if necessary)

8) **Borehole Completion (Check):** ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval ... from 173 ft. to 93 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC	18" above		
				174	40
		Perf. 80'			

9) **CEMENTING DATA** [Rule 338.44(1)]
Cemented from 0 ft. to 10 ft. No. of sacks used 8
ft. to ft. No. of sacks used
Method used Hand Mixed
Cemented by Hammett Water System
Distance to septic system field lines or other concentrated contamination 150 ft.
Method of verification of above distance Measured Tape

13) **TYPE PUMP:** ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 140 ft.

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

14) **WELL TESTS:** Type test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.

11) **WATER LEVEL:** Static level 88 ft. below land surface Date 1-17-97
Artesian flow ____ gpm. Date

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

12) **PACKERS:** Type Depth

FILE ID SEC # DESC CD
Cement SEP 05 1997 WG

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

COMPANY NAME Hammett Water System (Type or print) **WELL DRILLER'S LICENSE NO.** WPL 1171

ADDRESS 12359 So. Hwy 181 #4 (Street or RFD) San Antonio (City) TX (State) 78223 (Zip)

(Signed) Victor Hammett (Licensed Well Driller) **(Signed)** ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94) TNRCC COPY

Send original copy by certified return receipt requ[illegible]mail to: TDLR, P.O. Box 12157, Austin, TX 78711

ATTENTION OWNER: *Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)*

State of Texas
WELL REPORT

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
512-463-7880

1) OWNER Tim Pollock (Name) ADDRESS 11392 Box #2 S Foster Rd. San Antonio TX 78223 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL'S LOCATION: County Bexar Same As Above (Street, RFD or other) (City) (State) (Zip) Long. Lat. Grid # 68-46-4

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

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

5)

6) WELL LOG:
Date Drilling:
Started 6/8 1999
Completed 6/9 1999

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	333
7 7/8	Reamed	333

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

N

From (ft.)	To (ft.)	Description and color of formation material
0	2	sand
2	12	sandy red clay
12	50	white clay
50	115	blue clay
115	117	rock
117	130	sand
130	168	clay & sand streaks
168	169	rock
169	200	clay & sand streaks
200	202	rock
202	208	rock
208		sand

(Use reverse side of Well Owner's copy, if necessary)

8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval from 290 ft. to 330 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	Plastic	0	331	Sch40
"	"	Screen Mfg. 20°	310	330	" "

9) CEMENTING DATA
Cemented from 0 ft. to 15 ft. No. of sacks used 1
ft. to ft. No. of sacks used
Method used
Cemented by Larry Deharde
Distance to septic system field lines or other concentrated contamination 120 ft.
Method of verification of above distance Wheel

13) ☒ Well plugged within 48 hours

Casing left in well: From (ft)	Casing left in well: To (ft)	Cement/bentonite placed in well: From (ft)	Cement/bentonite placed in well: To (ft)	Sacks used:

14) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 180 ft.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed
☒ Specified Steel Sleeve Installed
☐ Pitless Adapter Used
☐ Approved Alternative Procedure Used

15) WELL TESTS:
Type test: ☐ Pump ☐ Bailer ☒ Jetted ☒ Estimated
Yield: 50 gpm ~~with~~ @ 250 ft. ~~drawdown after~~ ~~hrs.~~

11) WATER LEVEL:
Static level 111 ft. below land surface Date 6/9/99
Artesian flow gpm. Date

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

12) PACKERS:

Type	Depth
4 - sacks	Hole Plug 280'-290'

FILE ID SEQ
EMP # JUL 14 1999 2928 WPK
COMMENT

I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Deharde Water Well Service (Type or print) WELL DRILLER'S LICENSE NO.

ADDRESS 1075 Schuenemann Rd. (Street or RFD) Seguin (City) TX (State) 78155 (Zip)

(Signed) Larry Deharde (Licensed Well Driller)

(Signed) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDLR FORM 001WWD (4/98) White - TDLR Yellow - DRILLER Pink - WELL OWNER

1m: N1SL
1m: E1WL

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

1) OWNER R. C. SCHUBERT (Name) Address 4119 WILLARD (Street or RFD) SAN ANTONIO (City) TX (State) 78228 (Zip)

2) LOCATION OF WELL: County BEXAR 2 miles in EAST (N.E., S.W., etc.) direction from 181 & FOSTER ROAD (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	130

Date drilled 8-24-85

From (ft.)	To (ft.)	Description and color of formation material
0	50	BROWN SAND & CLAY MIX
50	120	SAND & SHALE MIX
120	130	SAND

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 40 ft. to 130 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	N	PLASTIC	0	130	1/4"
5	N	PERFORATED	90	130	1/4"

CEMENTING DATA
Cemented from 0 ft. to 10 ft.
Method used _____
Cemented by SELF (Company or Individual)

9) WATER LEVEL:
Static level 30 ft. below land surface Date 8-28-85
Artesian flow _____ gpm. Date _____

10) PACKERS: Type N/A Depth

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11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 100 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☑ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

(Use reverse side if necessary)

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

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

COMPANY NAME LIVE OAK WATER WELL DRILLING (Type or Print) RT. 2. BOX 223 FLORESVILLE, TEXAS 78114 (512) 393-3786 Water Well Driller's License No. 2380

ADDRESS _____ (Street or RFD) (City) (State) (Zip)

(Signed) _____ (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 68-46-4
Located on map _____

TDWR-0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER Ester Everhart (Name) ADDRESS 10,951 181 S. (Street or RFD) S.A. (City) Tx. (State) 78226 (Zip)

2) LOCATION OF WELL: County Bexar . 8½ miles in S.E. (NE, SW, etc.) direction from San Antonio (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ SEE ATTACHED MAP

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

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

6) WELL LOG:
Date Drilling: Started 4-3 1993 Completed 4-5 1993

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8¼	Surface	145

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 125 ft. to 145 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface
2	38	Sandy Clay
38	112	Shale
112	145	Sand

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
8¼	N	Plastic	0	145	
			125	145	Slotted

RECEIVED MAY 10 1993 TEXAS WATER COMMISSION

(Use reverse side if necessary)

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 10 ft. No. of Sacks Used 24
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Surface Pour
Cemented by Self

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:
Static level 109 ft. below land surface Date 4-5-93
Artesian flow _____ gpm. Date _____

12) PACKERS: None Type Depth

13) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 120 ft.

14) WELL TESTS:
Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 12 gpm with 0 ft. drawdown after 24 hrs.

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

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

COMPANY NAME D&S Drilling (Type or print) WELL DRILLER'S LICENSE NO. 3067 W.

ADDRESS Rt. 7 Box 417C (Street or RFD) S.A. (City) Tx. (State) 78221 (Zip)

(Signed) Donna Calloway (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 68-95-6

TWC-0199 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

68-45-65

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

State of Texas

WATER WELL REPORT

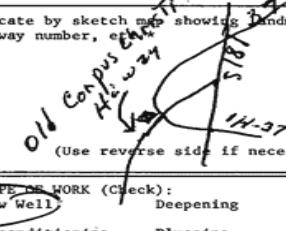
For TWDB use only
Well No. 68-45-65
Located on map yes
Received: 77
dlr

1) OWNER:
Person having well drilled Donald Cowen (Name) Address (Street or RFD) San Antonio - Texas (City) (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Bexar, 8 miles in South (N.E., S.W., etc.) direction from San Antonio (Town)

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



(Use reverse side if necessary)

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

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

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

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

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

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 204 ft. Depth of completed well 204 ft. Date drilled Sept 6, 1977
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	15	Surface
15	22	Shale
22	65	Sand w/ shale streaks
65	80	Tight sand.
80	96	Shale w/ sand streaks
96	99	good sand.
99	110	Shale w/ sand streaks
110	135	firm sand.
135	169	Shale w/ sand streaks
169	175	Shale
175	204	good Sand.

(Use reverse side if necessary)

9) Casing:
Type: Old (New) Steel (Plastic) Other
Cemented from 0 ft. to 90 ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
5"	0	204	

Basket set at 90 ft.
60' perforation 144-204

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

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

8) WATER LEVEL:
Static level 112 ft. below land surface Date 9-6-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.
below land surface.

11) WELL TESTS:
Was a pump test made? Yes (No) If yes, by whom?
Yield: 25 gpm with 30 ft. drawdown after 3 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes (No)
Did any strata contain undesirable water? Yes (No)
Type of water? _____ depth of strata _____

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766

ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State)

(Signed) Fernando E Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-WD-6

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER Texas Ice House (Name) Address 12291 Hi Way 181 S (Street or RFD) SA (City) Texas (State) 78223 (Zip)

2) LOCATION OF WELL: County Bexar 12 miles in SE (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:
Date drilled 3-28-84

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7⅞	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	13	Clay
13	22	Sand
22	49	Shale
49	50	Rock
50	79	Sand
79	101	Shale
101	149	Sand
149	153	Rock
153	179	Sand
179	215	Sand
215	237	Sandy Shale
237	263	Shale
263	300	gard Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☑ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mat., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	Plastic Sch 40	0	300	
		Slotted	240	300	

CEMENTING DATA
Cemented from 240 ft. to 260 ft.
Method used Pump
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 96 ft. below land surface Date 3-24-84
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Halliburton Basket Depth 260'

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DEC 10 1987
(Use reverse side if necessary)

11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 70 gpm with 20 ft. drawdown after 5 hrs.

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

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766
ADDRESS 309 W. Hutchins San Antonio Texas 78221 (Street or RFD) (City) (State) (Zip)
(Signed) Fernando E Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)
DEPARTMENT OF WATER RESOURCES COPY

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB

File original copy with
Texas Water Commission
P. O. Box 12311, Capitol Station
Austin, Texas 78711

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 68-46-48
Located on map
By RJ Date 4/65
Map no. 15(2)

1) Well Owner: AL Thoms 2584 S. W.W White San Antonio Tex
Name Street or RFD City State

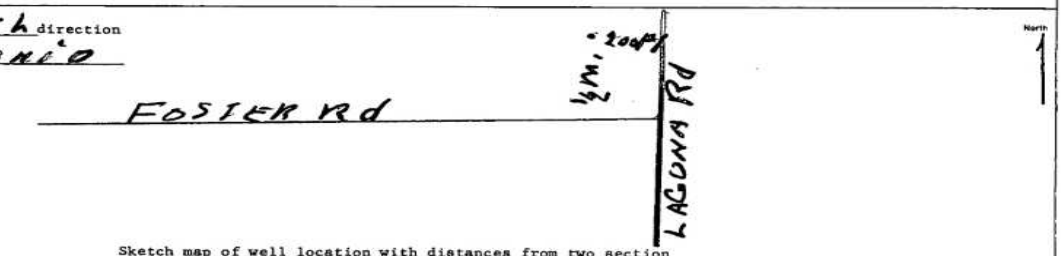
2) Land Owner:
Name Street or RFD City State

3) Intended use: Industrial ☐ Municipal ☑ Irrigation ☐ Other

4) Location of well: County BEXAR Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ (Circle as many as are known) of Section Block No. Survey

5 miles in South direction (NE, SW, etc.)
from SAN ANTONIO (Town)



Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: ROTARY Diameter of hole 8 in. Date drilled 6-4-65

All measurements made from ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	5	HARDPAN.			
5	50	SANDY STREAKS & SHALE			
50	90	SHALE			
90	100	SAND, W.			
100	155	SHALE			
155	180	SAND, W.			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION
Straight wall ☐
Under reamed ☐
Gravel packed ☑
Open hole ☐
Other

CASING
Type: Old ☑ New ☐
Cemented from NONE ft.
to ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
5½	SURFACE	180

SCREEN
Type 5½ OD STEEL P.
Perforated ☐ Slotted ☑

Diameter (inches)	Setting from (ft)	Setting to (ft)
5½	160	180

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

Fred M. Ashley (Signature) Ashley Well Drlg & Ser (Company Name) Reg. No. 303

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level 90 ft.
ft. below SURFACE

Pumping level

feet	hours	gpm

Pump type
Designed pumping rate NO TEST gpm ☐ gph ☐
Type power unit
Horsepower
Depth to bowls, cylinder, jet, etc., ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company:
POWER NOT AVAILABLE

C-34 (62-4)

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER John Webb (Name) Address 10795 So Foster Rd. San Antonio, Tx. 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar ½ miles in Sw (N.E., S.W., etc.) direction from Hilltop Txx (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines 181 So and Foster Rd.

#3. ☐ See attached map. 0768-45-6

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 8/7/89

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6½	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface soil
2	62	Red Shale
62	64	Rock
64	100	Broken brown shale & Sand
100	146	Grey Sand
146	174	Grey shale w/ sand streaks
174	185	Blue sand
185	187	Rock
187	189	Blue shale
189	191	Rock
191	218	Blue shale
218	264	Grey sand and shale
264	298	Grey sand
298	300	Blue shale

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 200 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	PVC	18 Above	300	40

CEMENTING DATA
Cemented from 0 ft. to 20 ft.
Method used Hand mixed
Cemented by Hammett Water System (Company or Individual)

9) WATER LEVEL:
Static level 131 ft. below land surface Date 8/7/89
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

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TEXAS WATER COMMISSION

(Use reverse side if necessary)

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 252 ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 90 gpm with 0 ft. drawdown after 5 hrs.

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

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

NAME Victor E., Hammett (Type or Print) Water Well Drillers Registration No. 1171

ADDRESS 12359 S. Hwy. 181 #4 (Street or RFD) San Antonio Texas (City) (State) 78223 (Zip)

(Signed) Victor Hammett (Water Well Driller) Hammett Water System (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79) DEPARTMENT OF WATER RESOURCES COPY

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-617
Located on map 4QS
Received: C-F-S.

1) OWNER Joe Kunze (Name) Address Rt 12, Box 344 (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE. (N.E., S.W., etc.) direction from San Antonio (Town)
well # 2

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

Date drilled 6-29-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	240

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	30	Caliche white
30	70	Sandy Shale
70	81	Shale
81	82	Rock
82	87	Sand
87	89	Rock
89	105	Sandy Shale
105	130	Shale w/ Shale Stks
130	137	Shale
137	144	Sand
144	151	Shale
151	155	Sand
155	182	Shale
182	198	Sand
198	201	Rock
201	240	Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☑ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	240	
		Slotted 40'			

CEMENTING DATA
Cemented from 0 ft. to 170 ft.
Method used Pumped
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 92 ft. below land surface Date 6-29-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 170

RECEIVED
AUG 26 1982
DEPT. OF WATER RESOURCES

(Use reverse side if necessary)

11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 90 gpm with 30 ft. drawdown after 3 hrs.

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

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

NAME Fernando F. Galindo (Type or Print) Water Well Drillers Registration No. 1766

ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

(Signed) Fernando F. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

DUP

Send orig... by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-6C
Located on map yes
Received: 8.25.83

1) OWNER Luther Townsend (Name) Address Rt 1, Box 357CA (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

2) LOCATION OF WELL: County Bexar 6 miles in S.E. (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

Date drilled 8-20-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	220'

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	20	Sand Shale
20	50	Shale
50	70	Sandy Shale
70	111	Shale
111	113	Rock
113	141	Sandy Shale
141	145	Sand
145	147	Rock
147	150	Sand
150	160	Rock
160	190	Sand
190	192	Rock
192	220	Sand

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	220'	
		40' Perforations	180	220	

CEMENTING DATA
Cemented from 70 ft. to 100 ft.
Method used Pumped
Cemented by Ace Pump Co (Company or Individual)

9) WATER LEVEL:
Static level 90 ft. below land surface Date 8-20-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 100

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DEPT. OF WATER RESOURCES

11) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

(Use reverse side if necessary)

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 80 gpm with 30 ft. drawdown after 3 hrs.

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766

ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

(Signed) Fernando E. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

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DEPARTMENT OF WATER RESOURCES COPY

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-6T
Located on map 465
Received: C.F.S.

1) OWNER Joe. Kunze (Name) Address Rt 12, Box 344 (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE (N.E., S.W., etc.) direction from San Antonio (Town)
Well #3

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:
Date drilled 8-20-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6¼	Surface	220

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	15	Caliche, White
15	35	Caliche, Yellow
35	49	Caliche, Red
49	65	Shale
65	77	Shale w/ Sand Stks
77	105	Sand
105	108	Rock
108	119	Shale w/ Sand Stks
119	123	Rock
123	146	Shale
146	173	Sand
173	179	Shale
179	206	Sand
206	220	Sand

7) BOREHOLE COMPLETION: ☑ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	220	
		Slotted 40	180	220	

CEMENTING DATA
Cemented from 0 ft. to 180 ft.
Method used Pumped
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 91 ft. below land surface Date 8-2-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 130

RECEIVED
AUG 26 1982
DEPT. OF WATER RESOURCES
(Use reverse side if necessary)

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 100 gpm with 30 ft. drawdown after 3 hrs.

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

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1764
ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)
(Signed) Fernando E. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-46-401

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6846401
County	Bexar
River Basin	San Antonio
Groundwater Management Area	13
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.298334
Latitude (degrees minutes seconds)	29° 17' 54" N
Longitude (decimal degrees)	-98.365278
Longitude (degrees minutes seconds)	098° 21' 55" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	124CRRZ - Carrizo Sand
Aquifer	Carrizo-Wilcox
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	577
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	400
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Wester Trails WSC
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	G0150222A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/3/2009
Last Update Date	7/20/2016

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

Texas Water Development Board
Well Schedule

groundwater resources division

State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**

Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**

Owner: **Wester Trails WSC** Driller:

Aquifer ID: **Carrizo-Wilcox**

Aquifer Code: **124CRRZ**

CARRIZO SAND

Depth (ft): **400** Elevation (ft): **577**

Source of Depth: **Another Government Agency** Source of Elevation: **Interpolated From Topo Map**

Date Drilled: Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: Completion:

Casing Material: Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

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

WATER USE

Primary: Secondary: Tertiary:

Water Levels: **None** Water Quality: **N**

Other Data: Logs:

REMARKS:
Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **09/03/2009**

Recorded by: D R Jones

New

Attachment L

Groundwater Quality Technical Report

BRAUN INTERTEC

Groundwater Quality Technical Report

Aztec Estates Mobile Home Park
11704 South Highway 181
San Antonio, Texas

Prepared For

Capstone Property Management, LLC

Prepared By

Braun Intertec Corporation

Project B2303494
8/8/2024

BRAUN INTERTEC
The Science You Build On.

Table of Contents

1.0 Introduction

The objective of this groundwater quality technical report is to assess the impact of the wastewater application operation (septic leach fields) located at Aztec Estates Mobile Home Park located at 11704 South US Highway 181, Bexar County, San Antonio, Texas 78223 (Site) on the uses of local groundwater resources. This report was prepared to meet the Wastewater Discharge Permit (WWDP) groundwater technical report requirements in accordance with *Title 30 Texas Administrative Code (30 TAC) §309.20(a)(4)(A and B).* To perform this assessment the local geology was evaluated, a desktop water well survey was performed to identify water wells and their classification or usage within 0.5-mile and 1-mile radii of the Site, and regional groundwater resources and quality information was reviewed. The results are presented in the following sections.

2.0 Water Well Database Review - 30 TAC § 309.20(a)(4)(A)

The Texas Water Development Board (TWDB) Groundwater Viewer, Texas Commission of Environmental Quality (TCEQ) Water Well Report Viewer, and the United States Geological Survey National Water Information System (NWIS) Mapper were reviewed to identify water wells within a 1-mile radius of the Site in conjunction with a Texas Water Well Report obtained from Environmental Risk Services (ERIS) and the Map and Well Information provided in Worksheet 3, Section 6. Twenty-seven water wells were identified: two plugged water wells (formally located at the Site), two irrigation wells, one water supply well, one municipal well, and twenty-one domestic-use wells; of these 27 wells, 12 are located within a 0.5-mile radius of the Site. Available information and well construction data for the 12 wells identified are summarized on **Table 1**.

Water quality information for these wells was not available for review. The wells reviewed were drilled to depths ranging from 130 to 694 feet below ground surface (bgs) and were completed in the Wilcox Group. Limited boring log information showed that the underlying geology consisted of interbeds of shale, clay, and sand. The static water levels for the wells ranged from 30 to 160 feet bgs, which are elevations above their respected screened intervals indicating semi-confined to confined conditions. The yields of the identified wells were recorded ranging from 12 to 100 gallons per minute (GPM).

No monitoring wells were identified within 1-mile radius of the Site during the review. Preoperational baseline groundwater quality data is not available.

3.0 Regional Groundwater Resources - 30 TAC § 309.20(a)(4)(B)

San Antonio Water System (SAWS) utilizes primarily groundwater resources to provide potable water to the City of San Antonio and the surrounding area, including the Site. The area is also under the jurisdiction of the South Central Texas Regional Water Planning Area, Groundwater Management Area 13, and the Edwards Aquifer Authority Groundwater Conservation District. The majority of domestic raw groundwater supply provided by SAWS comes from wells completed in the Edwards Aquifer in the northwestern portion of Bexar County.

SAWS does not provide area specific water quality data, but it does provide the highest levels of contaminants recorded at different sites in an annual water quality report. In a 2023 Water Quality Report, SAWS stated that no Escherichia coli bacteria were observed in the sampled drinking water in their

distribution systems. The highest nitrate concentration observed in their monitored water plants was 2.51 parts per million (ppm) while the average chlorine concentration observed in their water distribution system was 1.478 ppm; total dissolved solids (TDS), sulfates, and pH data were not provided in the Water Quality Report.

4.0 Geology and Hydrogeology

According to the Geologic Atlas of Texas San Antonio Sheet (1974), the underlying geologic unit at the Site is the Wilcox Group which consists of mostly mudstones and various amounts of sandstone, lignite, glauconitic sands, and conglomerate. The thickness of the Wilcox Group ranges from 440 feet to 1,200 feet and forms part of the Carrizo-Wilcox Aquifer. According to TWDB Groundwater Viewer, the Site is in the outcropping portion of the Carrizo-Wilcox Aquifer (TWDB, 2023). Water wells within a 1-mile radius of the Site are producing water from depths ranging from 130 to 694 feet bgs. The Carrizo-Wilcox Aquifer is a major aquifer extending parallel to the Gulf Coast from Louisiana to the border of Mexico and is primarily composed of sand locally interbedded with gravel, silt, clay, and lignite. The Carrizo-Wilcox Aquifer reaches 3,000 feet in thickness, however, much of the water is brackish and the freshwater saturated thickness of the sands averages 670 feet.

Groundwater resources in the vicinity of the Site are primarily located in the Edwards Aquifer that underlies the Carrizo-Wilcox Aquifer. In the San Antonio region, the Edwards Limestone attains a thickness of approximately 450 to 500 feet, of which about 450 feet make up the Edwards Aquifer that dips steeply toward the Gulf of Mexico. The production zone of the Edwards Aquifer and the majority of SAWS water supply wells are located in the northwestern portion of Bexar County due to saltwater intrusion into the Edwards Aquifer in the southeastern part of the county. The Carrizo-Wilcox Aquifer production zone in the San Antonio region is of generally poorer water quality.

The wells exhibit high static water levels (above screened intervals). This suggests that the clay and impermeable interbeds described in the reviewed boring logs may be providing pressure to the local water-bearing unit creating semi-confining or confining conditions. Coupled with the depth of the producing zones from the water wells, it also suggests that the semi-confining or confining layer restricts the vertical migration of infiltrating water or wastewater from reaching the groundwater resources beneath the shallow leach fields. Given the well depths, impermeable layers, and upward gradient, it is highly unlikely that effluent seepage from the shallow leach fields on the Site would directly impact groundwater resources in the area.

Appendix A

References

References

ERIS, Texas Water Well Report, July, 11 2023.

San Antonio Water System, 2023 Water Quality Report.
http://www.saws.org/wp-content/uploads/2023/06/252729.0150018_SAWS_Main.pdf

Texas Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet, 1974.

Texas Commission of Environmental Quality, Water Well Report Viewer.
https://www.tceq.texas.gov/gis/waterwellview.html

Texas Water Development Board, Groundwater Data Viewer.
https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer

United States Geological Survey, National Water Information System Mapper.
https://www.usgs.gov/tools/national-water-information-system-nwis-mapper

TABLE

Table 1
Water Wells Within 1.0 Mile Radius
Aztec Estates Mobile Home Park
San Antonio, Texas

Well Report Tracking #	Well Use	Drilling Start Date	Drilling End Date	Latitude and Longitude	Distance From Site (miles)	Total Depth (ft bgs)	Screened Interval (ft bgs)	Static Elevation[2] (ft bgs)	Yield (GPM)	Casing Diameter (in)	Casing type	Source
436500	Domestic	10/18/2016	10/20/2016	29.299806, -98.373750	0.25	327	277 - 317	102	30	5	PVC	TWDB[1]
194513	Domestic	12/5/2005	12/6/2005	29.306389, -98.368611	0.49	305	260 - 305	86	80	4	PVC	TWDB[1]
351994	Domestic	12/17/2013	1/3/2014	29.299167, -98.380833	0.25	360	280 - 360	106	60	5	PVC	TWDB[1]
343769	Domestic	10/11/2013	10/16/2013	29.298334, -98.365278	0.71	290	240 - 280	100	40	5	PVC	TWDB[1]
344418	Domestic	10/20/2013	10/23/2013	29.306945, -98.365278	0.64	300	250 - 290	96	40	5	PVC	TWDB[1]
555669	Domestic	9/23/2020	10/1/2020	29.305900, -98.366000	0.58	320	260 - 320	112	30	5	PVC	TWDB[1]
402557	Irrigation	6/8/2015	6/12/2015	29.310001, -98.385834	0.54	520	300 - 360, 400 - 420, 460 -480	160	20	5	PVC	TWDB[1]
405835	Irrigation	8/18/2015	8/23/2015	29.309461, -98.385672	0.51	694	220 - 240, 300 - 320, 420 - 440	85	65	5	PVC	TWDB[1]
6846401	Water Supply Well	--	--	29.298334, -98.365278	0.77	400	--	--	--	--	--	TWDB[1]
58944	Plugged	--	plugged 8/31/2009	29.302778, -98.380000	0	156	--	--	--	4	plugged	TWDB[1]
57773	Plugged	--	plugged 8/18/2009	29.302778, -98.380000	0	207	--	--	--	8	plugged	TWDB[1]
68-46-4 CRANE ENTERPRISES	Domestic	--	4/1/1993	29.301136, -98.379298	0.06	300	--	136	40	4	PVC	TCEQ[3]
68-45-6 BILL BLOCKER	Domestic	12/18/1995	1/15/1996	29.305509, -98.372197	0.22	297	197 - 297	120	20	4	PVC	TCEQ[3]
68-46-4T EMIL DELGADO	Domestic	--	5/23/1983	29.308276, -98.373350	0.29	278	238 - 278	75	35	5	PVC	TCEQ[3]
68-46-4 JAMES W. HALE	Domestic	--	3/10/1990	29.303190, -98.370431	0.33	300	--	102	100	4	PVC	TCEQ[3]
68-46-4 JACKIE ARMOND	Domestic	9/3/1986	9/6/1986	29.298109, -98.373538	0.33	300	260 - 300	92	50	5	PVC	TCEQ[3]
68-45-6 LESLEY CAMPBELL	Domestic	1/9/1997	1/17/1997	29.296714, -98.372140	0.46	174	--	88	--	4	PVC	TCEQ[3]
68-46-4 TIM POLLOCK	Domestic	6/8/1999	6/9/1999	29.304232, -98.367545	0.49	333	310 - 330	111	50	4	PVC	TCEQ[3]
68-46-4 R. C. SCHUBERT	Domestic	--	8/24/1985	29.304787, -98.367199	0.51	130	90 - 130	30	--	5	PVC	TCEQ[3]
68-45-6 ESTER EVERHART	Domestic	4/3/1993	4/5/1993	29.303193, -98.389830	0.56	145	125 - 145	109	12	8.5	PVC	TCEQ[3]
68-45-6S DONALD COUER	Domestic	--	9/6/1977	29.303494, -98.391913	0.68	204	144 - 204	112	25	5	PVC	TCEQ[3]
68-46-4 TEXAS ICE HOUSE	Domestic	--	3/28/1984	29.295759, -98.368035	0.70	300	260 - 300	96	70	5	PVC	TCEQ[3]
68-46-4 AL THOMAS	Municipal	--	6/4/1965	29.298461, -98.365607	0.74	180	160 - 180	90	--	5.5	Steel	TCEQ[3]
68-46-4 JOHN WEBB	Domestic	--	8/7/1989	29.310202, -98.363812	0.81	300	--	131	90	4	PVC	TCEQ[3]
68-45-6T JOE KUNZE	Domestic	--	6/29/1982	29.308568, -98.393820	0.89	240	--	92	90	5	PVC	TCEQ[3]
68-45-6C LUTHER TOWNSEND	Domestic	--	8/20/1982	29.309099, -98.395024	0.97	220	180 - 220	90	80	5	PVC	TCEQ[3]
68-45-6T JOE KUNZE	Domestic	--	8/20/1982	29.307760, -98.395757	0.97	220	180 - 220	91	100	5	PVC	TCEQ[3]

Notes:

[1]Texas Water Development Board

[2]Depth to water measurement was obtained from driller's log.

[3]Texas Commission of Environmental Quality

bgs = below ground surface

GPM = gallons per minute

-- = not available

Appendix B

ERIS Texas Water Well Report

BRAUN INTERTEC

TEXAS WATER WELL REPORT

Project Property:	*Aztec Estates - Domestic WW* *11704 US-181* *San Antonio TX*
Project No:	*B2303494*
Order No:	*23070600489*
Requested by:	*Braun Intertec Corporation*
Date Completed:	*July 11, 2023*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Executive Summary

Property Information:

Project Property:	*Aztec Estates - Domestic WW* *11704 US-181 San Antonio TX*
Project No:	*B2303494*
Coordinates:	
Latitude:	*29.30371304*
Longitude:	*-98.37808161*
UTM Northing:	*3,241,795.62*
UTM Easting:	*560,397.51*
UTM Zone:	*14R*
Target Property Geometry:	*POLYGON*
County/Parish Covered:	*Bexar (TX)*
Zipcode(s) Covered:	*Elmendorf TX: 78112* *San Antonio TX: 78223*
State(s) Covered:	*TX*

Executive Summary: Report Summary

Database	Searched	Project Property	Within 1.00mi	Total
Federal				
FED USGS	Y	0	0	0
State				
TCEQ WELL LOGS	Y	0	**16**	**16**
SDRW WELLS	Y	0	**8**	**8**
GWDB	Y	0	**1**	**1**
WW FORT BEND	Y	0	0	0
WW HIGH PLAINS	Y	0	0	0
WW HARRIS GAL	Y	0	0	0
WUD	Y	0	0	0
Total:		0	**25**	**25**

**** PO – Property Only***

Executive Summary: Site Report Summary - Project Property

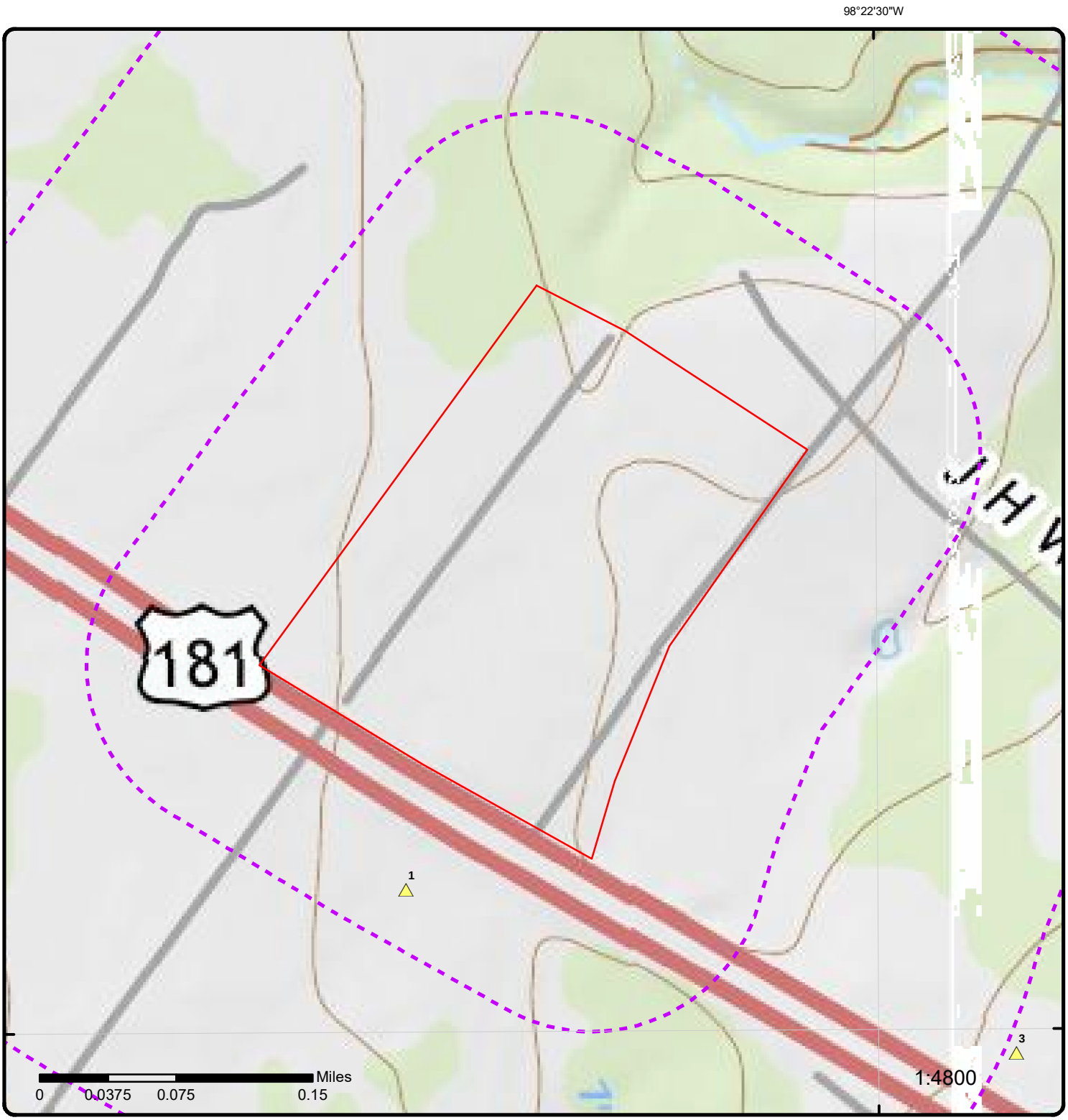
Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number

No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
1	TCEQ WELL LOGS		TX	SSW	0.06 / 340.97	13
			***Grid No**	**Owners Name:** 68-46-4 | CRANE ENTERPRISES*		
2	TCEQ WELL LOGS		TX	ENE	0.22 / 1,137.51	15
			***Grid No**	**Owners Name:** 68-45-6 | BILL BLOCKER*		
3	SDRW WELLS	Jesus Fernandez	San Antonio TX	SE	0.26 / 1,355.16	17
			***Track NO:** 436500*			
4	SDRW WELLS	Jesse Benavides	11920 Donop Rd San Antonio TX 78223	SSW	0.26 / 1,366.40	18
			***Track NO:** 351994*			
5	TCEQ WELL LOGS		TX	NE	0.29 / 1,505.34	19
			***Grid No**	**Owners Name:** 68-46-4T | EMIL DELGADO*		
6	TCEQ WELL LOGS		TX	E	0.33 / 1,735.45	23
			***Grid No**	**Owners Name:** 68-46-4 | JAMES W. HALE*		
7	TCEQ WELL LOGS		TX	SE	0.33 / 1,757.93	25
			***Grid No**	**Owners Name:** 68-46-4 | JACKIE ARMOND*		
8	TCEQ WELL LOGS		TX	SE	0.46 / 2,430.26	29
			***Grid No**	**Owners Name:** 68-45-6 | LESLEY CAMPBELL*		
9	SDRW WELLS	J.B. King	11297 S. Foster Rd. San Antonio TX 78155	ENE	0.47 / 2,497.84	31
			***Track NO:** 194513*			
10	TCEQ WELL LOGS		TX	E	0.49 / 2,578.19	32
			***Grid No**	**Owners Name:** 68-46-4 | TIM POLLOCK*		
11	SDRW WELLS	GDRM 181 RLP	10842 GREEN LAKE DR SAN ANTONIO TX	NW	0.50 / 2,664.71	35
			***Track NO:** 405835*			
12	TCEQ WELL LOGS		TX	E	0.51 / 2,685.00	36
			***Grid No**	**Owners Name:** 68-46-4 | R. C. SCHUBERT*		
13	SDRW WELLS	RAY VARGAS	10842 GREEN LAKE DR SAN ANTONIO TX	NW	0.54 / 2,863.78	39

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
			Track NO: *402557*			
14	TCEQ WELL LOGS	ESTER EVERHART	TX	W	0.56 / 2,935.10	40
			Grid No **|** ***Owners Name:*** *68-45-6* | *ESTER EVERHART*			
15	SDRW WELLS	Edward Fernandez	11080 South Foster Rd San Antonio TX 78223	E	0.59 / 3,100.87	43
			Track NO: *555669*			
16	SDRW WELLS	Edwardo Hernandez	11080 S. Foster Rd. San Antonio TX 78223	ENE	0.64 / 3,402.07	44
			Track NO: *344418*			
17	TCEQ WELL LOGS	DONALD COUER	TX	W	0.68 / 3,603.06	45
			Grid No **|** ***Owners Name:*** *68-45-6S* | *DONALD COUER*			
18	TCEQ WELL LOGS		TX	SE	0.70 / 3,670.46	47
			Grid No **|** ***Owners Name:*** *68-46-4* | *TEXAS ICE HOUSE*			
19	SDRW WELLS	Jaun Hernandez	11080 S.Foster Rd San Antonio TX 78223	ENE	0.73 / 3,855.89	51
			Track NO: *343769*			
20	GWDB	Wester Trails WSC	TX	ESE	0.74 / 3,900.76	52
			State Well NO **|** ***Owner Name:*** *6846401* | *Wester Trails WSC*			
20	TCEQ WELL LOGS		TX	ESE	0.74 / 3,900.76	55
			Grid No **|** ***Owners Name:*** *68-46-4* | *AL THOMS*			
21	TCEQ WELL LOGS		TX	ENE	0.81 / 4,273.74	57
			Grid No **|** ***Owners Name:*** *68-46-4* | *JOHN WEBB*			
22	TCEQ WELL LOGS	JOE KUNZE	TX	WNW	0.89 / 4,677.39	61
			Grid No **|** ***Owners Name:*** *68-45-6T* | *JOE KUNZE*			
23	TCEQ WELL LOGS	LUTHER TOWNSEND	TX	WNW	0.97 / 5,106.79	64
			Grid No **|** ***Owners Name:*** *68-45-6C* | *LUTHER TOWNSEND*			
24	TCEQ WELL LOGS	JOE KUNZE	TX	WNW	0.97 / 5,131.46	67
			Grid No **|** ***Owners Name:*** *68-45-6T* | *JOE KUNZE*			

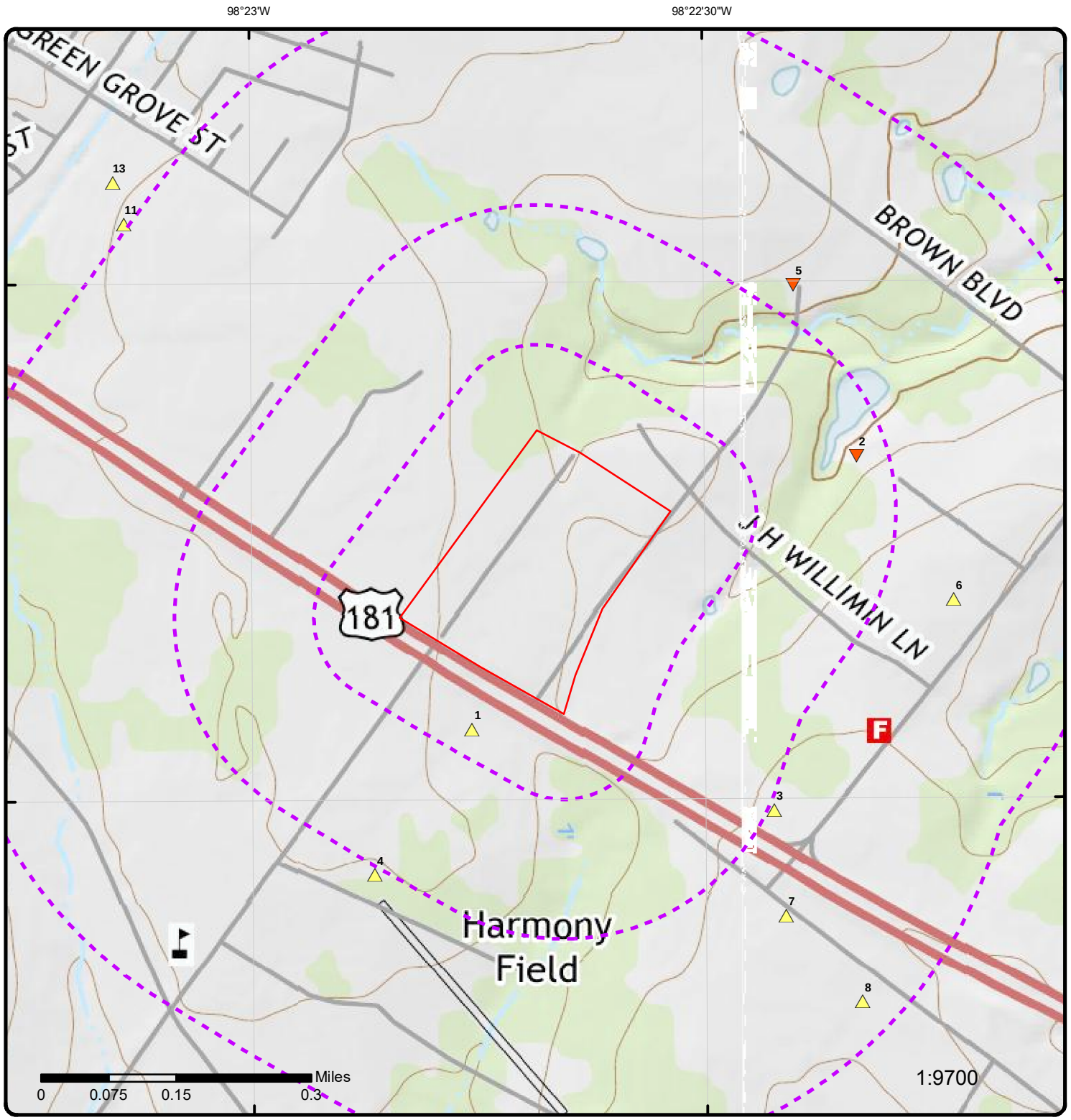


Map: 1.0 Mile Radius | Zoom Level: 3
Order Number: 23070600489
Address: 11704 US-181, San Antonio, TX

ERIS

Plotted Water Wells

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation

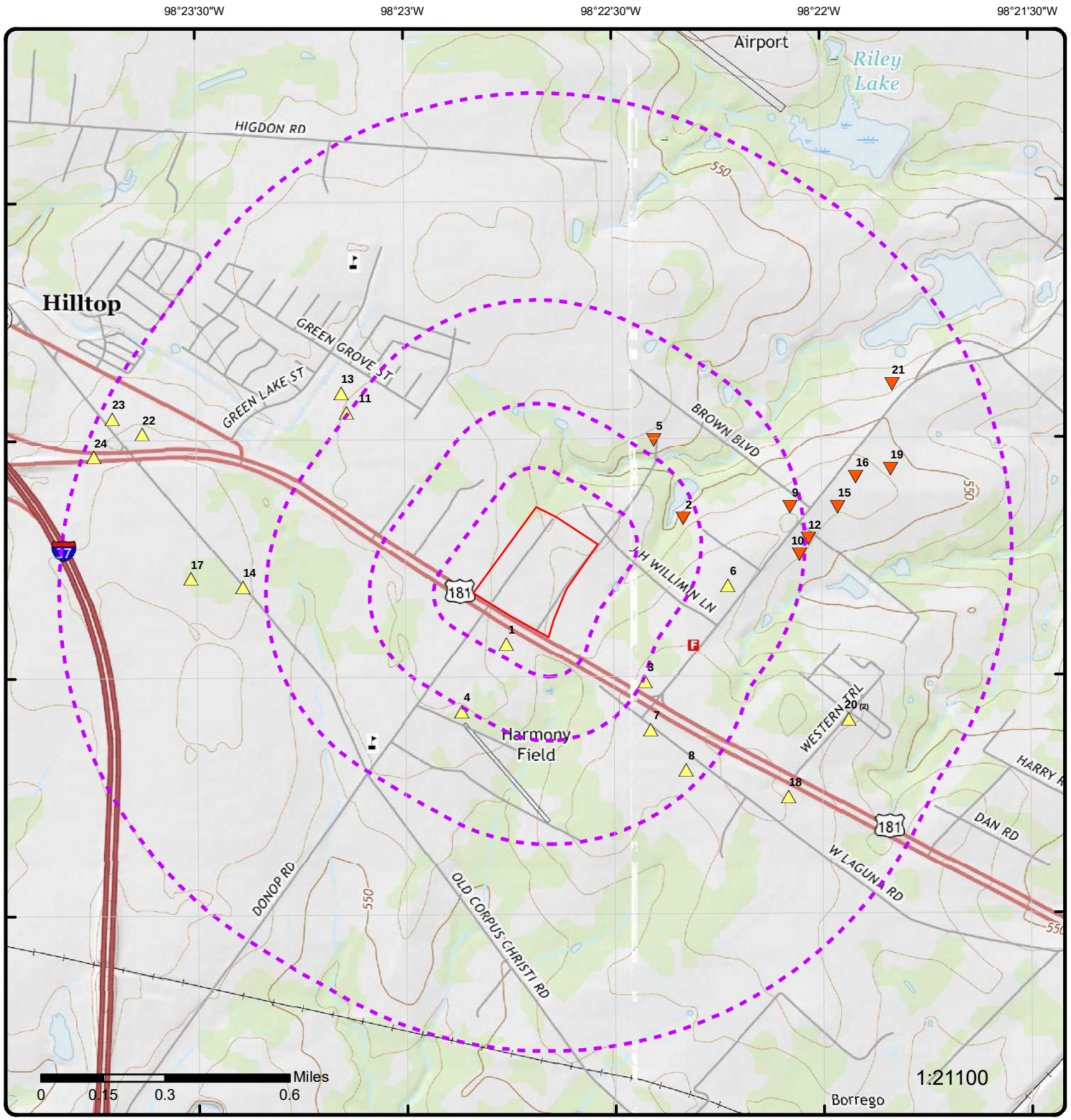


Map: 1.0 Mile Radius | Zoom Level: 2
Order Number: 23070600489
Address: 11704 US-181, San Antonio, TX

ERIS

Plotted Water Wells

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation



Map: 1.0 Mile Radius | Zoom Level: 1
Order Number: 23070600489
Address: 11704 US-181, San Antonio, TX

ERIS

Plotted Water Wells

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation

Aerial **Year: 2022**

Address: 11704 US-181, San Antonio, TX

Source: ESRI World Imagery

Order Number: 23070600489

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
1	1 of 1	SSW	0.06 / 340.97	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 04/01/1993
Owners Name: CRANE ENTERPRISES
County: BEXAR
Water Usage: DOMESTIC
Static Level: 136
Depth Drilled: 301
Latitude: 29.30113608735378
Longitude: -98.37929845712083

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER Crane Enterprises (3) (Name) ADDRESS 11717 Hwy 181 So. (Street or RFD) San Antonio (City) 7822 (State) (Zip)

2) LOCATION OF WELL: County Bexar, 3 miles in S (NE, SW, etc.) direction from L00p 410 181 So (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ SEE ATTACHED MAP 68-52-4

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

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started _____ 19__ Completed 4/1 19 93

DIAMETER OF HOLE	Dia. (in.)	From (ft.)	To (ft.)
	6 3/4	Surface	300

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	4	Black Surface soil
4	9	Yellow Clay
9	14	Grey Clay
14	30	Surface sand w/Black Speck
30	40	Sandy yellow Clay
40	65	Shale
65	234	Black Shale
234	235	Sand Stone
235	301	Black Shale & water sand

(Use reverse side if necessary)

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PCV	18" above		
				300	40

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 16 ft. to 0 ft. No. of Sacks Used 20
ft. to ft. No. of Sacks Used
Method used Hand mixed
Cemented by Hammett Water System

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TEXAS WATER COMMISSION

13) TYPE PUMP: ☐ Turbine ☒ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 220 ft.

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

14) WELL TESTS:
Type Test: 40 ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: _____ gpm with 0 ft. drawdown after 5 hrs.

11) WATER LEVEL:
Static level 136 ft. below land surface Date 4/1/93
Artesian flow _____ gpm. Date _____

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

12) PACKERS: Type Depth

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

COMPANY NAME Hammett Water System (Type or print) WELL DRILLER'S LICENSE NO. 1171

ADDRESS 12359 S. Hwy 181 #4 (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

(Signed) Victor Hammett (Licensed Well Driller) (Signed) 8/26/93 (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 68-46-4

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
2	1 of 1	ENE	0.22 / 1,137.51	TX	TCEQ WELL LOGS

Grid No:	68-45-6
Date Drilled:	01/15/1996
Owners Name:	BILL BLOCKER
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	120
Depth Drilled:	297
Latitude:	29.30550907391904
Longitude:	-98.37219730875081

Send original copy by certified mail to: TNRCC, P.O. Box [redacted]7, Austin, TX 78711-3087 — Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER Bill Blocker (Name) ADDRESS 11489 S Foster Rd. San Antonio, Tx 78223 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: County Bexar 11489 S.Foster Rd (Street, RFD or other) San Antonio, TX 78223 (City) (State) (Zip) GRID # 68-45-6

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

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

5)

6) WELL LOG:
Date Drilling: Started 12/18/95 Completed 1/15/96

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	297

7) DRILLING METHOD (Check): [ ] Driven [ ] Air Rotary [X] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface soil
2	18	Red clay
18	28	Yellow sand
28	30	Rock
30	170	Brokkn blue sand & shale
170	172	Rock
172	210	Hard blue shale
210	295	Broken blue sand and shale
295	297	Rock

(Use reverse side if necessary)

8) Borehole Completion (Check): [ ] Open Hole [ ] Straight Wall [ ] Underreamed [X] Gravel Packed [ ] Other
If Gravel Packed give interval ... from 100 ft. to 297 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC	18" above	297	40
4	N	Perf.	197	297	40

9) CEMENTING DATA [Rule 338.44(1)]
Cemented from 0 ft. to 14 ft. No. of sacks used 14
ft. to ft. No. of sacks used
Method used Hand Mixed
Cemented by Hammett Water System
Distance to septic system field lines or other concentrated contamination ft.
Method of verification of above distance

13) TYPE PUMP:
[ ] Turbine [ ] Jet [X] Submersible [ ] Cylinder
[ ] Other
Depth to pump bowls, cylinder, jet, etc., 220 ft.

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

14) WELL TESTS:
Type test: [ ] Pump [X] Bailer [ ] Jetted [ ] Estimated
Yield: 20 gpm with 0 ft. drawdown after 3 hrs.

11) WATER LEVEL:
Static level 120 ft. below land surface Date 1/15/96
Artesian flow gpm. Date

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

12) PACKERS:

Type	Depth
Canvas	14 Ft

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

COMPANY NAME Hammett Water System (Type or print) WELL DRILLER'S LICENSE NO. 1171

ADDRESS 12359 So Hwy 181 #4 (Street or RFD) San Antonio, Tx 78224 (City) (State) (Zip)

(Signed) Victor Hammett (Licensed Well Driller)

(Signed) (Registered Driller Trainee)

RECEIVED JUN 1997 TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94) TNRCC COPY

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
3	1 of 1	SE	0.26 / 1,355.16	Jesus Fernandez San Antonio TX	SDRW WELLS

Track NO: 436500
Date Submitted: 2016-11-07
Owner Name: Jesus Fernandez
Owner Address: 431 Ware
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78221
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.299806
Longitude: -98.37375
Drilling Date Started: 2016-10-18
Drilling Date Completed: 2016-10-20
Chemical Analysis: No
Company Name: TJ & TB Drilling
Company Address: PO Box 1009
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=436500&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 327

Top Depth:
Bottom Depth: 327.0

Well Levels

Measurement: 102
Measurement Date: 2016-10-21

Well Strata

Water Type:

Good Drinking Water

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
4	1 of 1	SSW	0.26 / 1,366.40	Jesse Benavides 11920 Donop Rd San Antonio TX 78223	SDRW WELLS

Track NO: 351994
Date Submitted: 2014-01-20
Owner Name: Jesse Benavides
Owner Address: 11920 Donop Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.299167
Longitude: -98.380833
Drilling Date Started: 2013-12-17
Drilling Date Completed: 2014-01-03
Chemical Analysis: No
Company Name: Thomas Moy and Sons
Company Address: 12323 N St Hwy 123
CompanyAddress2:
Company City: Falls City
Company State: TX
Company Zip: 78113
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=351994&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 360

Top Depth:
Bottom Depth: 360.0

Well Levels

Measurement: 106
Measurement Date:

Well Strata

Water Type:

fresh

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
5	1 of 1	NE	0.29 / 1,505.34	TX	TCEQ WELL LOGS

Grid No: 68-46-4T
Date Drilled: 05/23/1983
Owners Name: EMIL DELGADO
County: BEXAR
Water Usage: DOMESTIC
Static Level: 75
Depth Drilled: 278
Latitude: 29.308276272510547
Longitude: -98.37335032334082

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4T
Located on map yes
Received: C.F.S.

1) OWNER Emil Delgado (Name) Address San Antonio (Street or RFD) (City) Texas (State) (Zip)

2) LOCATION OF WELL: County Bexar 2 miles in North (N.E., S.W., etc.) direction from Foster Rd on 181 (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 5/23/83

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	278

From (ft.)	To (ft.)	Description and color of formation material
0	3	Surface
3	24	Clay
24	26	Rock
26	70	Clay
70	75	Sandy
75	115	Clay
115	116	Rock
116	152	Shale
152	158	Sand
158	165	Shale
165	170	Sandy
170	175	Shale
175	176	Rock
176	185	Shale
185	190	Sand
190	200	Shale
200	203	Sandy
203	210	Shale
210	211	Rock
211	228	Shale
228	229	Rock
229	232	Shale
232	233	Rock
233	245	Shale
245	250	Sand
250	252	Rock
252	255	Sand
255	256	Rock

256-278- Sandy TD

(Use reverse side if necessary)

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AUG 26 1983
DEPT. OF WATER RESOURCES

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 120 ft. to 278 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	N	Plastic	0	278	250
5	N	Screen	238	278	250

CEMENTING DATA
Cemented from 0 ft. to 120 ft.
Method used Grouting
Cemented by Emilo Delgado (Company or Individual)

9) WATER LEVEL:
Static level 75 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 35 gpm with _____ ft. drawdown after _____ hrs.

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

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

NAME Edward R. Jarzomber (Type or Print) Water Well Drillers Registration No. 686

ADDRESS 921 4th St (Street or RFD) Floresville (City) Tx (State) 78114 (Zip)

(Signed) Edward R. Jarzomber (Water Well Driller) J-B Drilling (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
6	1 of 1	E	0.33 / 1,735.45	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 03/10/1990
Owners Name: JAMES W. HALE
County: BEXAR
Water Usage: DOMESTIC
Static Level: 102
Depth Drilled: 300
Latitude: 29.303189763473842
Longitude: -98.37043073883767

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER James W. Hale (Name) Address 11593 So. Foster Rd. San Antonio, Texas 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar, 4 miles in SW (N.E., S.W., etc.) direction from HillTop (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. ____ Block No. ____ Township ____
Abstract No. ____ Survey Name ____
Distance and direction from two intersecting section or survey lines Hwy 181 and Foster Rd.
☐ See attached map. #2. on 68-45-6

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other

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

6) WELL LOG:
Date drilled 3/10/90

Dia. (in.)	From (ft.)	To (ft.)
6¾	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
o	1	Surface soil
1	40	Red and yellow shale
40	116	Broken blue shale and sand
116	142	Black Sand
142	145	Rock
145	204	Broken sand a nd shale
204	230	Grey Sand
230	265	Sand and rock
265	269	Shale
269	298	Grey Sand
298	300	Blue shale

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other
If Gravel Packed give interval . . . from 220 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing	Gage Screen
4	N	PVC	18' Above	300		40

CEMENTING DATA
Cemented from 0 ft. to 18 ft.
Method used Hand Mixed
Cemented by Hammett Water System (Company or Individual)

RECEIVED
OCT 3 1990
TEXAS WATER COMMISSION

9) WATER LEVEL:
Static level 102 ft. below land surface Date 3/10/90
Artesian flow ____ gpm. Date ____

10) PACKERS: Type Depth

11) TYPE PUMP: None
☐ Turbin ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other
Depth to pump bowls, cylinder, jet, etc., ____ ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 100 gpm with 0 ft. drawdown after 4 hrs.

(Use reverse side if necessary)

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

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

NAME Victor Hammett (Type or Print) Water Well Drillers Registration No. 1171

ADDRESS 12359 S Hwy. 181 #4 (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

(Signed) Victor Hammett (Water Well Driller) Hammett Water System (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.
TDWR-0392

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	1 of 1	SE	0.33 / 1,757.93	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 09/06/1986
Owners Name: JACKIE ARMOND
County: BEXAR
Water Usage: DOMESTIC
Static Level: 92
Depth Drilled: 300
Latitude: 29.29810947757998
Longitude: -98.37353832386187

Please use black ink.
Send original copy by certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

1) OWNER Jackie Osmond (Name) Address 270 Laguna Rd. San Antonio Tex 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 8 miles in South E (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

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

6) WELL LOG:
Date Drilling: Started 9-3 19 86 Completed 9-6 19 86

DIAMETER OF HOLE Dia. (in.)	From (ft.)	To (ft.)
7⅞	Surface	300

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

From (ft.)	To (ft.)	Description and color of formation material
0	4	Surface
4	13	caliche
13	28	yellow clay
28	52	sand
52	53	Rock
53	70	shale
70	123	sand
123	177	shale w/ sand stks
177	201	sand
201	215	shale
215	229	sand
329	257	shale
257	300	sand good

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfr., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	Plastic Sch 40	0	300	
		40' Slotted	260	300	

9) CEMENTING DATA (Rule 319.44(b))
Cemented from 230 ft. to 250 ft. No. of Sacks Used 8
ft. to ft. No. of Sacks Used
Method used Pumped
Cemented by Ace Pump Co.

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 92 ft. below land surface Date 9-6-86
Artesian flow _____ gpm. Date _____

12) PACKERS: Type Halliburton Basket Depth 250

13) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 50 gpm with 30 ft. drawdown after 4½ hrs.

RECEIVED
SEP 14 1987
TEXAS WATER COMMISSION

(Use reverse side if necessary)

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

I here by certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Ace Pump Co (Type or Print) Water Well Driller's License No. 1764
ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)
(Signed) Fernando E Galindo (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only
Well No. 68-46-4
Located on map _____

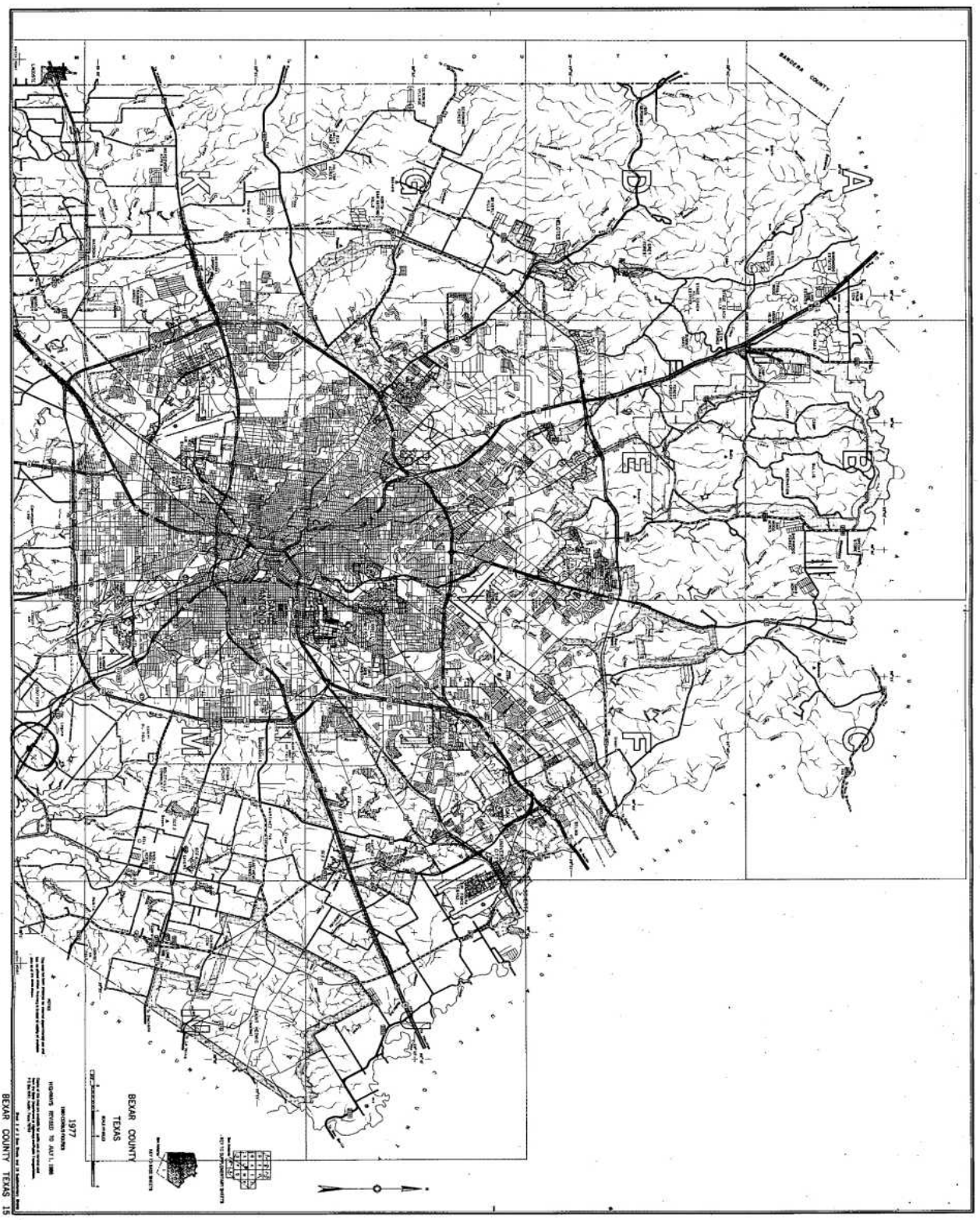
WWD-012 (Rev.01-28-87) TEXAS WATER COMMISSION COPY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep; or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.


BEXAR COUNTY
TEXAS
1977
BEXAR COUNTY TEXAS 15

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
8	1 of 1	SE	0.46 / 2,430.26	TX	TCEQ WELL LOGS

Grid No: 68-45-6
Date Drilled: 01/17/1997
Owners Name: LESLEY CAMPBELL
County: BEXAR
Water Usage: DOMESTIC
Static Level: 88
Depth Drilled: 174
Latitude: 29.296714244127067
Longitude: -98.37213956193801

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

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) **OWNER** Lesley Campbell (Name) **ADDRESS** 6020 W. Laguna (Street or RFD) San Antonio (City) Tx (State) 78223 (Zip)

2) **ADDRESS OF WELL:** County Bexar 6020 W Laguna (Street, RFD or other) S.A. (City) Tx (State) 78223 (Zip) **GRID #** 68 45-6

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

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

5)

6) **WELL LOG:** Date Drilling: Started 1-9 19 97 Completed 1-17 19 97

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
6-7/8	Surface	174

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

From (ft.)	To (ft.)	Description and color of formation material
0	5	Black Surface Soil
5	17	Caliche
17	92	Yellow Sand + Shale
92	174	Broken Blue Shale + Sand

(Use reverse side if necessary)

8) **Borehole Completion (Check):** ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval ... from 173 ft. to 93 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
4	N	PVC	18" above		
				174	40
		Perf. 80'			

9) **CEMENTING DATA** [Rule 338.44(1)]
Cemented from 0 ft. to 10 ft. No. of sacks used 8
ft. to ft. No. of sacks used
Method used Hand Mixed
Cemented by Hammett Water System
Distance to septic system field lines or other concentrated contamination 150 ft.
Method of verification of above distance Measured Tape

13) **TYPE PUMP:** ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 140 ft.

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

14) **WELL TESTS:** Type test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
Yield: ____ gpm with ____ ft. drawdown after ____ hrs.

11) **WATER LEVEL:** Static level 88 ft. below land surface Date 1-17-97
Artesian flow ____ gpm. Date

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

12) **PACKERS:** Type Depth

FILE ID SEC # DESC CD
Cement SEP 05 1997 WG

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

COMPANY NAME Hammett Water System (Type or print) **WELL DRILLER'S LICENSE NO.** WPL 1171

ADDRESS 12359 So. Hwy 181 #4 (Street or RFD) San Antonio (City) TX (State) 78223 (Zip)

(Signed) Victor Hammett (Licensed Well Driller) **(Signed)** ____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94) TNRCC COPY

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
9	1 of 1	ENE	0.47 / 2,497.84	J.B. King 11297 S. Foster Rd. San Antonio TX 78155	SDRW WELLS

Track NO: 194513
Date Submitted: 2009-09-28
Owner Name: J.B. King
Owner Address: 11297 S. Foster Rd.
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78155
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.306389
Longitude: -98.368611
Drilling Date Started: 2005-12-05
Drilling Date Completed: 2005-12-06
Chemical Analysis: No
Company Name: Deharde Water Well Service
Company Address: 1075 Schuenemann Rd
CompanyAddress2:
Company City: Seguin
Company State: TX
Company Zip: 78155
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=194513&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 305

Top Depth:
Bottom Depth: 322.0

Top Depth: 0
Bottom Depth: 322

Well Levels

Measurement: 86
Measurement Date: 2005-12-06

Well Strata

Water Type:

Bexar

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
10	1 of 1	E	0.49 / 2,578.19	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 06/09/1999
Owners Name: TIM POLLOCK
County: BEXAR
Water Usage: DOMESTIC
Static Level: 111
Depth Drilled: 333
Latitude: 29.30423207711163
Longitude: -98.36754476575541

Send original copy by certified return receipt requ[illegible]mail to: TDLR, P.O. Box 12157, Austin, TX 78711

ATTENTION OWNER: *Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)*

State of Texas
WELL REPORT

Texas Department of Licensing & Regulation
P.O. Box 12157
Austin, TX 78711
512-463-7880

1) OWNER Tim Pollock (Name) ADDRESS 11392 Box #2 S Foster Rd. San Antonio TX 78223 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL'S LOCATION: County Bexar Same As Above (Street, RFD or other) (City) (State) (Zip) Long. Lat. Grid # 68-46-4

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

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

5)

6) WELL LOG:
Date Drilling:
Started 6/8 1999
Completed 6/9 1999

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	333
7 7/8	Reamed	333

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

N

From (ft.)	To (ft.)	Description and color of formation material
0	2	sand
2	12	sandy red clay
12	50	white clay
50	115	blue clay
115	117	rock
117	130	sand
130	168	clay & sand streaks
168	169	rock
169	200	clay & sand streaks
200	202	rock
202	208	rock
208		sand

(Use reverse side of Well Owner's copy, if necessary)

8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other
If Gravel Packed give interval from 290 ft. to 330 ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	Plastic	0	331	Sch40
"	"	Screen Mfg. 20°	310	330	" "

9) CEMENTING DATA
Cemented from 0 ft. to 15 ft. No. of sacks used 1
ft. to ft. No. of sacks used
Method used
Cemented by Larry Deharde
Distance to septic system field lines or other concentrated contamination 120 ft.
Method of verification of above distance Wheel

13) ☒ Well plugged within 48 hours

Casing left in well: From (ft)	Casing left in well: To (ft)	Cement/bentonite placed in well: From (ft)	Cement/bentonite placed in well: To (ft)	Sacks used:

14) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., 180 ft.

10) SURFACE COMPLETION
☐ Specified Surface Slab Installed
☒ Specified Steel Sleeve Installed
☐ Pitless Adapter Used
☐ Approved Alternative Procedure Used

15) WELL TESTS:
Type test: ☐ Pump ☐ Bailer ☒ Jetted ☒ Estimated
Yield: 50 gpm ~~with~~ @ 250 ft. ~~drawdown after~~ ~~hrs.~~

11) WATER LEVEL:
Static level 111 ft. below land surface Date 6/9/99
Artesian flow gpm. Date

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

12) PACKERS:

Type	Depth
4 - sacks	Hole Plug 280'-290'

FILE ID SEQ
EMP # JUL 14 1999 2928 WPK
COMMENT

I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Deharde Water Well Service (Type or print) WELL DRILLER'S LICENSE NO.

ADDRESS 1075 Schuenemann Rd. (Street or RFD) Seguin (City) TX (State) 78155 (Zip)

(Signed) Larry Deharde (Licensed Well Driller)

(Signed) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDLR FORM 001WWD (4/98) White - TDLR Yellow - DRILLER Pink - WELL OWNER

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

Section 32.005 of the Texas Water Code, concerning confidential information in the Reporting of Well Logs, reads as follows:

> "Every licensed driller drilling, deepening or otherwise altering a water well within this State shall make and keep a legible and accurate well log in accordance with the department rule on forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department and to the owner of the well or the person for whom the well was drilled. Each copy of a well log, other than a department copy must include the name, mailing address, and telephone number of the department. The well log shall be recorded at the time of drilling, and must show the depth, thickness, and character of the strata penetrated, the location of water-bearing strata, the depth, size and character of casing installed, and any other information required by department rule. 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 or person for whom the well was drilled."

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
220	= clay	
222	= rock	
222	= sandy clay	
250	= rock	
333	= clay	
340	= sandy clay	
342	= sand	
360	= clay	

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
11	1 of 1	NW	0.50 / 2,664.71	GDRM 181 RLP 10842 GREEN LAKE DR SAN ANTONIO TX	SDRW WELLS

Track NO: 405835
Date Submitted: 2015-09-22
Owner Name: GDRM 181 RLP
Owner Address: 10575 WEST OFFICE DR
Owner Address2:
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77042
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Irrigation
Prop Use Oth Descr:
Latitude: 29.309461
Longitude: -98.385672
Drilling Date Started: 2015-08-18
Drilling Date Completed: 2015-08-23
Chemical Analysis: No
Company Name: KELTIC DRILLING LLC
Company Address: PO BOX 839
CompanyAddress2:
Company City: VON ORMY
Company State: TX
Company Zip: 78073
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=405835&Type=SDR-Well

Well Borehole Information

Top Depth:
Bottom Depth: 694.0

Top Depth: 0
Bottom Depth: 520

Top Depth: 520
Bottom Depth: 694

Well Levels

Measurement: 85
Measurement Date: 2015-08-23

Well Strata

Water Type:

NORMAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
12	1 of 1	E	0.51 / 2,685.00	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 08/24/1985
Owners Name: R. C. SCHUBERT
County: BEXAR
Water Usage: DOMESTIC
Static Level: 30
Depth Drilled: 130
Latitude: 29.304786915964346
Longitude: -98.36719869748185

1m: N1SL
1m: E1WL

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board P. O. Box 13087 Austin, Texas 78711

1) OWNER R. C. SCHUBERT (Name) Address 4119 WILLARD (Street or RFD) SAN ANTONIO (City) TX (State) 78228 (Zip)

2) LOCATION OF WELL: County BEXAR 2 miles in EAST (N.E., S.W., etc.) direction from 181 & FOSTER ROAD (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	130

Date drilled 8-24-85

From (ft.)	To (ft.)	Description and color of formation material
0	50	BROWN SAND & CLAY MIX
50	120	SAND & SHALE MIX
120	130	SAND

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 40 ft. to 130 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	N	PLASTIC	0	130	1/4"
5	N	PERFORATED	90	130	1/4"

CEMENTING DATA
Cemented from 0 ft. to 10 ft.
Method used _____
Cemented by SELF (Company or Individual)

9) WATER LEVEL:
Static level 30 ft. below land surface Date 8-28-85
Artesian flow _____ gpm. Date _____

10) PACKERS: Type N/A Depth

RECEIVED
SEP - 4 1986
TEXAS WATER COMMISSIO

11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 100 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☑ Bailer ☐ Jetted ☐ Estimated
Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

(Use reverse side if necessary)

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

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

COMPANY NAME LIVE OAK WATER WELL DRILLING (Type or Print) RT. 2. BOX 223 FLORESVILLE, TEXAS 78114 (512) 393-3786 Water Well Driller's License No. 2380

ADDRESS _____ (Street or RFD) (City) (State) (Zip)

(Signed) _____ (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 68-46-4
Located on map _____

TDWR-0392 (Rev. 5-27-82)

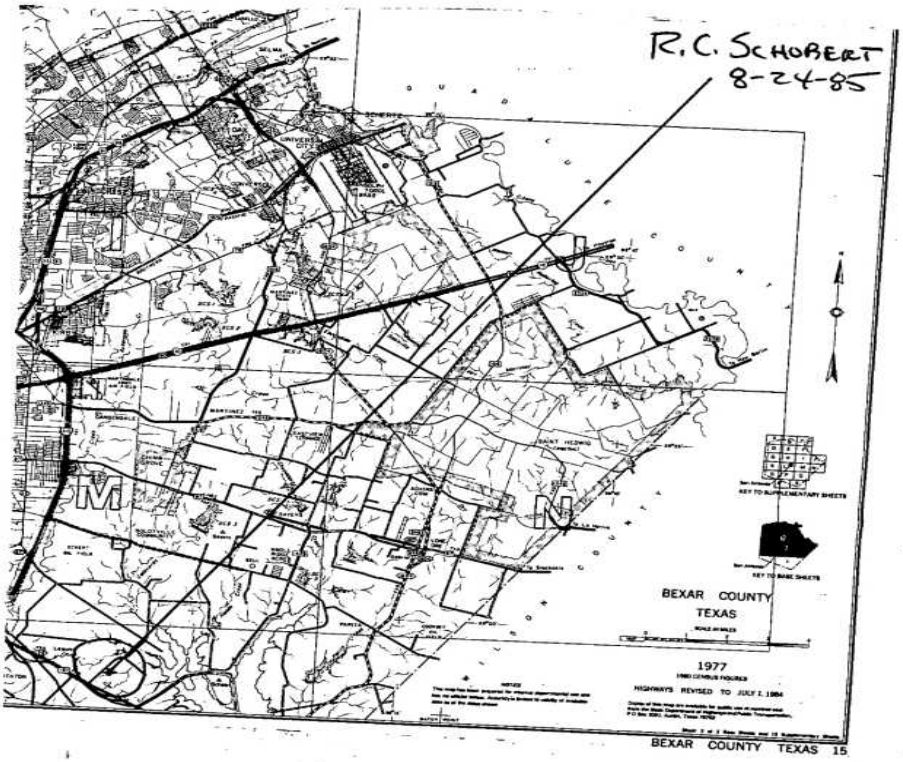
DEPARTMENT OF WATER RESOURCES COPY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
13	1 of 1	NW	0.54 / 2,863.78	RAY VARGAS 10842 GREEN LAKE DR SAN ANTONIO TX	SDRW WELLS

Track NO: 402557
Date Submitted: 2015-08-19
Owner Name: RAY VARGAS
Owner Address: 10575 WEST OFFICE DR
Owner Address2:
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77092
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Irrigation
Prop Use Oth Descr:
Latitude: 29.310001
Longitude: -98.385834
Drilling Date Started: 2015-06-08
Drilling Date Completed: 2015-06-12
Chemical Analysis: No
Company Name: KELTIC DRILLING LLC
Company Address: PO BOX 839
CompanyAddress2:
Company City: VON ORMY
Company State: TX
Company Zip: 78073
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=402557&Type=SDR-Well

Well Borehole Information

Top Depth:
Bottom Depth: 520.0

Top Depth: 0
Bottom Depth: 520

Well Levels

Measurement: 160
Measurement Date: 2015-06-12

Well Strata

Water Type:

NATURAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
14	1 of 1	W	0.56 / 2,935.10	ESTER EVERHART TX	TCEQ WELL LOGS

Grid No:	68-45-6
Date Drilled:	04/03/1993
Owners Name:	ESTER EVERHART
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	109
Depth Drilled:	145
Latitude:	29.303193
Longitude:	-98.38983

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Board
P.O. Box 13087
Austin, Texas 78711

1) OWNER Ester Everhart (Name) ADDRESS 10,951 181 S. (Street or RFD) S.A. (City) Tx. (State) 78226 (Zip)

2) LOCATION OF WELL: County Bexar . 8½ miles in S.E. (NE, SW, etc.) direction from San Antonio (Town)

Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ LEGAL DESCRIPTION:
Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☑ SEE ATTACHED MAP

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering

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

6) WELL LOG:
Date Drilling: Started 4-3 1993 Completed 4-5 1993

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
8¼	Surface	145

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☑ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 125 ft. to 145 ft.

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface
2	38	Sandy Clay
38	112	Shale
112	145	Sand

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
8¼	N	Plastic	0	145	
			125	145	Slotted

RECEIVED MAY 10 1993 TEXAS WATER COMMISSION

(Use reverse side if necessary)

9) CEMENTING DATA [Rule 287.44(1)]
Cemented from 0 ft. to 10 ft. No. of Sacks Used 24
_____ ft. to _____ ft. No. of Sacks Used _____
Method used Surface Pour
Cemented by Self

10) SURFACE COMPLETION
☑ Specified Surface Slab Installed [Rule 287.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)]
☐ Pitless Adapter Used [Rule 287.44(3)(B)]
☐ Approved Alternative Procedure Used [Rule 287.71]

11) WATER LEVEL:
Static level 109 ft. below land surface Date 4-5-93
Artesian flow _____ gpm. Date _____

12) PACKERS: None Type Depth

13) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 120 ft.

14) WELL TESTS:
Type Test: ☑ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 12 gpm with 0 ft. drawdown after 24 hrs.

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

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

COMPANY NAME D&S Drilling (Type or print) WELL DRILLER'S LICENSE NO. 3067 W.

ADDRESS Rt. 7 Box 417C (Street or RFD) S.A. (City) Tx. (State) 78221 (Zip)

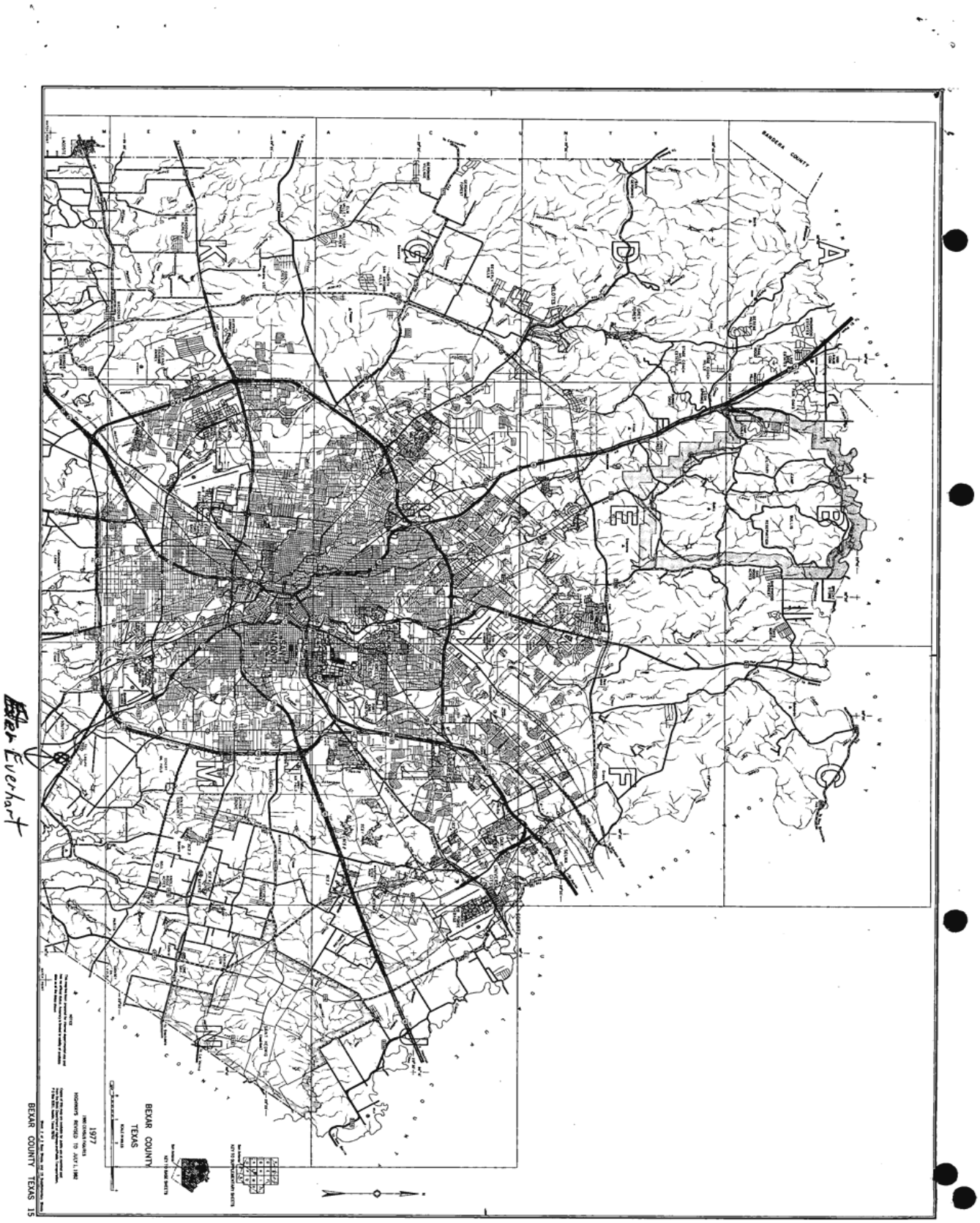
(Signed) Donna Calloway (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TWC use only: Well No. _____ Located on map 68-95-6

TWC-0199 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY


BEXAR COUNTY
TEXAS
1977
BEXAR COUNTY TEXAS 15

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
15	1 of 1	E	0.59 / 3,100.87	Edward Fernandez 11080 South Foster Rd San Antonio TX 78223	SDRW WELLS

Track NO: 555669
Date Submitted: 2020-10-07
Owner Name: Edward Fernandez
Owner Address: 11415 Bluewing Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.3059
Longitude: -98.366
Drilling Date Started: 2020-09-23
Drilling Date Completed: 2020-10-01
Chemical Analysis: No
Company Name: Thomas Moy and Sons Water Well Drilling Inc.
Company Address: 12323 N. St. Hwy. 123
CompanyAddress2:
Company City: Falls City
Company State: TX
Company Zip: 78113
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=555669&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 320

Top Depth:
Bottom Depth: 320.0

Well Levels

Measurement: 112
Measurement Date: 2020-10-01

Well Strata

Water Type:

Fresh

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
16	1 of 1	ENE	0.64 / 3,402.07	Edwardo Hernandez 11080 S. Foster Rd. San Antonio TX 78223	SDRW WELLS

Track NO: 344418
Date Submitted: 2013-10-24
Owner Name: Edwardo Hernandez
Owner Address: 11080 S. Foster Rd.
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.306945
Longitude: -98.365278
Drilling Date Started: 2013-10-20
Drilling Date Completed: 2013-10-23
Chemical Analysis: No
Company Name: TJ&TB Drilling
Company Address: 344 CR 305
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=344418&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 300

Top Depth:
Bottom Depth: 300.0

Well Levels

Measurement: 96
Measurement Date: 2013-10-24

Well Strata

Water Type:

WILCOX

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
17	1 of 1	W	0.68 / 3,603.06	DONALD COUER TX	TCEQ WELL LOGS

Grid No:	68-45-6S
Date Drilled:	09/06/1977
Owners Name:	DONALD COUER
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	112
Depth Drilled:	204
Latitude:	29.303494
Longitude:	-98.391913

68-45-65

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

State of Texas

WATER WELL REPORT

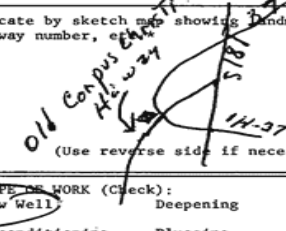
For TWDB use only
Well No. 68-45-65
Located on map yes
Received: 77
dlr

1) OWNER:
Person having well drilled Donald Cowen (Name) Address (Street or RFD) San Antonio - Texas (City) (State)

Landowner Same (Name) Address (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Bexar, 8 miles in South (N.E., S.W., etc.) direction from San Antonio (Town)

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



(Use reverse side if necessary)

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

Labor _____ League _____
Block _____ Survey _____
Abstract No. _____
(NW¼ NE¼ SW¼ SE¼) of Section _____

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

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

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

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 204 ft. Depth of completed well 204 ft. Date drilled Sept 6, 1977
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0	15	Surface
15	22	Shale
22	65	Sand w/ shale streaks
65	80	Tight sand.
80	96	Shale w/ sand streaks
96	99	good sand.
99	110	Shale w/ sand streaks
110	135	firm sand.
135	169	Shale w/ sand streaks
169	175	Shale
175	204	good Sand.

(Use reverse side if necessary)

9) Casing:
Type: Old (New) Steel (Plastic) Other
Cemented from 0 ft. to 90 ft.

Diameter (inches)	Setting From (ft.)	To (ft.)	Gage
5"	0	204	

Basket set at 90 ft.
60' perforation 144-204

10) SCREEN:
Type _____
Perforated Slotted

Diameter (inches)	Setting From (ft.)	To (ft.)	Slot Size

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

8) WATER LEVEL:
Static level 112 ft. below land surface Date 9-6-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.
below land surface.

11) WELL TESTS:
Was a pump test made? Yes (No) If yes, by whom?
Yield: 25 gpm with 30 ft. drawdown after 3 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes (No)
Did any strata contain undesirable water? Yes (No)
Type of water? _____ depth of strata _____

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766

ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State)

(Signed) Fernando E Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TWDBE-WD-6

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
18	1 of 1	SE	0.70 / 3,670.46	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 03/28/1984
Owners Name: TEXAS ICE HOUSE
County: BEXAR
Water Usage: DOMESTIC
Static Level: 96
Depth Drilled: 300
Latitude: 29.295758561502456
Longitude: -98.36803527472976

Send original copy by certified mail to the
Texas Department of Water Resources
P. O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER Texas Ice House (Name) Address 12291 Hi Way 181 S (Street or RFD) SA (City) Texas (State) 78223 (Zip)

2) LOCATION OF WELL: County Bexar 12 miles in SE (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:
Date drilled 3-28-84

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7⅞	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	13	Clay
13	22	Sand
22	49	Shale
49	50	Rock
50	79	Sand
79	101	Shale
101	149	Sand
149	153	Rock
153	179	Sand
179	215	Sand
215	237	Sandy Shale
237	263	Shale
263	300	gard Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☑ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mat., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	Plastic Sch 40	0	300	
		Slotted	240	300	

CEMENTING DATA
Cemented from 240 ft. to 260 ft.
Method used Pump
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 96 ft. below land surface Date 3-24-84
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Halliburton Basket Depth 260'

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DEC 10 1987
(Use reverse side if necessary)

11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 70 gpm with 20 ft. drawdown after 5 hrs.

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

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766
ADDRESS 309 W. Hutchins San Antonio Texas 78221 (Street or RFD) (City) (State) (Zip)
(Signed) Fernando E Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)
DEPARTMENT OF WATER RESOURCES COPY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

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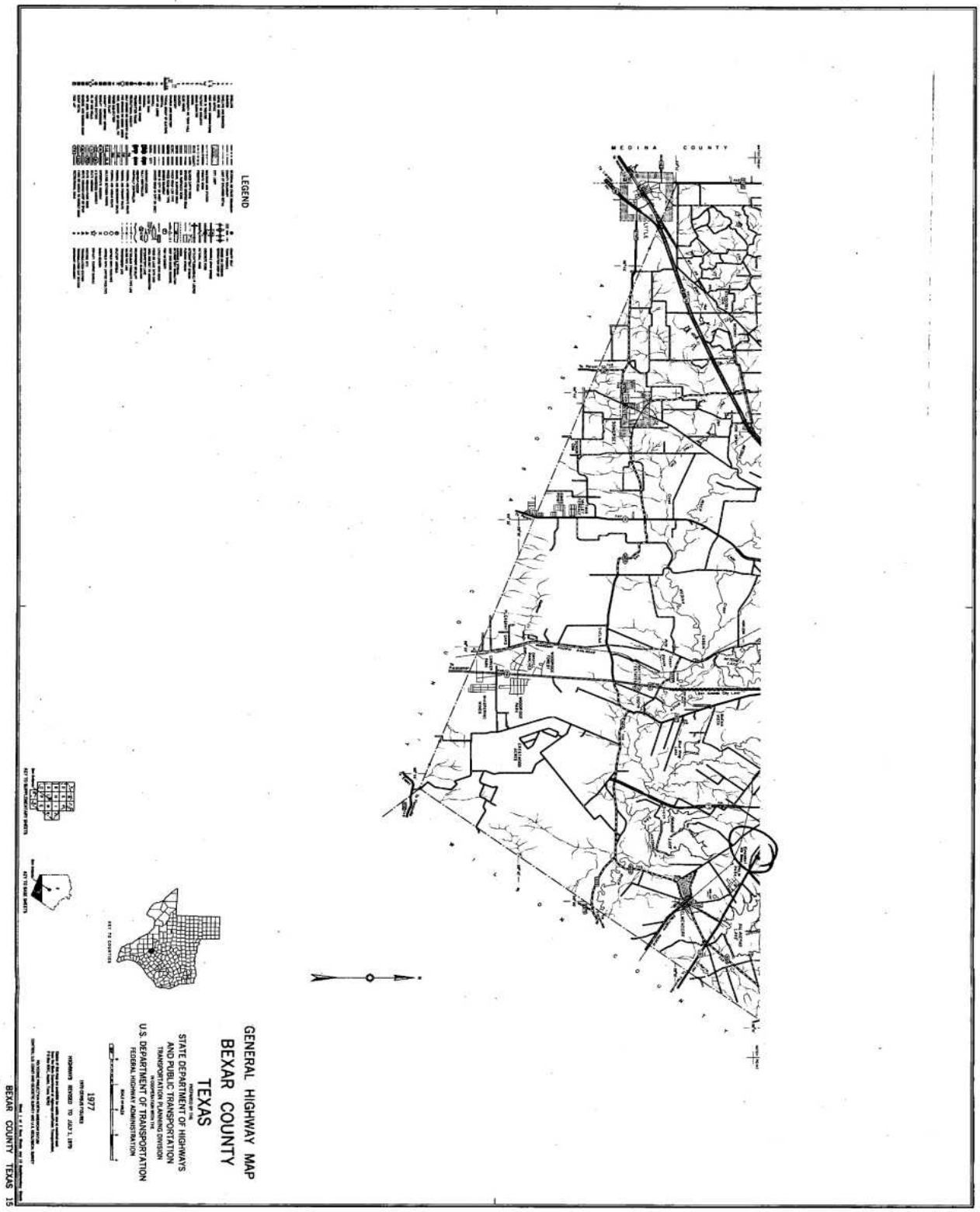
> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).


LEGEND
MEDINA COUNTY
GENERAL HIGHWAY MAP
BEXAR COUNTY
TEXAS
STATE DEPARTMENT OF HIGHWAYS
AND PUBLIC TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
1977
HIGHWAYS REVISED TO JULY 1, 1976
BEXAR COUNTY TEXAS 15

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
19	1 of 1	ENE	0.73 / 3,855.89	Jaun Hernandez 11080 S.Foster Rd San Antonio TX 78223	SDRW WELLS

Track NO: 343769
Date Submitted: 2013-10-17
Owner Name: Jaun Hernandez
Owner Address: 11080 S.Foster Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.307223
Longitude: -98.363889
Drilling Date Started: 2013-10-11
Drilling Date Completed: 2013-10-16
Chemical Analysis: No
Company Name: TJ & TB DRILLING
Company Address: 344 County rd 305
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=343769&Type=SDR-Well

Well Borehole Information

Top Depth: 0
Bottom Depth: 290

Top Depth:
Bottom Depth: 290.0

Well Levels

Measurement: 100
Measurement Date: 2013-10-17

Well Strata

Water Type:

wilcox

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	1 of 2	ESE	0.74 / 3,900.76	Wester Trails WSC TX	GWDB

Well Rep Track No:	
State Well NO:	6846401
Owner Name:	Wester Trails WSC
Drilling Start Dt:	
Drilling Month:	
Drilling Day:	
Drilling Year:	
Well Depth:	400
Well Usage:	
Water Level Status:	
Latitude:	29.2983340
Longitude:	-98.3652780
Data Source:	Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations
Well Info Report:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6846401&Type=GWDB
Document Link:	https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6846401&Cnty=Bexar

Texas Water Development Board
Well Schedule

groundwater resources

State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**

Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**

Owner: **Wester Trails WSC** Driller:

Aquifer ID: **Carrizo-Wilcox**

Aquifer Code: **124CRRZ**

CARRIZO SAND

Depth (ft): **400** Elevation (ft): **577**

Source of Depth: **Another Government Agency** Source of Elevation: **Interpolated From Topo Map**

Date Drilled: Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: Completion:

Casing Material: Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

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

WATER USE

Primary: Secondary: Tertiary:

Water Levels: **None** Water Quality: **N**

Other Data: Logs:

REMARKS:
Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **09/03/2009**

Recorded by: D R Jones

Thursday, September 03, 2009 State Well Number: **68-46-401**
New

Texas Water Development Board
Well Schedule

groundwater resources

State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**

Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**

Owner: **Wester Trails WSC** Driller:

Aquifer ID: **Carrizo-Wilcox**

Aquifer Code: **124CRRZ**

CARRIZO SAND

Depth (ft): **400** Elevation (ft): **577**

Source of Depth: **Another Government Agency** Source of Elevation: **Interpolated From Topo Map**

Date Drilled: Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: Completion:

Casing Material: Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

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

WATER USE

Primary: Secondary: Tertiary:

Water Levels: **None** Water Quality: **N**

Other Data: Logs:

REMARKS:
Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **09/03/2009**

Recorded by: D R Jones

Thursday, September 03, 2009 State Well Number: **68-46-401**
New

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	2 of 2	ESE	0.74 / 3,900.76	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 06/04/1965
Owners Name: AL THOMS
County: BEXAR
Water Usage: MUNICIPAL
Static Level: NOT REPORTED
Depth Drilled: 180
Latitude: 29.29846143577288
Longitude: -98.36560653446588

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB

File original copy with
Texas Water Commission
P. O. Box 12311, Capitol Station
Austin, Texas 78711

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 68-46-48
Located on map
By RJ Date 4/65
Map no. 15(2)

1) Well Owner: AL Thoms 2584 S. W.W White San Antonio Tex
Name Street or RFD City State

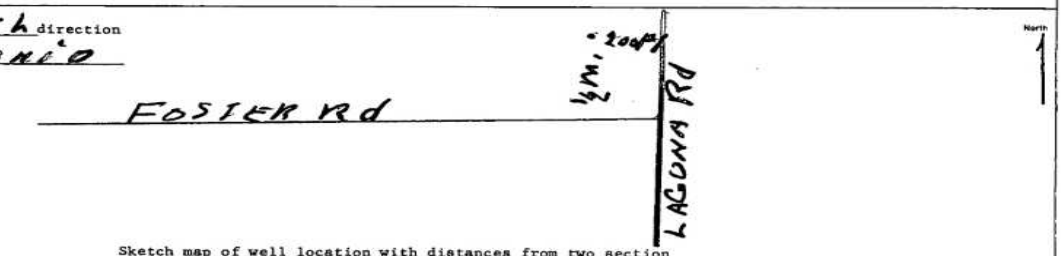
2) Land Owner:
Name Street or RFD City State

3) Intended use: Industrial ☐ Municipal ☑ Irrigation ☐ Other

4) Location of well: County BEXAR Labor League Abstract No.

NW¼ NE¼ SW¼ SE¼ (Circle as many as are known) of Section Block No. Survey

5 miles in South direction (NE, SW, etc.)
from SAN ANTONIO (Town)



Sketch map of well location with distances from two section or survey lines, and to landmarks, roads, and creeks.

DRILLERS LOG OF WELL

Method of drilling: ROTARY Diameter of hole 8 in. Date drilled 6-4-65

All measurements made from ft. above ground level.

From (ft)	To (ft)	Description and color of formation material	From (ft)	To (ft)	Description and color of formation material
0	5	HARDPAN.			
5	50	SANDY STREAKS & SHALE			
50	90	SHALE			
90	100	SAND, W.			
100	155	SHALE			
155	180	SAND, W.			

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION
Straight wall ☐
Under reamed ☐
Gravel packed ☑
Open hole ☐
Other

CASING
Type: Old ☑ New ☐
Cemented from NONE ft.
to ft.

Diameter (inches)	Setting from (ft)	Setting to (ft)
5½	SURFACE	180

SCREEN
Type 5½ OD STEEL P.
Perforated ☐ Slotted ☑

Diameter (inches)	Setting from (ft)	Setting to (ft)
5½	160	180

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

Fred M. Ashley (Signature) Ashley Well Drlg & Ser (Company Name) Reg. No. 303

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level 90 ft.
ft. below SURFACE

Pumping level

feet	hours	gpm

Pump type
Designed pumping rate NO TEST gpm ☐ gph ☐
Type power unit
Horsepower
Depth to bowls, cylinder, jet, etc., ft. below pump base.

Name of contractor testing well or installing permanent pump if other than your company:
POWER NOT AVAILABLE

C-34 (62-4)

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
21	1 of 1	ENE	0.81 / 4,273.74	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 08/07/1989
Owners Name: JOHN WEBB
County: BEXAR
Water Usage: DOMESTIC
Static Level: 131
Depth Drilled: 300
Latitude: 29.31020207761017
Longitude: -98.36381247190941

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-46-4
Located on map
Received:

1) OWNER John Webb (Name) Address 10795 So Foster Rd. San Antonio, Tx. 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar ½ miles in Sw (N.E., S.W., etc.) direction from Hilltop Txx (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines 181 So and Foster Rd.

#3. ☐ See attached map. 0768-45-6

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

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 8/7/89

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6½	Surface	300

From (ft.)	To (ft.)	Description and color of formation material
0	2	Surface soil
2	62	Red Shale
62	64	Rock
64	100	Broken brown shale & Sand
100	146	Grey Sand
146	174	Grey shale w/ sand streaks
174	185	Blue sand
185	187	Rock
187	189	Blue shale
189	191	Rock
191	218	Blue shale
218	264	Grey sand and shale
264	298	Grey sand
298	300	Blue shale

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from 200 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
4	N	PVC	18 Above	300	40

CEMENTING DATA
Cemented from 0 ft. to 20 ft.
Method used Hand mixed
Cemented by Hammett Water System (Company or Individual)

9) WATER LEVEL:
Static level 131 ft. below land surface Date 8/7/89
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

RECEIVED
OCT 3 1990
TEXAS WATER COMMISSION

(Use reverse side if necessary)

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 252 ft.

12) WELL TESTS: ☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 90 gpm with 0 ft. drawdown after 5 hrs.

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

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

NAME Victor E., Hammett (Type or Print) Water Well Drillers Registration No. 1171

ADDRESS 12359 S. Hwy. 181 #4 (Street or RFD) San Antonio Texas (City) (State) 78223 (Zip)

(Signed) Victor Hammett (Water Well Driller) Hammett Water System (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79) DEPARTMENT OF WATER RESOURCES COPY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING PRIVILEGE OF CONFIDENTIALITY

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

> "Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
22	1 of 1	WNW	0.89 / 4,677.39	JOE KUNZE TX	TCEQ WELL LOGS

Grid No:	68-45-6T
Date Drilled:	06/29/1982
Owners Name:	JOE KUNZE
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	92
Depth Drilled:	240
Latitude:	29.308568
Longitude:	-98.39382

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-617
Located on map 4QS
Received: C-F-S.

1) OWNER Joe Kunze (Name) Address Rt 12, Box 344 (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE. (N.E., S.W., etc.) direction from San Antonio (Town)
well # 2

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

Date drilled 6-29-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6 3/4	Surface	240

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	30	Caliche white
30	70	Sandy Shale
70	81	Shale
81	82	Rock
82	87	Sand
87	89	Rock
89	105	Sandy Shale
105	130	Shale w/ Shale Stks
130	137	Shale
137	144	Sand
144	151	Shale
151	155	Sand
155	182	Shale
182	198	Sand
198	201	Rock
201	240	Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☑ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	240	
		Slotted 40'			

CEMENTING DATA
Cemented from 0 ft. to 170 ft.
Method used Pumped
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 92 ft. below land surface Date 6-29-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 170

RECEIVED
AUG 26 1982
DEPT. OF WATER RESOURCES

(Use reverse side if necessary)

11) TYPE PUMP:
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 90 gpm with 30 ft. drawdown after 3 hrs.

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

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

NAME Fernando F. Galindo (Type or Print) Water Well Drillers Registration No. 1766

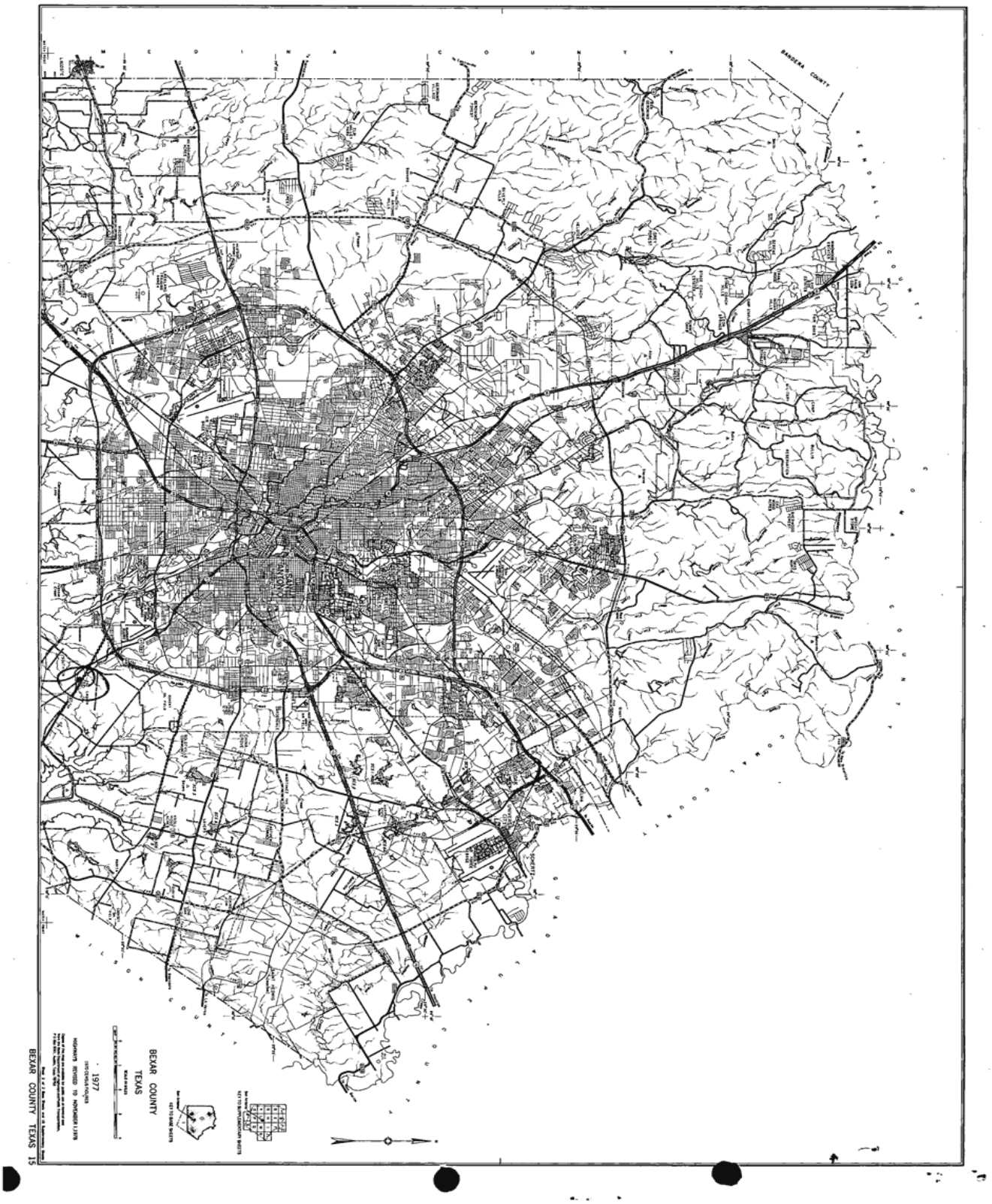
ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

(Signed) Fernando F. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY


BEXAR COUNTY
TEXAS
1977
BEXAR COUNTY TEXAS 15

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
23	1 of 1	WNW	0.97 / 5,106.79	LUTHER TOWNSEND TX	TCEQ WELL LOGS

Grid No:	68-45-6C
Date Drilled:	08/20/1982
Owners Name:	LUTHER TOWNSEND
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	90
Depth Drilled:	220
Latitude:	29.309099
Longitude:	-98.395024

DUP

Send orig... by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-6C
Located on map yes
Received: 8.25.83

1) OWNER Luther Townsend (Name) Address Rt 1, Box 357CA (Street or RFD) San Antonio (City) Texas (State) 78223 (Zip)

2) LOCATION OF WELL: County Bexar 6 miles in S.E. (N.E., S.W., etc.) direction from San Antonio (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:

Date drilled 8-20-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	220'

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	20	Sand Shale
20	50	Shale
50	70	Sandy Shale
70	111	Shale
111	113	Rock
113	141	Sandy Shale
141	145	Sand
145	147	Rock
147	150	Sand
150	160	Rock
160	190	Sand
190	192	Rock
192	220	Sand

7) BOREHOLE COMPLETION: ☐ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	220'	
		40' Perforations	180	220	

CEMENTING DATA
Cemented from 70 ft. to 100 ft.
Method used Pumped
Cemented by Ace Pump Co (Company or Individual)

9) WATER LEVEL:
Static level 90 ft. below land surface Date 8-20-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 100

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DEPT. OF WATER RESOURCES

11) TYPE PUMP: ☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

(Use reverse side if necessary)

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☑ Jetted ☐ Estimated
Yield: 80 gpm with 30 ft. drawdown after 3 hrs.

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1766

ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

(Signed) Fernando E. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY


BANDERA COUNTY
BEXAR COUNTY
TEXAS
1977
BEXAR COUNTY TEXAS 15

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
24	1 of 1	WNW	0.97 / 5,131.46	JOE KUNZE TX	TCEQ WELL LOGS

Grid No:	68-45-6T
Date Drilled:	08/20/1982
Owners Name:	JOE KUNZE
County:	BEXAR
Water Usage:	DOMESTIC
Static Level:	91
Depth Drilled:	220
Latitude:	29.30776
Longitude:	-98.395757

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

For TDWR use only
Well No. 68-45-6T
Located on map 465
Received: C.F.S.

1) OWNER Joe. Kunze (Name) Address Rt 12, Box 344 (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE (N.E., S.W., etc.) direction from San Antonio (Town)
Well #3

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

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

4) PROPOSED USE (Check): ☑ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

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

6) WELL LOG:
Date drilled 8-20-82

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
6¼	Surface	220

From (ft.)	To (ft.)	Description and color of formation material
0	6	Surface
6	15	Caliche, White
15	35	Caliche, Yellow
35	49	Caliche, Red
49	65	Shale
65	77	Shale w/ Sand Stks
77	105	Sand
105	108	Rock
108	119	Shale w/ Sand Stks
119	123	Rock
123	146	Shale
146	173	Sand
173	179	Shale
179	206	Sand
206	220	Sand

7) BOREHOLE COMPLETION: ☑ Open Hole ☑ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
5	New	PVC Sch 40	0	220	
		Slotted 40	180	220	

CEMENTING DATA
Cemented from 0 ft. to 180 ft.
Method used Pumped
Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL:
Static level 91 ft. below land surface Date 8-2-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 130

RECEIVED
AUG 26 1982
DEPT. OF WATER RESOURCES
(Use reverse side if necessary)

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

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 100 gpm with 30 ft. drawdown after 3 hrs.

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

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

NAME Fernando E. Galindo (Type or Print) Water Well Drillers Registration No. 1764
ADDRESS 309 W. Hutchins (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)
(Signed) Fernando E. Galindo (Water Well Driller) Ace Pump Co. (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

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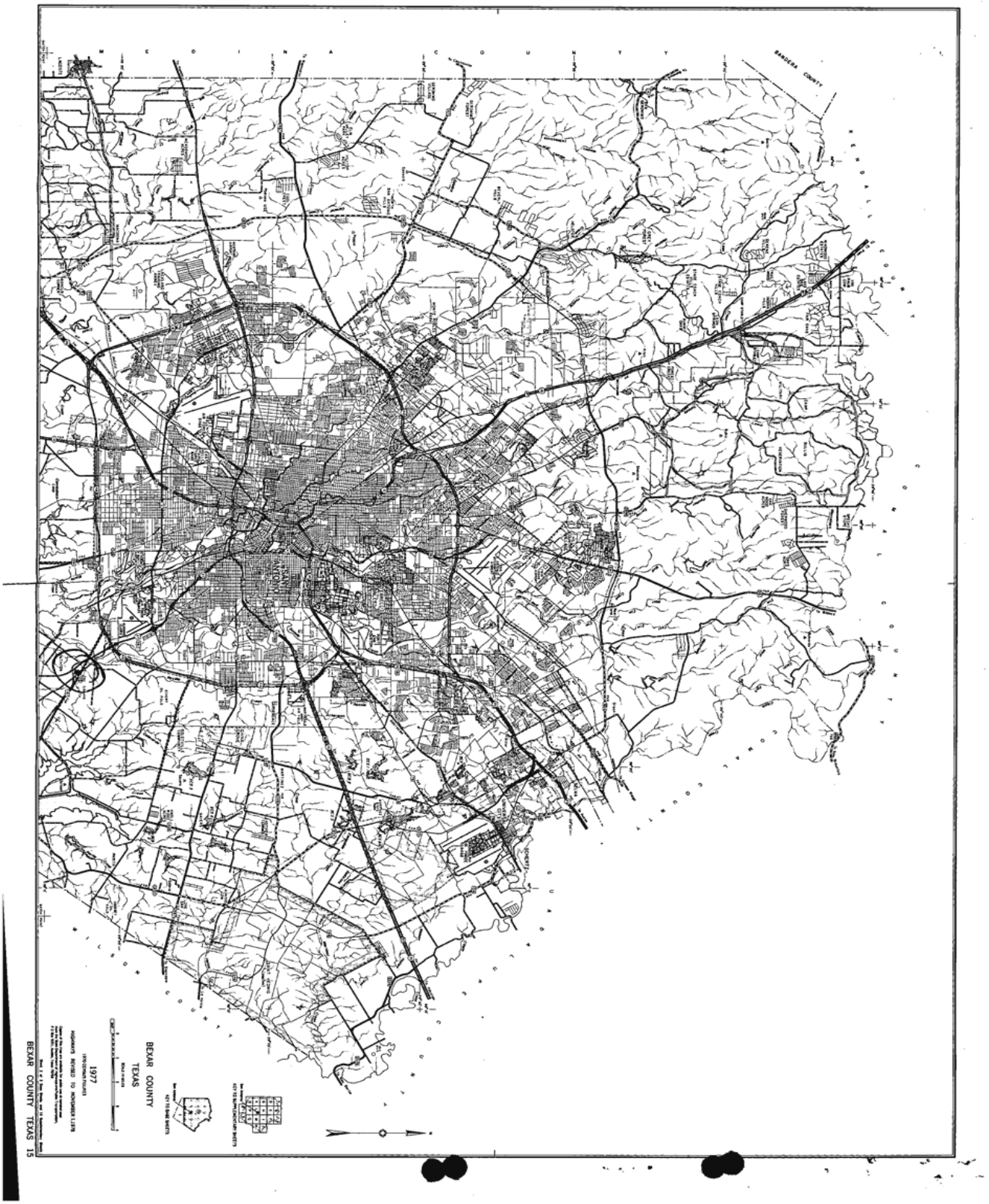
DEPARTMENT OF WATER RESOURCES COPY


BEXAR COUNTY
TEXAS
1977
BEXAR COUNTY TEXAS 15

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update.

Federal

Wells from NWIS: FED USGS

The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIW dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

Government Publication Date: Mar 21, 2022

State

Well Log Reports from Plotted Water Wells: TCEQ WELL LOGS

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been manually verified.

Government Publication Date: Jul 26, 2022

Select Wells from SDR: SDRW WELLS

Locations of wells from the Submitted Drillers Report (SDR) Database with select proposed usage: Domestic, Fracking Supply, Industrial, Irrigation, Other, Public Supply, Rig Supply, Stock, Unknown. SDR is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS), a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well.

Government Publication Date: Mar 6, 2023

Groundwater Database: GWDB

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality.

Government Publication Date: Oct 19, 2022

Fort Bend Subsidence District Water Wells: WW FORT BEND

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes.

Government Publication Date: Nov 18, 2022

High Plains Water Wells: WW HIGH PLAINS

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area.

Government Publication Date: Apr 20, 2022

Harris Galveston Subsidence District Water Wells: WW HARRIS GAL

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

Government Publication Date: Nov 18, 2022

Water Utility Database: WUD

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Government Publication Date: Oct 1, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Attachment M

Soil Map, Information, Analyses and Annual Cropping Plan

BRAUN INTERTEC

Annual Cropping Plan

The sub-surface land application area is undeveloped land, restricted from public access, located adjacent to the mobile home park residences. Only native grasses are grown, no crops are harvested. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. A site map indicating the location of the sub-surface irrigation area is provided in **Attachment H**.

a. 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 map of the native soils is provided in **Attachment M**. No crops are grown or harvested.

b. *All types of crops and acreage irrigated for each crop, including warm and cool season crops*. No crops are grown or harvested, only native grasses. The irrigation acreage is 2.18 acres.

c. *Crop yield goals or estimates.* No crops are grown or harvested, only native grasses. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.

d. *Growing seasons for each crop including months the field is left fallow (no crops)*. No crops are grown or harvested, only native grasses. Native grasses cover the entire area year-long.

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*. No crops are grown or harvested, only native grasses. No fertilizers are applied to the irrigation area. See **Attachment M** for results of soil analyses. The soil analyses did not specify the need for addition of any fertilizers.

f. *Provide the minimum and maximum harvest height for the crop (e.g., mowing height of grasses). No crops are grown or harvested, only native grasses*.#The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.

g. *Supplemental watering requirements for each crop*. No additional watering is provided for the irrigation area. All required water is provided through precipitation and sub-surface irrigation.

h. *Salt tolerances of each crop*. No crops are grown or harvested, only native grasses. The salt tolerance is assumed to be similar to Bermuda Grass.

i. *Describe the harvesting method and the proposed number of harvests for each crop*. No crops are grown or harvested, only native grasses. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.

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*. The site is existing native vegetation that is not harvested but mown on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. The site has been in operation as originally constructed since the early 1980's. Soil analyses are provided in **Attachment M** and indicate that the site soil salinity and SAR levels are low, indicating that nutrients are not appreciatively accumulating in the application area.

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 viginiana) 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. **Not Applicable, not a drip irrigation system.**#

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: http://soiltesting.tamu.edu

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635406
Customer Sample ID: BM-01 0-6"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.6	(5.8)	-	Slightly Alkaline						
Conductivity	95	(-)	umho/cm	None						Fertilizer Recommended
Nitrate-N	14	(-)	ppm**							
Phosphorus	31	(0)	ppm							
Potassium	398	(0)	ppm							
Calcium	3,375	(180)	ppm							
Magnesium	215	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	23	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

CL*

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.8		
			Conductivity	0.77	mmhos/cm	
			Sodium	27	ppm	1.196 meq/L
			Potassium	37	ppm	0.948 meq/L
			Calcium	110	ppm	5.476 meq/L
TKN	1229	ppm	Magnesium	11	ppm	0.878 meq/L
TN	1514	ppm	SAR	0.67		
Ammonium-N	4.5	ppm	SSP	14.07		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635407
Customer Sample ID: BM-01 6-18"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.7	(5.8)	-	Mod. Alkaline						
Conductivity	122	(-)	umho/cm	None			CL*			Fertilizer Recommended
Nitrate-N	8	(-)	ppm**							
Phosphorus	5	(0)	ppm							
Potassium	292	(0)	ppm							
Calcium	3,730	(180)	ppm							
Magnesium	291	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	58	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

Detailed Salinity Test (Saturated Paste Extract)			
pH	7.0		
Conductivity	0.53	mmhos/cm	
Sodium	44	ppm	1.910 meq/L
Potassium	14	ppm	0.355 meq/L
Calcium	32	ppm	1.599 meq/L
Magnesium	4	ppm	0.368 meq/L
SAR	1.93		
SSP	45.15		

TKN	639	ppm
TN	784	ppm
Ammonium-N	3.1	ppm

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Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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TEXAS A&M AGRILIFE EXTENSION

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635408
Customer Sample ID: BM-01 18-30"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow / VLow / Low / Mod / High / VHigh / Excess.	Fertilizer Recommended
pH	7.8	(5.8)	-	Mod. Alkaline	
Conductivity	946	(-)	umho/cm	Moderate	
Nitrate-N	3	(-)	ppm**		
Phosphorus	0	(0)	ppm		
Potassium	175	(0)	ppm		
Calcium	6,201	(180)	ppm		
Magnesium	428	(50)	ppm		
Sulfur	534	(13)	ppm		
Sodium	264	(-)	ppm		
Iron					
Zinc					
Manganese					
Copper					
Boron					
Limestone Requirement					

Detailed Salinity Test (Saturated Paste Extract)

			pH	6.9		
			Conductivity	3.61 mmhos/cm		
			Sodium	205 ppm	8.900	meq/L
			Potassium	19 ppm	0.487	meq/L
			Calcium	550 ppm	27.448	meq/L
TKN	483	ppm	Magnesium	62 ppm	5.078	meq/L
TN	640	ppm	SAR	2.21		
Ammonium-N	2.6	ppm	SSP	21.23		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

ProAnalysisVer. 2.19i

Soil Analysis Report

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College Station, TX 77843-2478
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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635409
Customer Sample ID: BM-02 0-6"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Neutral						
Conductivity	125	(-)	umho/cm	None						Fertilizer Recommended
Nitrate-N	7	(-)	ppm**	IIIIII						
Phosphorus	58	(0)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Potassium	303	(0)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Calcium	3,685	(180)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Magnesium	217	(50)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sulfur	35	(13)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sodium	16	(-)	ppm	III						
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

CL*

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.6		
			Conductivity	0.79	mmhos/cm	
			Sodium	23	ppm	0.991 meq/L
			Potassium	26	ppm	0.669 meq/L
			Calcium	110	ppm	5.476 meq/L
TKN	1518	ppm	Magnesium	12	ppm	0.952 meq/L
TN	1968	ppm	SAR	0.55		
Ammonium-N	4.8	ppm	SSP	12.25		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635410
Customer Sample ID: BM-02 6-18"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.3	(5.8)	-	Slightly Alkaline						
Conductivity	64	(-)	umho/cm	None				CL*		Fertilizer Recommended
Nitrate-N	3	(-)	ppm**							
Phosphorus	36	(0)	ppm							
Potassium	166	(0)	ppm							
Calcium	2,645	(180)	ppm							
Magnesium	200	(50)	ppm							
Sulfur	25	(13)	ppm							
Sodium	30	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.7		
			Conductivity	0.52	mmhos/cm	
			Sodium	30	ppm	1.312 meq/L
			Potassium	10	ppm	0.266 meq/L
			Calcium	50	ppm	2.511 meq/L
TKN	684	ppm	Magnesium	7	ppm	0.548 meq/L
TN	849	ppm	SAR	1.06		
Ammonium-N	4.3	ppm	SSP	28.29		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635411
Customer Sample ID: BM-02 18-30"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.3	(5.8)	-	Slightly Alkaline						
Conductivity	144	(-)	umho/cm	None			CL*			Fertilizer Recommended
Nitrate-N	4	(-)	ppm**	III						
Phosphorus	6	(0)	ppm	IIIIIIIIII						
Potassium	174	(0)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Calcium	3,182	(180)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Magnesium	407	(50)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sulfur	29	(13)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sodium	83	(-)	ppm	IIIIIIIIIIIIIIIII						
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.6		
			Conductivity	0.53	mmhos/cm	
			Sodium	39	ppm	1.703 meq/L
			Potassium	5	ppm	0.133 meq/L
			Calcium	37	ppm	1.866 meq/L
TKN	368	ppm	Magnesium	6	ppm	0.464 meq/L
TN	741	ppm	SAR	1.58		
Ammonium-N	3.5	ppm	SSP	40.88		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Analysis Report

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635412
Customer Sample ID: ALF-1N 0-6"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	**7.3**	(5.8)	-	**Slightly Alkaline**						
Conductivity	**325**	(-)	umho/cm	**None**				CL*		**Fertilizer Recommended**
Nitrate-N	**14**	(-)	ppm**							
Phosphorus	**34**	(0)	ppm							
Potassium	**425**	(0)	ppm							
Calcium	**4,757**	(180)	ppm							
Magnesium	**376**	(50)	ppm							
Sulfur	**54**	(13)	ppm							
Sodium	**26**	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	**6.6**		
			Conductivity	**1.39**	mmhos/cm	
			Sodium	**27**	ppm	**1.188** meq/L
			Potassium	**38**	ppm	**0.975** meq/L
			Calcium	**198**	ppm	**9.861** meq/L
TKN	**458**	ppm	**Magnesium**	**25**	ppm	**2.053** meq/L
TN	**2469**	ppm	**SAR**	**0.49**		
Ammonium-N	**6.4**	ppm	**SSP**	**8.44**		

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Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635413
Customer Sample ID: ALF-1N 6-18"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow VLow Low Mod High VHigh Excess.
pH	7.5	(5.8)	-	Slightly Alkaline
Conductivity	178	(-)	umho/cm	None — Fertilizer Recommended
Nitrate-N	8	(-)	ppm**	
Phosphorus	21	(0)	ppm	
Potassium	211	(0)	ppm	
Calcium	3,724	(180)	ppm	
Magnesium	379	(50)	ppm	
Sulfur	48	(13)	ppm	
Sodium	66	(-)	ppm	
Iron				
Zinc				
Manganese				
Copper				
Boron				
Limestone Requirement				

TKN	1545	ppm
TN	679	ppm
Ammonium-N	3.5	ppm

Detailed Salinity Test (Saturated Paste Extract)

pH	6.9		
Conductivity	1.03	mmhos/cm	
Sodium	44	ppm	1.905 meq/L
Potassium	11	ppm	0.282 meq/L
Calcium	99	ppm	4.931 meq/L
Magnesium	14	ppm	1.138 meq/L
SAR	1.09		
SSP	23.07		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Analysis Report

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635414
Customer Sample ID: ALF-1N 18-30"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow / VLow / Low / Mod / High / VHigh / Excess.	
pH	7.8	(5.8)	-	Mod. Alkaline	
Conductivity	264	(-)	umho/cm	None CL*	Fertilizer Recommended
Nitrate-N	4	(-)	ppm**		
Phosphorus	22	(0)	ppm		
Potassium	178	(0)	ppm		
Calcium	5,855	(180)	ppm		
Magnesium	461	(50)	ppm		
Sulfur	66	(13)	ppm		
Sodium	109	(-)	ppm		
Iron					
Zinc					
Manganese					
Copper					
Boron					
Limestone Requirement					

			Detailed Salinity Test (Saturated Paste Extract)				
			pH	7.0			
			Conductivity	0.94	mmhos/cm		
			Sodium	59	ppm	2.574	meq/L
			Potassium	8	ppm	0.203	meq/L
			Calcium	100	ppm	4.992	meq/L
TKN	469	ppm	Magnesium	14	ppm	1.139	meq/L
TN	554	ppm	SAR	1.47			
Ammonium-N	3.2	ppm	SSP	28.89			

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

ProAnalysisVer. 2.19i

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: http://soiltesting.tamu.edu

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635415
Customer Sample ID: ALF-15-2-7-8 0-6"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.5	(5.8)	-	Slightly Alkaline						
Conductivity	118	(-)	umho/cm	None			CL*			Fertilizer Recommended
Nitrate-N	9	(-)	ppm**							
Phosphorus	68	(0)	ppm							
Potassium	362	(0)	ppm							
Calcium	4,965	(180)	ppm							
Magnesium	292	(50)	ppm							
Sulfur	48	(13)	ppm							
Sodium	27	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.9		
			Conductivity	1.10	mmhos/cm	
			Sodium	32	ppm	1.402 meq/L
			Potassium	32	ppm	0.812 meq/L
			Calcium	125	ppm	6.219 meq/L
TKN	1072	ppm	Magnesium	16	ppm	1.311 meq/L
TN	1332	ppm	SAR	0.72		
Ammonium-N	4.1	ppm	SSP	14.39		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Analysis Report

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635416
Customer Sample ID: ALF-15-2-7-8 6-18"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.6	(5.8)	-	Mod. Alkaline						
Conductivity	189	(-)	umho/cm	None				CL*		Fertilizer Recommended
Nitrate-N	5	(-)	ppm**							
Phosphorus	36	(0)	ppm							
Potassium	249	(0)	ppm							
Calcium	4,824	(180)	ppm							
Magnesium	334	(50)	ppm							
Sulfur	92	(13)	ppm							
Sodium	69	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)		
			pH	6.8	
			Conductivity	1.56 mmhos/cm	
			Sodium	61 ppm	2.644 meq/L
			Potassium	17 ppm	0.422 meq/L
			Calcium	225 ppm	11.211 meq/L
TKN	601	ppm	Magnesium	24 ppm	1.972 meq/L
TN	674	ppm	SAR	1.03	
Ammonium-N	3.0	ppm	SSP	16.27	

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Analysis Report

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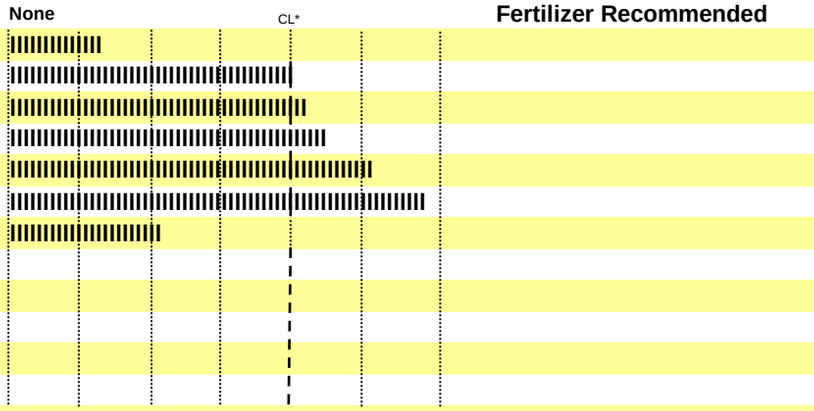
Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635417
Customer Sample ID: ALF-15-2-7-8 18-30"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow VLow Low Mod High VHigh Excess.
pH	7.6	(5.8)	-	Mod. Alkaline
Conductivity	301	(-)	umho/cm	None — Fertilizer Recommended
Nitrate-N	12	(-)	ppm**	
Phosphorus	49	(0)	ppm	
Potassium	184	(0)	ppm	
Calcium	5,144	(180)	ppm	
Magnesium	428	(50)	ppm	
Sulfur	143	(13)	ppm	
Sodium	133	(-)	ppm	
Iron				
Zinc				
Manganese				
Copper				
Boron				
Limestone Requirement				



Detailed Salinity Test (Saturated Paste Extract)			
pH	6.9		
Conductivity	1.94	mmhos/cm	
Sodium	93	ppm	4.035 meq/L
Potassium	10	ppm	0.244 meq/L
Calcium	303	ppm	15.119 meq/L
Magnesium	33	ppm	2.699 meq/L
SAR	1.35		
SSP	18.26		

TKN	489	ppm
TN	533	ppm
Ammonium-N	2.7	ppm

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635418
Customer Sample ID: ILF-3-4-5-9 0-6"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Slightly Acid						
Conductivity	105	(-)	umho/cm	None				CL*		Fertilizer Recommended
Nitrate-N	9	(-)	ppm**							
Phosphorus	32	(0)	ppm							
Potassium	385	(0)	ppm							
Calcium	3,395	(180)	ppm							
Magnesium	252	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	17	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	6.8		
			Conductivity	0.81	mmhos/cm	
			Sodium	25	ppm	1.085 meq/L
			Potassium	37	ppm	0.942 meq/L
			Calcium	113	ppm	5.651 meq/L
TKN	1524	ppm	Magnesium	16	ppm	1.285 meq/L
TN	1889	ppm	SAR	0.58		
Ammonium-N	5.0	ppm	SSP	12.10		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Analysis Report

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635419
Customer Sample ID: ILF-3-4-5-9 6-18"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Neutral						
Conductivity	103	(-)	umho/cm	None				CL*		Fertilizer Recommended
Nitrate-N	5	(-)	ppm**	III						
Phosphorus	6	(0)	ppm	IIIIIIIIII						
Potassium	248	(0)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Calcium	3,790	(180)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Magnesium	288	(50)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sulfur	30	(13)	ppm	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII						
Sodium	31	(-)	ppm	IIIIIII						
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

Detailed Salinity Test (Saturated Paste Extract)			
pH	6.8		
Conductivity	0.56	mmhos/cm	
Sodium	22	ppm	0.946 meq/L
Potassium	13	ppm	0.329 meq/L
Calcium	57	ppm	2.869 meq/L
Magnesium	9	ppm	0.753 meq/L
SAR	0.70		
SSP	19.32		

TKN	565	ppm	
TN	661	ppm	
Ammonium-N	3.4	ppm	

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

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Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Bexar County
Laboratory Number: 635421
Customer Sample ID: ILF-3-4-5-9 18-30"
Crop Grown: NO CROP GIVEN

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.7	(5.8)	-	Mod. Alkaline						
Conductivity	205	(-)	umho/cm	None			CL*			Fertilizer Recommended
Nitrate-N	3	(-)	ppm**							
Phosphorus	1	(0)	ppm							
Potassium	228	(0)	ppm							
Calcium	6,541	(180)	ppm							
Magnesium	462	(50)	ppm							
Sulfur	45	(13)	ppm							
Sodium	65	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										

			Detailed Salinity Test (Saturated Paste Extract)			
			pH	7.0		
			Conductivity	0.53	mmhos/cm	
			Sodium	36	ppm	1.585 meq/L
			Potassium	7	ppm	0.173 meq/L
			Calcium	36	ppm	1.809 meq/L
TKN	565	ppm	Magnesium	6	ppm	0.496 meq/L
TN	553	ppm	SAR	1.48		
Ammonium-N	3.3	ppm	SSP	39.02		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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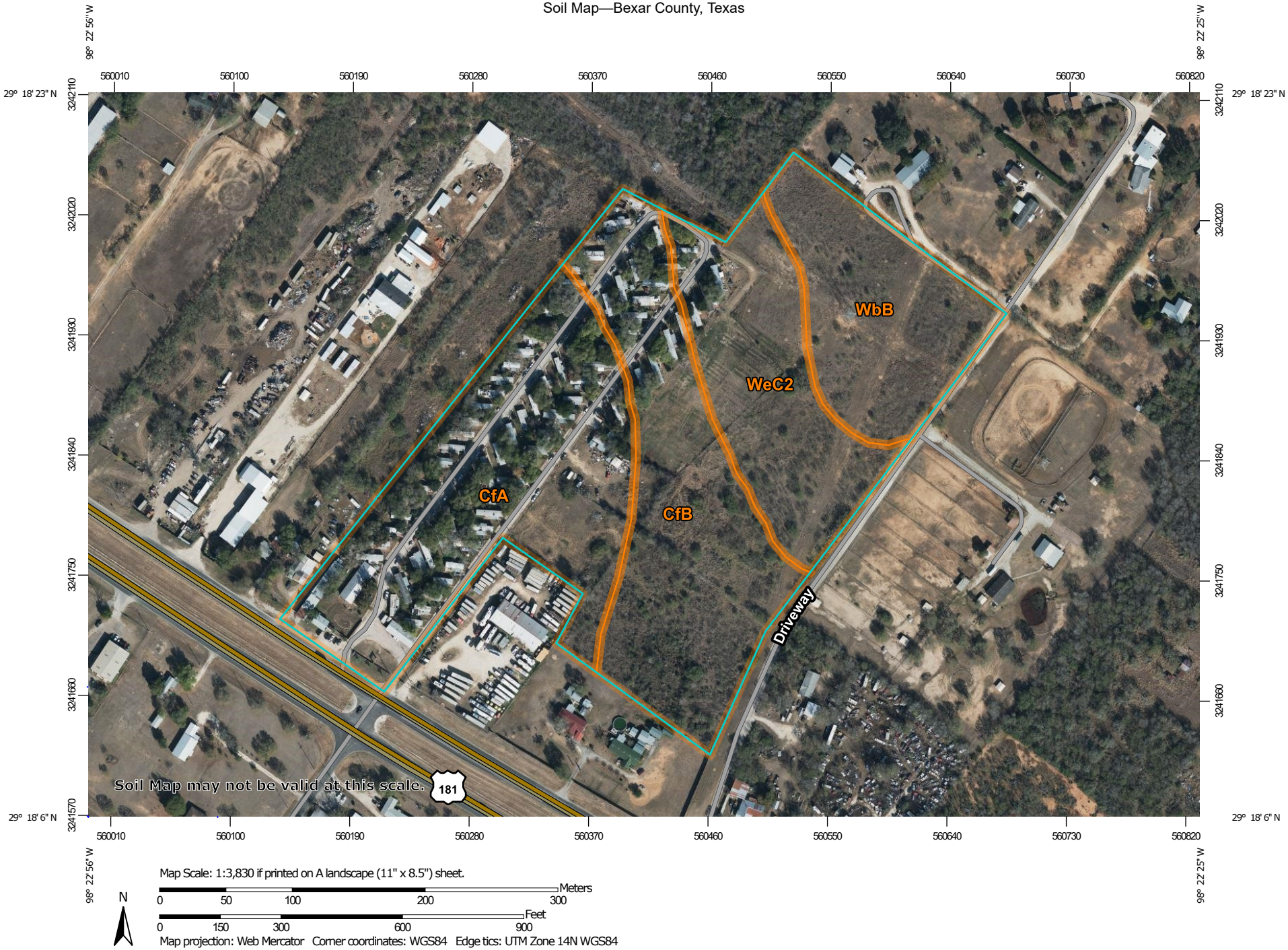
http://soiltesting.tamu.edu/webpages/calculator.html

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

Soil Map—Bexar County, Texas



Map Scale: 1:3,830 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 3, 2020—Dec 9, 2020

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
CfA	Miguel fine sandy loam, 0 to 1 percent slopes	9.9	34.4%
CfB	Miguel fine sandy loam, 1 to 3 percent slopes	8.3	28.8%
WbB	Floresville fine sandy loam, 1 to 3 percent slopes	5.1	17.5%
WeC2	Floresville fine sandy loam, 1 to 5 percent slopes, eroded	5.6	19.3%
Totals for Area of Interest		**28.9**	**100.0%**

Bexar County, Texas

CfA—Miguel fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2wt09
Elevation: 300 to 850 feet
Mean annual precipitation: 27 to 35 inches
Mean annual air temperature: 70 to 72 degrees F
Frost-free period: 270 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam
Bt - 11 to 33 inches: sandy clay
Btk - 33 to 43 inches: sandy clay loam
BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
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: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 30.0
Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Minor Components

Wilco

Percent of map unit: 2 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Leming

Percent of map unit: 2 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R083AY007TX - Lakebed
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

CfB—Miguel fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wt0c
Elevation: 200 to 850 feet
Mean annual precipitation: 27 to 35 inches
Mean annual air temperature: 70 to 72 degrees F
Frost-free period: 270 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam
Bt - 11 to 33 inches: sandy clay
Btk - 33 to 43 inches: sandy clay loam
BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
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: 15 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 30.0
Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Minor Components

Bryde

Percent of map unit: 2 percent
Landform: Low hills
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Wilco

Percent of map unit: 2 percent
Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent
Landform: Depressions
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R083AY007TX - Lakebed
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

WbB—Floresville fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2sf5h
Elevation: 240 to 790 feet
Mean annual precipitation: 26 to 32 inches
Mean annual air temperature: 70 to 74 degrees F
Frost-free period: 275 to 300 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Floresville and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floresville

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Loamy residuum weathered from sandstone

Typical profile

A - 0 to 10 inches: fine sandy loam
Bt - 10 to 30 inches: clay
Bk - 30 to 44 inches: sandy clay loam
BCk - 44 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
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: 20 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Minor Components

Miguel

Percent of map unit: 3 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Wilco

Percent of map unit: 2 percent
Landform: Paleoterraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

WeC2—Floresville fine sandy loam, 1 to 5 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2sxtr
Elevation: 240 to 790 feet
Mean annual precipitation: 26 to 32 inches
Mean annual air temperature: 70 to 74 degrees F
Frost-free period: 275 to 300 days
Farmland classification: Not prime farmland

Map Unit Composition

Floresville, eroded, and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floresville, Eroded

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum weathered from sandstone

Typical profile

A - 0 to 6 inches: fine sandy loam
Bt - 6 to 30 inches: clay
Bk - 30 to 44 inches: sandy clay loam
BCk - 44 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
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: 20 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Minor Components

Miguel

Percent of map unit: 3 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Wilco

Percent of map unit: 2 percent
Landform: Paleoterraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Attachment N

Engineering Report

BRAUN INTERTEC

Engineering Technical Report

Aztec Estates Mobile Home Park
11704 South Highway 181
San Antonio, Texas

Prepared For

Capstone Property Management, LLC

Prepared By

Braun Intertec Corporation

Project B2303494
August 7, 2024

BRAUN INTERTEC
The Science You Build On.

Table of Contents

1.0 Introduction and Background

Braun Intertec Corporation prepared this engineering technical report for the Aztec Estates Mobile Home Park (MHP) located at 11704 South US Highway 181 in San Antonio, Texas (Site). The Aztec MHP is an existing facility that has been in operation since the 1980's. The MHP consists of eighty-nine (89) structures, consisting of:

- 1 Brick House
- 3 Apartments
- 1 Beauty Shop
- 84 individual mobile home lots.

The facility currently utilizes a domestic wastewater treatment system consisting of multiple individual dual chamber septic tanks and gravity drainage from the septic tanks to multiple sub-surface irrigation fields located on an undeveloped portion of the property. The sub-surface irrigation fields are equipped with looped lateral lines that distribute pre-treated domestic wastewater to underlying soils for absorption and final treatment. The lateral lines consist of perforated 4-inch plastic or clay lines lain in excavated trenches with underlying gravel beds, or in some cases, 4-inch gravel-less HDPE chambers. Native soils cover the excavated trenches. Pre-treated wastewater enters the trenches from a series on individual septic tanks located throughout the property by gravity flow. The wastewater is then distributed through the slotted pipe or chambers to surrounding soils, where absorption and final treatment and disposal is achieved.

The domestic wastewater treatment system has not been previously permitted by the Texas Commission on Environmental Quality (TCEQ). The facility was originally permitted by Bexar County, commencing in 1975. However, as a result of a TCEQ investigation conducted at the site in 2016, the prior owner was issued an enforcement action (Docket No. 2016-1035-MWD-E) on August 8, 2018, that required the facility to obtain a TCEQ permit for the wastewater system within 365 days of the effective date of the order. The prior property owner believed that they system was exempt from TCEQ permitting, since it had been permitted through the County, and was grandfathered from current On Site Septic Systems (OSSF) regulations due to its construction date. However, the TCEQ found that repairs made to the system over time invalidated that exemption, requiring permitting. The daily average flow to the system exceeds 5,000 gallons/day, which requires permitting under the Texas Land Application (TLAP) system, as either a Class V injection well or a sub-surface irrigation system.

The property was subsequently sold to a new owner in 2021, Capstone Property Management, LLC (Capstone, CN606026169, RN106656671). As the new owner, discussions were held with the TCEQ regarding how to permit the facility. Originally, Capstone was told that this facility could be permitted as a Class V injection well. The application for a Class V injection well was submitted on August 21, 2023,

and subsequently withdrawn on February 12, 2024 in order to remove one of the existing sub-surface application areas serving 1 apartment that was determined based on tax records to be not on the owner's property. Wastewater discharges from this apartment were connected to one of the existing large sub-surface irrigation areas. The intent is to resubmit the revised TLAP/Class V injection well permit application by August 9, 2024. The system currently operates based on gravity drainage, but the owner is amenable to installing pumps in several of the septic tanks to achieve even distribution, if required by the TCEQ. Therefore, this report was developed in general conformance with 30 Texas Administrative Code (TAC) § 309.20 (a) and (b) to support the land application of sewage effluent from the development.

1.1 Site Information

Site information was obtained from the property owner and from observations made during the Site reconnaissance, a review of readily available documents and online information sources and from site investigations performed.

1.2 Site Location

A United States Geological Survey (USGS) Topographic Map is attached as **Attachment A**. The Site is comprised of seven platted parcels and a portion of an eighth parcel. Relevant Site information obtained from the Bexar County Appraisal District website and from other sources is summarized below.

Address:	11704 South US Highway 181 (approx. 28 ac.) 11740 & 11770 South US Highway 181 (approx. 2.3 ac)
City:	San Antonio
County:	Bexar
State:	Texas
Latitude:	29°18'14" N
Longitude:	98°22'41" W
Size:	~30 acres

2.0 Physical Setting

The purpose of the physical setting review is to provide information about the physical setting of the Site in order to aid in the evaluation of both physical characteristics of the Site and additional attribute data, which is useful in assessing the impact of migration of contaminants and subsequent impact on soils and/or groundwater.

2.1 Geology

According to the Geologic Atlas of Texas San Antonio Sheet (1974), the underlying geologic unit at the Site is the Wilcox Group which consists of mostly mudstones and various amounts of sandstone, lignite, glauconitic sands, and conglomerate. The thickness of the Wilcox Group ranges from 440 feet to 1,200 feet and forms part of the Carrizo-Wilcox Aquifer. According to the Texas Water Development Board (TWDB) Groundwater Viewer, the Site is in the outcropping portion of the Carrizo-Wilcox Aquifer (TWDB 2023). Water wells within a 1-mile radius of the Site are producing water from depths ranging from 156 to 694 feet below ground surface (bgs). The Carrizo-Wilcox Aquifer is a major aquifer extending parallel to the Gulf Coast from Louisiana to the border of Mexico and is primarily composed of sand locally interbedded with gravel, silt, clay, and lignite. The Carrizo-Wilcox Aquifer reaches 3,000 feet in thickness, however, much of the water is brackish and the freshwater saturated thickness of the sand's averages 670 feet.

2.2 Soil

The United States Department of Agriculture (USDA) National Resource Conservation Service (NRCS) website was reviewed to obtain soil information regarding the Site. According to the NRCS, the soil at the Site consists of fine sandy loam of the Miguel unit and Floresville Unit.

3.0 Groundwater Quality

San Antonio Water System (SAWS) utilizes primarily groundwater resources to provide potable water to the City of San Antonio and the surrounding area, including the Site. The area is also under the jurisdiction of the South-Central Texas Regional Water Planning Area, Groundwater Management Area 13, and the Edwards Aquifer Authority Groundwater Conservation District. The majority of domestic raw groundwater supply provided by SAWS comes from wells completed in the Edwards Aquifer in the northwestern portion of Bexar County.

SAWS does not provide area specific water quality data, but it does provide the highest levels of contaminants recorded at different sites in an annual water quality report. In a 2023 Water Quality Report, SAWS stated that no Escherichia coli bacteria were observed in the sampled drinking water in their distribution systems. The highest nitrate concentration observed in their monitored water plants was 2.51 parts per million (ppm) while the average chlorine concentration observed in their water distribution system was 1.478 ppm; total dissolved solids (TDS), sulfates, and pH data were not provided in the Water Quality Report.

3.1 Water Wells

The TWDB Groundwater Viewer, Texas Commission of Environmental Quality (TCEQ) Water Well Report Viewer, and the USGS National Water Information System (NWIS) Mapper were reviewed to identify water wells within a 1-mile radius of the Site in conjunction with the Map and Well Information provided in Worksheet 3, Section 6. Twenty-seven water wells were identified: two plugged water wells (formally located at the Site), two irrigation wells, one water supply well, one municipal well, and twenty-one domestic-use wells; of these 27 wells, 12 are located within a 0.5-mile radius of the Site.

Water quality information for these wells was not available for review. The identified wells were drilled to depths ranging from 156 to 694 feet bgs and were completed in the Wilcox Group. Limited boring log information showed that the underlying geology consisted of interbeds of shale, clay, and sand. The static water levels for the wells ranged from 85 to 160 feet bgs, which are elevations above their respected screened intervals indicating semi-confined to confined conditions. The yields of the identified wells were recorded ranging from 20 to 80 gallons per minute (GPM).

No monitoring wells were identified within 1-mile radius of the Site during the review. Pre-operational baseline groundwater quality data was not available.

3.2 Groundwater Resources

Groundwater resources in the vicinity of the Site are primarily located in the Edwards Aquifer that underlies the Carrizo-Wilcox Aquifer. In the San Antonio region, the Edwards Limestone attains a thickness of approximately 450 to 500 feet, of which about 450 feet make up the Edwards Aquifer that dips steeply toward the Gulf of Mexico. The production zone of the Edwards Aquifer and the majority of SAWS water supply wells are located in the northwestern portion of Bexar County due to saltwater intrusion into the Edwards Aquifer in the southeastern part of the county. The Carrizo-Wilcox Aquifer production zone in the San Antonio region is generally of poorer water quality.

4.0 Agricultural Practices

No agricultural crops are produced as a result of land application of domestic wastewater from the site. The area where land application occurs is natural open grassland.

4.1 Sub-Surface Irrigation System

As shown in **Attachment B**, the Site consists of three active lateral fields (LF) that receive effluent from the mobile home park (LF 1, LF 2 and LF 8). These existing lateral fields consist of gravity drainage subsurface application of domestic wastewater through slotted plastic and/or clay pipe, some equipped with additional gravel-less chambers, bedded in pea gravel, and covered with native soils. Currently, the wastewater is conveyed to the fields via gravity flow from a series of septic tanks located throughout the mobile home park.

The dimensions of each field are provided below:

Lateral Field 1 – LF 1 has dimensions of approximately 220 feet by 400 feet by 2.5 feet (L x W x D), with a footprint of 88,000 square feet (ft^2), or 2 acres. The field has 1-foot wide trenches, located every 10 feet. The laterals are looped. There are a total of six septic tanks draining into LF 1, varying in size from 2,000 to 3,000 gallons.

Lateral Field 2 – LF 2 has dimensions of approximately 85 feet by 75 feet by 4.5 feet (L x W x D), with a footprint of 6,375 ft^2, or 0.15 acre. The field has 1-foot wide trenches, located every 10 feet. The laterals are looped. There are a total of four septic tanks draining into LF 2, varying in size from 2,000 to 5,000 gallons.

The apartments, brick house and mobile home units drain to either Lateral Field 1 or 2.

Lateral Field 8 – LF 8 has dimensions of 20 feet by 21 feet in one leg and 10 feet by 12 feet in the second leg, for a total footprint of 540 ft^2. The depth of LF 8 has not been determined but based on the depth of the other lateral fields at the site, it is expected to be between 2 to 4 feet in depth. The laterals are not looped, since LF 8 serves only one unit – the onsite Beauty Shop, which is not a residence.

A third area, Lateral Field 3 can serve as an overflow for LF 2 but has not been equipped with lateral piping and are currently not receiving any waste streams. Several other inactive lateral fields exist at the site which no longer receive any wastewater flow.

The location of the lateral fields, configuration within each field, and the extent of lateral looping was confirmed through exploratory excavations conducted on June 6, 2023, through June 9, 2023.

There is a total of 11,763 ft^2 of trenches laid in the beds. Each 1-foot wide trench absorbs 1 foot into each wall, making 3 ft^2 of absorption for every 1 linear foot of trench. The total area of drainage is 35,289 ft^2 of absorption. There are three active beds, for a total of 117,625 ft^2 of absorption.

The soil in the lateral fields consists of sandy and silty loams of the Miguel and Floresville series, which are well drained, slowly permeable soils. Percolation studies were performed in LF 1 and LF 2. Two 1 by 1 by 1 cubic foot (ft^3) trenches were excavated, and one gallon of water was added to each trench. The starting water surface was noted. After 1 hour, the drop in water level was recorded to calculate percolation rate in each field, as follows:

- LF 1 – 5-inch drop, or 0.42 ft^3/hr. = 12 minutes per inch
  - 0.42 X 24 X 7.48 = 75.40 gal/ft^3
- LF 2 – 4-inch drop, or 0.33 ft^3/hr. = 15 minutes per inch
  - 0.33 X 24 X 7.48 = 59.24 gal/ft^3

These measured values are consistent with percolation rates for well drained sandy/silty soils. In accordance with 30 TAC §309.20 (c), percolation systems should be limited to sites having soil textures suitable for sustaining a rapid intake rate. Percolation dosing sites shall be limited to soils classified as sands, loamy sands, or sandy loams. However, per the requirements for domestic Class V sub-surface irrigation systems, the application rate will be limited to 0.1 gal/ft^2/day.

The total daily average flow for all of the residences, based on actual water meter data for calendar year 2023 was 8,741 gallons/day for LF 1 and LF 2 combined. No flow data is metered for the onsite commercial beauty shop. This wastewater flows to a separate dedicated individual sub-surface irrigation area L8. The flow rate for the Beauty Shop is estimated to be an average of 50 gallons/day.

All of the mobile homes are equipped with water savings devices and are metered separately to provide accurate flow rates. No changes have been made to the system since original construction apart from routine maintenance and repair, with the exception of LF 2. The mobile home park has had the same number of units for the past 41 years, since constructed in 1983. There are no future plans to increase development of the property or add additional units.

In 2021, LF 2 was modified to include Infiltrator gravel-less distribution chambers. The chambers allow for a smaller surface area to be used for more efficient distribution of wastewater to surrounding soils.

Seven (7) trenches of chambers, eighty (80) feet in length, located trenches ten (10) feet apart. The perforated plastic pipes are lain on top of the chambers (see Figures 1 and 2 below). The lateral pipes are looped. Even though the mobile homes are equipped with water savings devices, since the chambers were placed in the existing trenches and used the same existing perforated pipe, no request is being made to reduce the required irrigation area for this field. The Infiltrator gravel-less chamber system is approved by the TCEQ for OSSFs with daily flow rates less than 5,000 gallons/day. The gravel-less chamber systems are designed to work without pumps, and currently, all flow is via gravity.

Figure 1 – Example of Interceptor Gravel-less Chamber

Figure 2 – Installation Configuration for Laterals and Chambers

Actual flow data for calendar year 2023 indicates a daily average flow rate to 5,491 gallons/day to LF 1 and 3,250 gallons/day to LF 2. A similar system upgrade is planned for LF 1 to install gravel-less chambers underneath the existing perforated lateral lines.

These percolation rates, along with lateral field areas and historical effluent flow rates, were used to demonstrate that the existing lateral fields in use are adequate for the current use and meet regulatory requirements for sub-surface application systems for domestic wastes.

Interviews with the site operator coupled with Site observations made on several occasions indicated that there was no standing water or areas of ponding, or observed stressed vegetation in the area where the lateral fields are located. This visual evidence indicates that the lateral fields are draining well, and all wastewater is contained within septic tanks, wastewater collection lines and laterals, with no surface impacts.

4.2 Design Analysis

An analysis of flow rates of each mobile home residence was performed using May of 2023 to April of 2024 water meter data. The water meter data was used to develop an average wastewater generation and total daily wastewater rates per residence. To be conservative, a 1:1 ratio of water used to wastewater generated was assumed.

Actual flow data for calendar year 2023 indicates a daily average flow rate to 5,491 gallons/day to LF1 and 3,250 gallons/day to LF2, for a total daily flow rate of 8,741 gallons/day. LF 8 is a self-contained unit that drains to a separate field with a daily wastewater rate of 50 gpd.

Design Sub-Surface Irrigation Area:

Daily Flow Rate = 8,741 gpd

Irrigation Area Need = 8,741 gpd/0.1 gal/sq ft = 87,410 sq ft = **2.01 acres.**

As designed, the current sub-surface irrigation system actual available lateral field area is 94,915 ft^2 or **2.18 acres**. Therefore, the system as currently configured, has adequate land for the required application rate.

4.2.1 Hydraulic Application Rate

The application rate for active lateral field was assumed to be limited to 0.1 gpd/ft^2.

Available septic system design guidance indicated acceptable application rates for septic leach fields, as shown below.

Lateral Fields 1 and 2 – Total area = 94,915 ft^2; daily flow rate is 8,741 gallons/day. Hydraulic loading = (8,741 gallons/day/94,915 ft^2) = 0.1 gallons/day/ft^2, which is the acceptable limit for application rate. This demonstrates that LFs 1 and 2 are adequately sized for the wastewater routed to this fields.

Lateral Field 8 – Total area = 540 ft^2; daily flow rate 50 gallons/day. Hydraulic loading = (50 gallons/day/540 ft^2) = 0.1 gallons/day/ft^2, which is the acceptable limit for application rate. This demonstrates that LF 8 is adequately sized for the wastewater routed to this field.

4.2.2 Effluent Storage

Effluent storage is provided by the various septic tanks located throughout the Site. The total storage capacity for all septic tanks is 36,500 gallons, with the minimum tank size ranging from 1,000 gallons to 5,000 gallons each. Therefore, adequate pre-treatment capacity is provided by the septic tanks. The septic tanks are dual-chambered and water that reaches a certain level in the clear water side flows by gravity to the sub-surface application sites. The total daily average flow for the entire Site is 8,741 gallons/day and the total storage capacity is 4.2 days. Therefore, more than 3 days of wet weather storage capacity is provided by the system. Additional storage capacity exists in the wastewater collection lines and individual lateral field piping. Therefore, adequate equalization capacity also exists for short term peak flow rates.

5.0 Conclusions

Braun Intertec has prepared this Engineering Technical Report in accordance with Title 30 TAC 309.20 (a) and (b), for the Aztec Estates Mobile Home Park located at 11704 South US Highway 181, San Antonio, Texas, demonstrating that the existing septic system is adequately designed and suitable for the community served. The Site has existed as currently configured for the past 40+ years without major modifications or alterations beyond normal pipeline maintenance and replacement, and no expansions of the Site are anticipated in the near future. Additional lateral fields do exist at the Site, some of which contain lateral drain pipes and others do not, that could be modified and put into use if needed to accommodate future expansion. Overall, the available land for disposal of sanitary wastewater is adequate for the number of units served on the Site.

No improvements, modifications, or additions are recommended at this time, apart from normal operation and maintenance of land application systems for domestic wastewater.

The request for permitting this Site is a result of the TCEQ enforcement order requiring the Site to obtain a permit through the TCEQ due to the fact that the combined daily flow rate to the 2 large sub-surface application areas is greater than 5,000 gallons/day.

Appendix A

References

References

San Antonio Water System, 2023 Water Quality Report.
http://www.saws.org/wp-content/uploads/2023/06/252729.0150018_SAWS_Main.pdf

Texas Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet, 1974.

Texas Commission of Environmental Quality, Water Well Report Viewer.
https://www.tceq.texas.gov/gis/waterwellview.html

Texas Water Development Board, Groundwater Data Viewer, 2023.
https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer

United States Geological Survey, National Water Information System Mapper.
https://www.usgs.gov/tools/national-water-information-system-nwis-mapper

Attachment A

USGS Topographic Map

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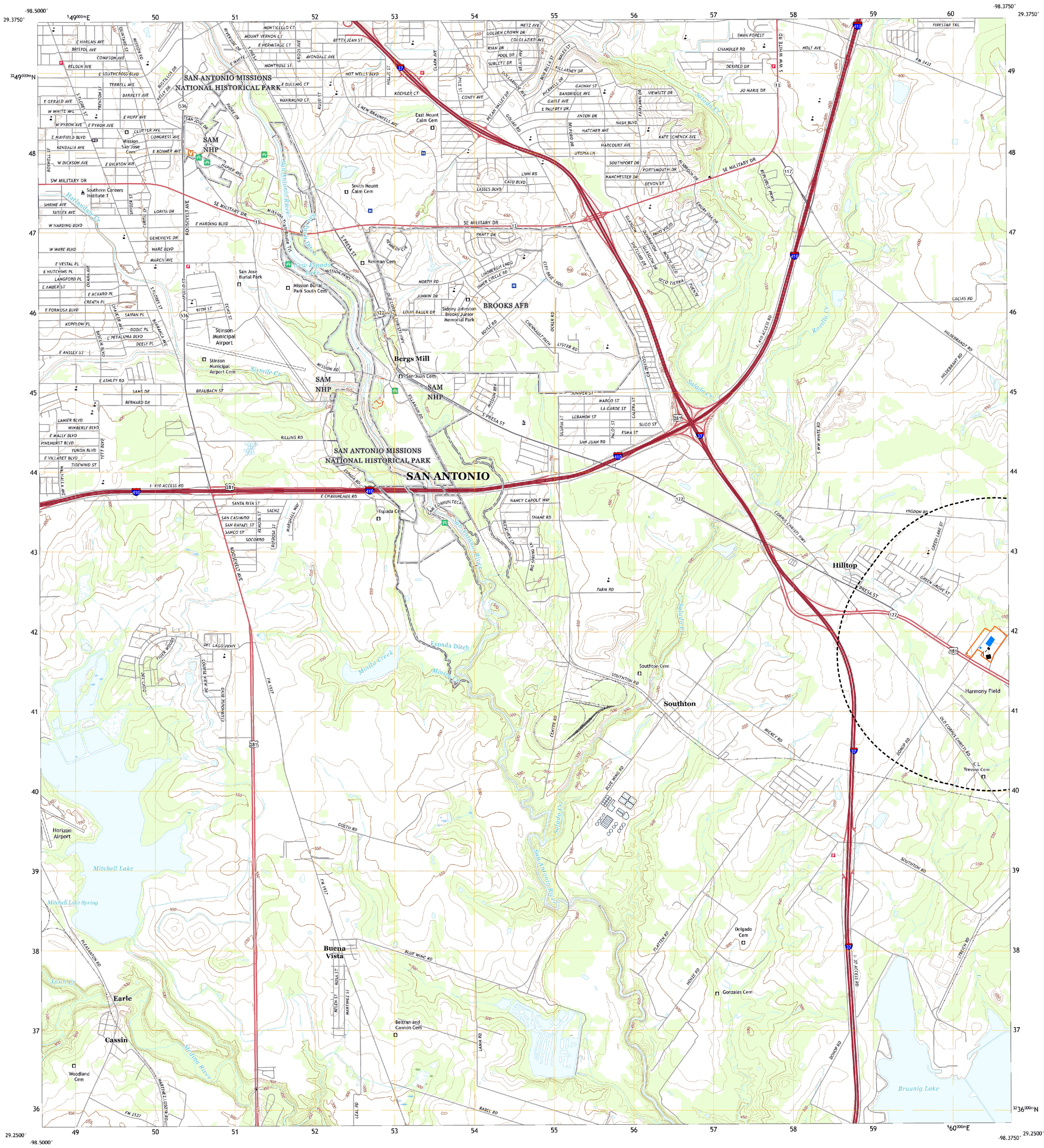
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

SOUTHTON QUADRANGLE
TEXAS - BEXAR COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads..... U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2021
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
4°6′ 73 MILS
0°17′ 5 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
Grid Zone Designation 14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Antonio West
2 San Antonio East
3 Martinez
4 Terrell Wells
5 Elmendorf
6 Thelma
7 Losoya
8 Saspamco
ADJOINING QUADRANGLES

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

SOUTHTON, TX
2022

Legend
- Approximate Site Boundary
- One Mile Project Radius
- Active Lateral Field
- Inactive Lateral Field

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Project No: B2303494
Drawing No: AttE_USGS_Topo
Drawn By: JPM
Date Drawn: 9/26/2023
Checked By: JK
Last Modified: 7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic Map

Attachment A-1

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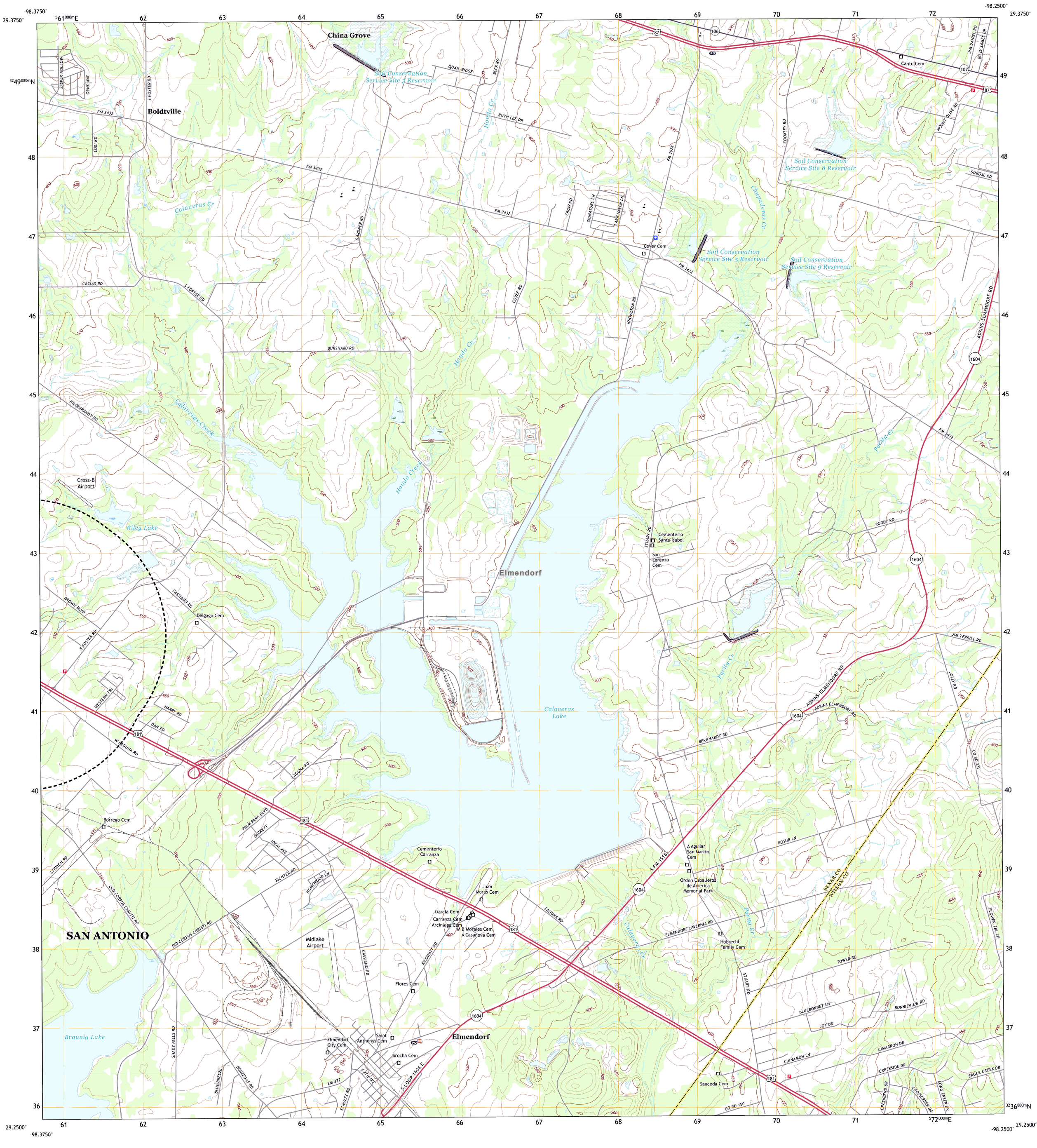
USGS science for a changing world

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

The National Map US Topo

ELMENDORF QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14R

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Imagery.....NAIP, September 2016 - November 2016
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Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands Inventory Not Available

MN
GN
4°2' 72 MILS
0°20' 6 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NT
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Antonio East
2 Martinez
3 Saint Hedwig
4 Southton
5 La Vernia SW
6 Losoya
7 Saspamco
8 Floresville
ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

ELMENDORF, TX
2022

Legend
One Mile Project Radius

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Checked By: JK
Last Modified: 7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic Map

Attachment A-2

Attachment B

Site Map

BRAUN INTERTEC

- Approximate Site Boundary
- Bexar County Parcels
- Pump
- Septic Tank
- Septic Tank/Pump
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8

TWDB Well Reports

- Withdrawal of Water

N

0 90 180 Feet

1" = 180 Feet

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Drawing Information

Project No: B2303494

Drawing No: AttB-H_SiteMap

Drawn By:	JPM
Date Drawn:	6/7/2023
Checked By:	EE
Last Modified:	7/31/2024

Project Information

Aztec Estates Mobile Home Park

11704 South US Highway 181

San Antonio, Texas

Site Map

Attachment B

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September 6,2024 Project B2303494

Ms. Rachel Ellis
Applications Review and Processing Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
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Rachel.Ellis@tceq.texas.gov

Re: Response to Administrative Notice of Deficiency
Capstone Property Management, LLC (CN606026169)
11704 South U.S. Highway 181
San Antonio, Texas (RN106656671)
TPDES Permit No.: WQ0016597001

Dear Ms. Ellis:

Braun Intertec Corporation, on behalf of Capstone Property Management, LLC, has prepared this response to the Texas Commission on Environmental Quality (TCEQ) Administrative Notice of Deficiency (NOD), dated August 26, 2024, for the Permit No. WQ0016597001 application for the Aztec Estates Mobile Home Park (MHP) facility located at 11704 South U.S. Highway 181 in San Antonio, Bexar County, Texas (Site).

For reference, we have presented TCEQ comments below in *italics,* with our response thereafter.

1. *Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English and Spanish. Please provide the PLS in a* ***Microsoft Word document.***

Response
The Plain Language Summary has been updated in English and Spanish and are being submitted as a separate attachment in Microsoft Word.

2. *Landowner electronic labels: Please list each name and address to be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Each entity must be blocked and space consecutively. The format is required by the Postal Service for machine readability. In addition, do not include the numbers used to cross-reference the landowners on the landowners' map. The landowner's labels should be the name and address only.* ***Please provide electronic labels via MS Word document typed in format mentioned and as example seen below. (Avery label 5160 format 3 columns across, 10 columns down for a total of 30 labels per page.)***

Response
The landowner labels have been updated and are being submitted as a separate attachment in Microsoft Word.

3. *The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.*

Response
The NORI was reviewed and there was one error noted. Tracked changes are shown below.

Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016597001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of ~~87,000~~ 8,741 gallons per day via irrigation of 2.18 of acres of land. The facility and disposal area will be located at 11704 South U.S. Highway 181, in the city of San Antonio, in Bexar County, Texas 78223. TCEQ received this application on August 9, 2024. The permit application will be available for viewing and copying at Elmendorf Community Library, front desk, 203 Bexar Avenue, Elmendorf, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.379166,29.302777&level=18

4. *The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.*

Response
A translated Spanish NORI has been prepared and is being submitted as a separate attachment in Microsoft Word.

We appreciate your assistance in review of this application. If you have any questions regarding the application, or require additional information, please contact Ms. Janice King (JaKing@braunintertec.com) at 512.221.8902 or Ms. Gabiela Fitzgerald (gfitzgerald@braunintertec.com) at 832.610.9024.

Sincerely,

BRAUN INTERTEC CORPORATION

Gabriela Fitzgerald
Senior Manager, Project Consultant

Janice King
Principal Consultant

c: Mr. John M. Harlan, Capstone Property Management, LLC